Making our world more productive
Our Mission, Vision and Values

Our Mission
We live our mission of making our world more productive every day. Through our high-quality solutions, technologies and services we are making our customers more successful and helping to sustain and protect our planet.

Our Vision
We are committed to fulfilling our vision to be the best performing global industrial gases and engineering company, where our people deliver innovative and sustainable solutions for our customers in a connected world.

Our Values
- Safety
- Integrity
- Inclusion
- Accountability
- Community
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GRI References
This report has been prepared in Accordance with GRI Standards: Core Option. GRI Standards are referenced throughout and an Index is provided on page 102.

Forward Looking Statement
This document contains “forward-looking statements” within the meaning of the Private Securities Litigation Reform Act of 1995. These forward-looking statements are identified by terms and phrases such as: anticipate, believe, intend, estimate, expect, continue, should, could, may, plan, project, predict, will, potential, forecast, and similar expressions. They are based on management’s reasonable expectations and assumptions as of the date the statements are made but involve risks and uncertainties. These risks and uncertainties include, without limitation: the performance of stock markets generally; developments in worldwide and national economies and other international events and circumstances, including trade conflicts and tariffs; changes in foreign currencies and in interest rates; the cost and availability of electric power, natural gas and other raw materials; the ability to achieve price increases to offset cost increases; catastrophic events including natural disasters, epidemics, pandemics, such as COVID-19, and acts of war and terrorism; the ability to attract, hire, and retain qualified personnel; the impact of changes in financial accounting standards; the impact of changes in pension plan liabilities; the impact of tax, environmental, healthcare and other legislation and government regulation in jurisdictions in which the company operates; the cost and outcomes of investigations, litigation and regulatory proceedings; the impact of potential unusual or non-recurring items; continued timely development and market acceptance of new products and applications; the impact of competitive products and pricing, future financial and operating performance of major customers and industries served; the impact of information technology system failures, network disruptions and breaches in data security; and the effectiveness and speed of integrating new acquisitions into the business. These risks and uncertainties may cause actual future results or circumstances to differ materially from accounting principles generally accepted in the United States of America, International Financial Reporting Standards or adjusted projections, estimates or other forward-looking statements.

Linde plc assumes no obligation to update or provide revisions to any forward-looking statement in response to changing circumstances. The above listed risks and uncertainties are further described in Item 1A. Risk Factors in Linde plc’s Form 10-K for the fiscal year ended December 31, 2019 filed with the SEC on March 2, 2020 and in Item 1A. of Linde plc’s Form 10-Q for the period ending March 31, 2020 filed with the SEC on May 7, 2020, which should be reviewed carefully. Please consider Linde plc’s forward-looking statements in light of those risks.
Dear Stakeholder,

At Linde, environmental and social responsibility are deeply rooted in the way we do business globally. With a strong presence in all key geographies, Linde has a diverse and balanced global portfolio and a sound capital structure which allows us to pursue quality opportunities for future growth.

I am convinced that our unwavering commitment to our values of safety, inclusion, integrity, accountability and community, combined with a disciplined and resilient business model and our talented employees around the world, will ensure our success well into the future.

ESG Leadership

Reflecting over the past year, I am very proud of our 80,000 employees who delivered exceptional results and enabled us to become the only chemical company named to the Dow Jones Sustainability Index for 17 consecutive years. In 2019, we helped our customers avoid 100 million MT of CO2 emissions and enabled an estimated 290 million people to have access to safe drinking water through our environmental technologies and our gases portfolio. With respect to our commitment to sustainability through resource efficiency, 35 percent of the total energy procured by Linde operations worldwide was sourced from low-carbon and renewable power - in the UK and Brazil that share was almost 100 percent.

A New Reality

As I write this letter, our world is facing an unprecedented global health crisis and related social and economic distress. The COVID-19 pandemic requires us to deal with a new reality. In addition to the social and health consequences, large-scale economic uncertainty has exposed systemic inequity in our society. At Linde, we value inclusion which means we are committed to showing up, and standing up, for each other within Linde and in our communities – now and always.

Making a Difference

In the years to come, Linde will further our commitment to Sustainability through our new 10-year Climate Change targets. Our commitments include making important investments in technology and innovation for decarbonization and lowering our greenhouse gas emissions intensity by 35 percent by 2028. Hydrogen will play a key role in achieving the decarbonization targets. With leading positions and technologies in the fields of hydrogen mobility, clean hydrogen and carbon capture, Linde is uniquely positioned to support customers and industry partners in the transition to a clean hydrogen economy.

Linde will continue to seek solutions that meet some of the world’s greatest challenges. This is how we live our mission of making our world more productive – today, tomorrow and into the future. This year’s report illustrates some of the achievements that demonstrate our ongoing commitment to this mission.

Stay Safe!

Steve Angel
Chief Executive Officer
Linde is a company in the business of resource transformation in a world that is dealing with climate change. Below are our 2019 actual results as reported by Linde plc entities. We demonstrate that a subset of Linde applications allow our customers or their end-users to avoid more than twice the greenhouse gas (GHG) emissions of all Linde operations. In 2019, total GHG emissions were 37.5 million MT CO₂e, versus 100 million MT CO₂e avoided by our customers or end-users, from several applications shown below - 2.7x the GHG benefit created than depleted.

Values are based on 2019 reported and consolidated results from Linde plc subsidiaries following Linde plc reporting standards.

CO₂e = CO₂ equivalents
Dear Neighbor,

This report is being issued at a time of unprecedented disruption to our natural and human world. We can no longer make assumptions that a right we take for granted – our right to breathe clean air or even our right to breathe at all – is freely available to all of us. This is a time when we at Linde must reflect on our values and what we stand for.

At Linde, our standards, core values and culture celebrate our differences and invite each of us to contribute to the whole. Linde’s employees live and work in dozens of ecosystems, thousands of communities and nearly 100 countries. Each of our identities are forged in combinations of different languages and beliefs; different racial, gender and ethnic backgrounds; and different social and economic status. One Linde respects and values each identity and its contribution to the company’s success.

The celebration of our differences and our local communities is embedded in Linde’s business model. Because our products are expensive to transport, we reduce the distance they travel. We concentrate on building network density. We make large, long-term capital investments in local communities and build our businesses around those sites. We hire local talent as employees; we cooperate with local customers, local contractors and suppliers; we pay taxes locally; we volunteer locally. This local business model helps to insulate Linde from potential supply chain disruptions that could come from global challenges such as pandemics or climate change.

Linde’s business resilience is built on this diversity – on efforts made by our employees who are part of their local communities.

We also rise as one to meet global challenges. With this report, we launch our Sustainable Development Targets that run from 2018 to 2028 (SD 2028 targets). These embrace our business model and our values. They respond to expectations from investors, employees and local communities. They are aligned with investor expectations as expressed in the Task Force on Climate-related Financial Disclosures (TCFD) and the Sustainability Accounting Standard (SASB Standard) for the Chemicals industry. They help deliver on several of the Sustainable Development Goals (SDGs) introduced by the UN to eradicate poverty, protect the planet and guarantee prosperity for all by 2030. They empower us to deliver measurable positive sustainability impact.

The report first describes Linde’s business model and how we deliver environmental, social and economic value. The chapter on Linde’s SD 2028 targets describes our process to define relevant issues, indicators and targets. Among these, Climate Change is a focus and the subject of the following chapter. Next, we report on Linde’s performance towards its new SD 2028 targets. This is followed by a chapter on governance of non-financial issues and one on stakeholder engagement. This is followed by additional data and information on sustainability issues of interest to multiple stakeholder groups. Assurance Statements are provided for several environmental and social KPIs and a GRI Standards Index Content is included.

We remain committed to our relationships with our key stakeholders, and will work hard to continue to meet and exceed your expectations.

Yours sincerely,

Riva Krut
Vice President & Chief Sustainability Officer
Sustainable Development

Best-in-class safety performance
4x better than U.S. Occupational Health and Safety Administration industrial average for lost workday case rate

Several applications enabled
2.7x more GHG emissions to be avoided than were emitted in all of the company’s operations

Built the world’s first hydrogen station for fuel cell-powered passenger trains

Operate world’s first commercial hydrogen storage cavern

Leading H₂ electrolysis operating experience
40 MW, 80 units

300,000 children and students in our communities benefitted from employee community engagement projects

An industry leader in diversity & inclusion
About Linde

Vision, Mission, Values

Linde’s Sustainable Development Report (SDR) demonstrates how we deliver on our mission of Making our World More Productive. We live our mission every day by providing high-quality solutions, technologies and services that are making our customers more successful and helping to sustain and protect our planet.

Our Vision is to be the best performing global industrial gases and engineering company, where our people deliver innovative and sustainable solutions for our customers in a connected world.

Linde’s Values are safety, integrity, community, inclusion and accountability.

Ethics and Integrity

Responsible corporate governance is a key prerequisite for Linde’s business success. This means ensuring compliance with the law, rules and regulations, and voluntary commitments. Linde strives continuously to achieve its goals ethically and with the highest integrity. Interaction between management, employees and Linde’s business partners is expected to be transparent and respectful, consistent with our Code of Business Integrity (CBI). Linde’s governance of Ethics and Integrity is described in Management approach for Material Economic Aspects, page 41.

Organization

Linde plc is a public limited company formed under the laws of Ireland with its principal offices in the United Kingdom. Linde plc was formed in 2017 in accordance with the requirements of the business combination agreement, dated June 1, 2017, as amended, among Linde plc, Praxair, Inc. ("Praxair") and Linde Aktiengesellschaft ("Linde GmbH"). Effective October 31, 2018, the business combination was completed, and Linde plc is comprised of the businesses of Praxair and Linde GmbH (hereinafter, the combined group will be referred to as “the company” or “Linde,” the legacy companies will be referred to as “Linde GmbH” and “Praxair”). Additional information is provided on our website within our 2019 regulatory filings at: https://investors.linde.com/en/regulatory-filings.

Linde is a leading global industrial gases and engineering company with 2019 sales of USD 28 billion. The reporting currency is the US dollar ("USD"). All amounts are shown in US dollars ($), unless stated otherwise. The company employs approximately 80,000 people globally and serves customers in 95 countries worldwide.

Approximately 83 percent of Linde’s 2019 sales were generated from industrial gases operations in three geographic segments – Americas; Europe, Middle East and Africa [EMEA]; and Asia Pacific [APAC]. The remaining 17 percent is related primarily to the Engineering segment, and to a lesser extent, other operating segments (including the Praxair Surface Technologies business, a wholly owned subsidiary).

Business Model

Linde’s business model is to transform air and other process gases into applications that, in many cases, help customers become more energy- and resource-efficient or provide social benefits.

Linde’s industrial gas processes transform natural resources into environmental and social value and impact; see the Business Model table, page 9. Principal business operations are to make atmospheric gases from raw materials in the air and electricity, and process gases, principally hydrogen, from natural gas or industry by-products, together with steam. The outputs of these processes, or our product applications, serve multiple end-markets. More than sixty-five percent of sales are underpinned by fixed fees or resilient end-markets (e.g., healthcare, food and beverage, electronics, as well as portions of sales to chemicals & refining, metals and manufacturing), which provides protection from market swings.

Many of Linde’s applications bring environmental, economic and social benefits to our customers, communities and the planet. Our “sustainability portfolio” applications are shown in the “Outputs” rows, by end-market. The benefits that they enable are shown in the “Outcomes” rows, by gas.

For example, Linde’s oxygen helps steelmakers save energy, allows sustainable aquaculture to thrive and serves hundreds of thousands of patients needing respiratory oxygen. Its hydrogen helps oil refiners to make ultra-low sulfur diesel (ULSD) which helps improve...
## Business Model

### Inputs

<table>
<thead>
<tr>
<th>Raw Materials</th>
<th>Air and Electricity</th>
<th>Natural Gas or Industry Byproducts, Water (Steam)</th>
<th>Industry Byproduct, Natural Wells</th>
<th>Byproduct from Natural Gas Processing</th>
<th>Metals &amp; Metalloids</th>
</tr>
</thead>
</table>

### Activities

<table>
<thead>
<tr>
<th>PRODUCTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>O₂</td>
</tr>
</tbody>
</table>

### Business Operations

<table>
<thead>
<tr>
<th>ATMOSPHERIC GASES</th>
<th>PROCESS &amp; SPEC GASES</th>
<th>OTHER</th>
</tr>
</thead>
</table>

### 2019 End Markets (% revenue)

<table>
<thead>
<tr>
<th>Metals (13%)</th>
<th>Chemicals &amp; Energy (19%)</th>
<th>Food &amp; Beverage (8%)</th>
<th>Healthcare (18%)</th>
<th>Electronics (9%)</th>
<th>Manufacturing &amp; Aerospace (22%)</th>
<th>Other (11%)</th>
</tr>
</thead>
</table>

### Examples of Significant Product Applications

<table>
<thead>
<tr>
<th>Examples of environmental, economic and social benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Productivity, product quality</td>
</tr>
<tr>
<td>Human health and safety</td>
</tr>
<tr>
<td>Fewer emissions of NOx, SO₂, VOCs</td>
</tr>
<tr>
<td>More energy-efficient industrial production</td>
</tr>
<tr>
<td>Safety</td>
</tr>
<tr>
<td>Fewer GHG emissions</td>
</tr>
<tr>
<td>More energy efficiency</td>
</tr>
<tr>
<td>Fewer black carbon and GHG emissions</td>
</tr>
<tr>
<td>Cleaner manufacturing</td>
</tr>
<tr>
<td>Fewer environmental releases</td>
</tr>
<tr>
<td>Improved product durability, Essential for solar PV</td>
</tr>
<tr>
<td>Cleaner drinking water</td>
</tr>
<tr>
<td>Medical O₂</td>
</tr>
<tr>
<td>Freezing + preserving food, medical samples</td>
</tr>
<tr>
<td>Freezing</td>
</tr>
<tr>
<td>Better air quality</td>
</tr>
<tr>
<td>Water treatment</td>
</tr>
<tr>
<td>Welding</td>
</tr>
<tr>
<td>Welding Coatings</td>
</tr>
<tr>
<td>Laboratories</td>
</tr>
</tbody>
</table>

### Outcomes

<table>
<thead>
<tr>
<th>IMPACT</th>
</tr>
</thead>
</table>

**DELIVERING SUSTAINABLE VALUE (see page 11)**
air quality, thereby improving the environment and human health. Linde’s high-performance surface coatings help improve energy efficiency in jet engines and machine turbines. These outcomes deliver multiple longer-term impacts and sustainable business value. For more information about the company’s business model and products and services, please visit http://www.linde.com/

Creating Economic, Environmental and Social Value

Linde’s business model creates additional enduring value that amplifies our mission of making our world more productive. The table on the facing page shows a range of Linde’s inputs and activities, and the output and outcomes of these beyond those described in our Business Model table. For example, Linde values the safety of its employees and contractors and invests more than 5 million hours on safety training each year. One outcome of this effort is that Linde’s safety record is several times better than industry benchmarks, which gives us confidence that our employees and contractors return home safely at the end of their day.

Linde’s products contribute positively to the health and wellbeing of our customers. Homecare and hospital patients worldwide benefit from our medical gases, devices, services and therapies, especially in respiratory care. For example, during the COVID-19 pandemic, Linde medical oxygen was crucial to healthcare responders and their patients in many of our countries. In the United States, Lincare is a leading provider of home respiratory-therapy products and services.

Linde gases also play an important role in tackling the global challenge of access to clean water. An ever-growing population and industrial activity, along with stringent environmental regulations, puts additional pressure on wastewater treatment plants across the globe to treat increasing volumes of wastewater - adding pure oxygen effectively increases plant capacity. As access to drinking water becomes more scarce, the market for desalination has expanded, particularly in drought-susceptible areas. Carbon Dioxide can be used in the re-mineralization step, as a safer alternative to mineral acids. In Australia, for example, Linde CO₂ helps desalinate water to meet the needs of 15 percent of the population of Sydney. In 2019, Linde gases enabled 290 million people to have access to safe drinking water, including 137 million people in APAC.

The long-term impact of these activities is difficult to measure or attribute directly to one company. However, we can demonstrate how they contribute to the 17 global UN Sustainable Development Goals (UN SDGs) introduced by the UN to eradicate poverty, protect the planet and guarantee prosperity for all by 2030. The “Impact” Column of the table on the next page, shows the six SDGs most relevant to Linde, which are referenced in Linde’s new Sustainable Development targets.

An example of how Linde’s activity contributes towards the SDGs is for SDG 12: Responsible Production and Consumption. Target 12.2 is “By 2030, achieve the sustainable management and efficient use of natural resources.” Linde’s broad range of resource intensity targets address this issue. Linde also takes direct action on target 12.6: “Encourage companies, especially large and transnational companies, to adopt sustainable practices and to integrate sustainability information into their reporting cycle.”

In this table we can observe, for instance, how Linde contributes to SGD Goal 7, Target 7.2 - Increase the share of renewable energy by 2030; Linde will actively contribute to this target by doubling the purchase of low-carbon energy by 2028 (please refer to page 23 for more details on this target).
## How We Create Economic, Environmental and Social Value

<table>
<thead>
<tr>
<th>INPUT AND ACTIVITIES</th>
<th>OUTPUT AND OUTCOMES</th>
<th>IMPACT</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Employees</strong></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>80,000 employees in 95 countries</td>
<td>Personnel expenses in 2019 totaled $5.8 billion, including salaries, benefits, Social Security contributions and pensions, and share-based compensation</td>
<td>Good Health and Well-being</td>
</tr>
<tr>
<td>Committed to Diversity and Inclusion</td>
<td>27% female employees worldwide</td>
<td></td>
</tr>
<tr>
<td>&gt;5 million hours safety training delivered per year for employees and contractors</td>
<td>Continued to develop a diverse pipeline of senior leaders</td>
<td></td>
</tr>
<tr>
<td><strong>Customers and Investors</strong></td>
<td>Lost Workday Case Rate 4X better than U.S. Occupational Health and Safety Administration all industries industrial average</td>
<td>Recent Work and Economic Growth</td>
</tr>
<tr>
<td>Shareholder focus</td>
<td>27 consecutive years of dividend growth</td>
<td></td>
</tr>
<tr>
<td>Capital intensive operations</td>
<td>Return on capital: 11.6%</td>
<td></td>
</tr>
<tr>
<td>Local business model</td>
<td>Industry-leading backlog of $10 billion</td>
<td></td>
</tr>
<tr>
<td><strong>Innovation</strong></td>
<td>Linde manufactures and distributes nearly all its products and manages 2+ million industrial customers on a regional basis</td>
<td>Industry Innovation and Infrastructure</td>
</tr>
<tr>
<td>Technology Innovation</td>
<td>First-ever commercial scale trial for low-carbon steel heating with hydrogen, which enables substantial reductions in carbon emissions.</td>
<td></td>
</tr>
<tr>
<td><strong>Natural Resources</strong></td>
<td>53% of revenue from applications that bring environmental and social benefits</td>
<td>Responsible Consumption and Production</td>
</tr>
<tr>
<td>Resource productivity</td>
<td>Building of the world’s first hydrogen station for fuel-cell powered passenger trains</td>
<td></td>
</tr>
<tr>
<td>37.5 million MT CO₂e direct and indirect GHG* emissions</td>
<td>Leading electrolysis expertise: 40 megawatts, 80 units</td>
<td>Affordable and Clean Energy</td>
</tr>
<tr>
<td>162 million m³ water consumed</td>
<td>Delivered productivity fully in line with business strategic objectives (total productivity savings &gt;$750 million)</td>
<td>Responsible Institutions</td>
</tr>
<tr>
<td><strong>Society</strong></td>
<td>$84.5 million realized from sustainable productivity, including avoiding 100 million gallons of water and 505,000 MT CO₂e</td>
<td>Peace, Justice and Strong Institutions</td>
</tr>
<tr>
<td>Commitment to Ethics and Integrity</td>
<td>Gases for water treatment and desalination enabled an estimated 290 million people to have access to safe drinking water</td>
<td></td>
</tr>
<tr>
<td>$8 million in funding for social projects and initiatives</td>
<td>Maintained strong compliance culture; new Code of Business Integrity implemented across combined company</td>
<td></td>
</tr>
<tr>
<td>61,000 employee volunteer hours contributed</td>
<td>More than 1,300 organizations supported globally</td>
<td></td>
</tr>
<tr>
<td><strong>Healthcare business</strong></td>
<td>300,000 children and students benefitted from employee community engagement projects</td>
<td>Recent Work and Economic Growth</td>
</tr>
<tr>
<td></td>
<td>Crucial support to hospitals and healthcare facilities during the COVID-19 pandemic in Linde countries of operation</td>
<td></td>
</tr>
<tr>
<td></td>
<td>In the U.S., Lincare is the largest provider of respiratory care in the home</td>
<td></td>
</tr>
</tbody>
</table>

*GHG: Greenhouse gas
** UN SDG: UN Sustainable Development Goals
Linde’s ambitious Sustainable Development 2028 (SD 2028) targets are our roadmap and plan for the coming 10 years. The targets are organized in four categories or Priority Factors (PFs) that we consider relevant to the company and its internal and external stakeholders: Climate Change; Safety, Health & Environment; People & Community; and Integrity & Compliance. The PFs are shown in the box: 2019-2020 Priority Factors.

Within the four PFs are 10 subset areas, covering 20 targets. The Climate Change targets span Linde’s full value chain, from pre-investment and R&D to operations, customers and growth strategy. These are discussed in the Climate Change section. Our PF for Safety, Health & Environment is supported by targets for personnel safety, distribution safety and product safety, and in the environment area, for sustainable productivity, water and waste. The People & Community PF has targets for diversity and inclusion, community engagement and global giving. In the Integrity & Compliance category, we are targeting 100% of employees and contractors certified in our Code of Ethics & Compliance.

This set of targets has several features worth noting:

1. They are 10-year targets that set a long-term strategy for sustainable development at Linde. They are consistent with Linde’s business model, its mission and values, and the strategic business objectives named by the Board as a basis for variable compensation.

2. Linde’s businesses and functions are accountable to deliver these targets — they are embedded into our businesses and operations. Each target is a business KPI and managed as part of the business.

3. The targets were developed with reference to external expectations. These include ESG investors, who look for non-financial information as the basis to make better informed investor decisions (such as the Sustainability Accounting Standards Board [SASB]). They were also developed with stakeholders interested in understanding Linde’s impacts within the context of global needs and planetary boundaries (such as described by the GRI Sustainability Reporting Standards and the UN SDGs). Our SD targets contribute to several SDGs, as shown in the Value Creation section on page 11, and in the Targets table. Linde also provides indexes that show how its SD strategy and targets align with the GRI Standards, TCFD and with SASB. For more information please visit: https://www.linde.com/about-linde/sustainable-development/reporting-center.

### 2019-2020 Priority Factors

<table>
<thead>
<tr>
<th>Priority Matrix</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>4 PRIORITY FACTORS:</strong></td>
</tr>
<tr>
<td>• Climate Change</td>
</tr>
<tr>
<td>• Safety, Health &amp; Environment</td>
</tr>
<tr>
<td>• People &amp; Community</td>
</tr>
<tr>
<td>• Integrity &amp; Compliance</td>
</tr>
</tbody>
</table>

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This table shows the importance of the various factors to Linde and to external shareholders.
## Sustainable Development Targets 2018-2028*

<table>
<thead>
<tr>
<th><strong>Climate Change</strong></th>
<th><strong>Safety, Health &amp; Environment</strong></th>
<th><strong>People &amp; Community</strong></th>
<th><strong>Integrity &amp; Compliance</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Invest &amp; Innovate in Decarbonization</strong></td>
<td><strong>Occupational and Distribution Safety</strong></td>
<td><strong>Diversity &amp; Inclusion</strong></td>
<td><strong>Integrity &amp; Compliance</strong></td>
</tr>
<tr>
<td>• &gt;$1 billion in decarbonization initiatives</td>
<td>• Achieve annual operational safety better than industry levels (LWCR, TRCR)</td>
<td>• Achieve 30% representation of women globally by 2030</td>
<td>• Confirm 100% annual Certification to Linde’s Code of Business Integrity</td>
</tr>
<tr>
<td>• &gt;1/3 annual R&amp;D budget to decarbonization</td>
<td>• Achieve annual Commercial Vehicle Incident Rate (CVIR) of &lt;2.5 / million km</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Achieve 35% intensity reduction in GHG vs. EBITDA</strong></td>
<td><strong>Health/Product Stewardship</strong></td>
<td><strong>Employee Community Engagement</strong></td>
<td></td>
</tr>
<tr>
<td>• &gt;2x low-carbon power sourcing, primarily from active renewable electricity</td>
<td>• Zero global sales of coating slurries that contain hexavalent chrome by 2029 (Surface Coatings)</td>
<td>• Contribute 550 CE projects by 2028</td>
<td></td>
</tr>
<tr>
<td>• Improve energy &amp; GHG intensity</td>
<td>• 4% for HyCO GHG</td>
<td>• Integrate Community Needs Assessments into Engineering project design phase (U.S. only)</td>
<td></td>
</tr>
<tr>
<td>• 7% for ASU energy</td>
<td>• 10% for distribution fleet GHG</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• 10% absolute reduction in GHG emissions from Other GHG</td>
<td>• 10% for distribution fleet GHG</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Deliver Innovative &amp; Sustainable Solutions</strong></td>
<td><strong>Environment</strong></td>
<td><strong>Global Giving</strong></td>
<td></td>
</tr>
<tr>
<td>• Contribute &gt;50% annual sales from Sustainability Portfolio</td>
<td>• Achieve $1.3 billion Sustainable Productivity</td>
<td>• Increase environmental / climate-related philanthropic spend by 50%</td>
<td></td>
</tr>
<tr>
<td>• Enable &gt;2x annual carbon productivity</td>
<td>• Implement Water Management Plans at 100% relevant sites</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* See Performance Towards Targets for definitions of scope and boundary of each target. All targets run 2018-2028 except where otherwise noted.
The Target Setting Process

Linde followed a management system logic in setting its SD targets; see Linde’s 2028 Target Setting Process diagram on the next page. We started with a grounding in Linde’s internal drivers — its values, principles, business model, risk factors, governance and compliance, and compensation structure. Next, we considered relevant external frameworks, standards, guidelines and concerns that represent the views of our industry, general stakeholders, investors and customers. These included the chemical industry’s Responsible Care® program; the GRI Sustainability Reporting Standards; the UN SDGs; the SASB Standard for the chemical sector; and the frameworks of the International Integrated Reporting (IR) Council, the Climate Disclosure Standards Board and the Task Force on Climate-Related Financial Disclosures (TCFD). We also conducted an internal management survey to assess management priorities.

As these are a new generation of sustainability targets, Linde performed a full Sustainable Development Materiality Assessment (SDMA). Based on these first two steps, we worked with the businesses and functions to define Linde’s PFs, KPIs, work processes and reporting. “Materiality” is defined differently for different stakeholders. For ESG investors, materiality is defined as information needed to make better investment decisions (e.g., SASB, TCFD). Linde is investor-focused, and we weighed these issues strongly in our materiality considerations. Linde also collected perspectives from employees, potential employees, customers, regulators and local communities, to name just some additional relevant stakeholders. An SDMA must consider multiple inputs and consolidate these into a coherent set of priorities and KPIs.

In addition, as part of its continuous improvement process, Linde will conduct a condensed SDMA each year to confirm alignment and consider adjustments and improvements. The SDMA will be repeated after 5 years to confirm that the key issues remain relevant. The full SDMA process is described on our website at: https://www.linde.com/about-linde/sustainable-development/selecting-priorities.

Following the SDMA, we were able to finalize the SD 2028 targets. An example of the iterative process of continuous review of PFs, KPIs and targets against internal drivers and external frameworks is provided below for Linde’s Decarbonization Investment Target that was developed as part of the company’s Sustainable Development strategy.

Targets were presented to the executive leadership team at the end of 2019 and approved by the Board in January 2020. The targets are based on 2018, and this report presents the first year of results towards these targets. Our management system process is now in place for regular reporting from the businesses and functions, management and Board review, and continuous improvement.

### How Linde’s Decarbonization Investment Target Was Developed

#### Examples

<table>
<thead>
<tr>
<th>Internal Drivers</th>
<th>External Drivers</th>
<th>Priority Factors</th>
<th>Targets</th>
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<tr>
<td><strong>BUSINESS MODEL:</strong> Resource Transformation</td>
<td><strong>RCMS:</strong> Increasingly benefit society &amp; environment</td>
<td><strong>Climate Change</strong></td>
<td>&gt;$1 Billion investments in new decarbonization capital projects</td>
</tr>
<tr>
<td><strong>MISSION:</strong> Technologies that help to sustain and protect our planet</td>
<td><strong>GRI Standards:</strong> Product Environmental Impact</td>
<td></td>
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<tr>
<td><strong>RISK:</strong> Sufficient speed of Technological advances</td>
<td><strong>SASB:</strong> Revenue from products designed for use-phase resource efficiency</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>NON-FINANCIAL COMPENSATION:</strong> Continuous innovation in environmental performance</td>
<td><strong>UN SDG 9:</strong> Greater adoption of clean and environmentally sound technologies</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Linde's SD targets are a result of a rigorous and comprehensive process, which entails several rounds of internal and external stakeholders' input collection, based upon which a list of suggested targets is created and submitted to the Board for final approval. Once approved, performance is regularly monitored against the targets and subject to continuous improvement reviews.
The effects of climate change are increasingly visible on the environment, society and the global economy. Climate change is not a distant threat — it is happening now. Linde has the technology, the resources and the people to help address climate change. For more than 100 years, we have been providing solutions to help solve global energy challenges. Our company’s mission of making our world more productive is fully aligned with the goals of addressing the global challenges of sustainable energy and climate change. Through our high-quality solutions, products, technologies and services, we are making our customers more successful and helping to sustain and protect our planet.

TODAY
Linde is in the business of resource transformation. We use fuels for energy and as feedstock. Our business and production processes are therefore energy-intensive, making the cost and availability of energy important for Linde. Our total carbon footprint in 2019 was about 37.5 million tons CO₂e, of which 44 percent stem from direct carbon dioxide emissions, mostly from our hydrogen plants, and 56 percent from indirect emissions from our electricity consumption, mostly from air separation. This energy use, in turn, delivers innovative and sustainable solutions for our customers. In many cases, these solutions improve the productivity, energy use and GHG emissions for our customers or end users. In fact, we calculate that in 2019, Linde gases, principally oxygen and hydrogen, enabled our customers to avoid 100 million metric tons of CO₂e (see page 5), which is more than twice as much GHG avoided than emitted from all our operations.

As the electric grid decarbonizes by using more low-carbon and renewable sources, Linde’s indirect GHG emissions will reduce. In addition, Linde actively contributes to grid decarbonization in multiple ways:

- Linde’s business proposition is that it is more reliable and more energy efficient for our customers to outsource the production of industrial gases than to insource. Linde’s energy efficiency is world-class, and we continue to improve it each year, saving money as well as energy and GHG emissions.

- Many of Linde’s cryogenic air separation (ASU) plants are designed to include “buffer” inventories to retain reliable supply in case of power failure. This has allowed Linde to participate in Demand-Response programs. In periods of peak energy demand, Linde can interrupt its grid power use and effectively reduce grid electric load (by the equivalent of 40,000 homes from a single location). Linde’s design investment can provide ancillary service for grid operators to maintain reliable electric power service as wind and solar energy become a greater part of our resource mix.

- Thirty-five percent of all Linde energy (15.5 TWh) is currently sourced from low-carbon and renewable power. Of that, 2.4 TWh is directly or actively sourced — equivalent to the annual electricity use of 280,000 homes in the U.S. Linde electricity use in the UK and Brazil is almost 100 percent renewable, using wind and hydroelectric, respectively. Other low-carbon sources are hydro and nuclear power in New York state, wind and hydro in Mexico, and wind in India.

Hydrogen is a key enabler of the clean energy transition. It is a versatile, clean and safe energy carrier that can be used as fuel for power or in industry as feedstock. At the point of use, it produces zero emissions and it can be stored and transported at high energy density in liquid or gaseous form. It can be combusted or used in fuel cells to generate heat and electricity.

We are at the beginning of this transition. Conventional processes are dominant today in refining, chemical production and other manufacturing processes (steel, electronics and other applications). R&D and emerging technologies are starting to change the landscape, but hydrogen fuel cell vehicles (HFCVs) are not yet widely adopted, green fuels and materials are still at pilot stages and hydrogen for energy storage is still in the development stage.

Most hydrogen is produced by steam methane reforming (SMR) using natural gas, or recovered as a byproduct from other industrial processes. Water electrolysis is emerging as an effective low-carbon source of hydrogen production, but SMRs remain the dominant technology to produce hydrogen at a large scale.
Linde’s 2028 Climate Goals

- Drive operational efficiency across our business to further reduce GHG intensity.
- Invest +USD 1 billion in decarbonization projects.
- Spend at least 1/3 of our R&D annual budget on decarbonization.
- Continue to develop industry-leading technologies like dry reforming.
- Double our annual purchases of low-carbon power.
- Continue to invest in promising green H₂ technologies.

As a result, we will lower our GHG emissions intensity by 35%, compared with a 2018 baseline.*

*GHG emissions intensity calculated as Scope 1 + Scope 2 GHG emissions vs adjusted EBITDA.
Leading the Transition to Clean Hydrogen

With over 100 years of experience in hydrogen production, processing, storage and distribution, Linde offers unmatched expertise, innovation and reach to customers and industry partners. The company’s unrivaled hydrogen network includes 150+ production sites around the globe, 1000 km (621 miles) of pipelines and the largest H₂ liquefaction capacity in the world. Linde has been at the forefront of the clean hydrogen movement since its early days, roughly 30 years ago. Today, Linde is a leader in clean hydrogen with over 190 H₂ fueling stations installed, servicing cars, trucks, buses and trains; participation in forward-looking projects and initiatives, such as Hydrospider and H₂ Mobility; 80+ electrolysis plants for hydrogen production; first commercial high-purity H₂ cavern – now in operation for over 10 years; largest Power-to-X energy park in Mainz, Germany; and participation in countless flagship projects.

Linde is committed to a cleaner and more sustainable economy. Hydrogen will play an important role in the energy transition and is a key platform in Linde’s commitment to mitigate climate change. We are aligned with the Paris Accord and contribute to accelerating the transition to a clean energy economy. We also support the Task Force on Climate Related Financial Disclosures (TCFD) - an Index showing the alignment between Linde’s reporting and the TCFD Guidelines is available at: https://www.linde.com/about-linde/sustainable-development/reporting-center. Advocacy is another way in which we actively drive the transition to clean energy: Linde is a founding member of the Hydrogen Council and participates in many other hydrogen and climate change forums and advocacy groups.

We believe that hydrogen will continue to enable industrial and environmental benefits, including refining, chemical production and industrial feedstock. Linde is fostering that change by participating in groundbreaking projects, such as the first-ever commercial scale trial for low-carbon steel heating with hydrogen. This is a major step for the industry and will bring a substantial reduction in carbon emissions.
TOMORROW — Roadmap to 2028

In 2028, the target horizon for our 10-year managed climate objectives will end. Our assumptions for this time horizon are that industrial-level decarbonization will accelerate in the coming decade. New technologies will be piloted and scaled commercially. Green fuels and materials will be scaling and the feasibility for hydrogen as storage will be growing. SMRs will continue to be used for most large-scale hydrogen production. They will be more efficient, and many will incorporate carbon capture or use feedstocks and power from renewable sources. Electrolysis for green hydrogen production from renewable power will be available at capacities greater than 100 MW.

Linde has established six new climate change targets through 2028 (with a 2018 baseline). A summary is provided in the image on page 17, the full set is in Linde’s Sustainable Development 2028 (SD 2028) targets on page 13. Our targets follow the full value chain from investment to customer and planetary benefits. They were developed to be consistent with Linde’s Mission and to maintain our leadership in sustainability. These are management targets; our businesses are accountable for achieving them, and they are part of our compensation structure.

Linde will invest more than $1 billion in decarbonization initiatives and triple the amount of clean hydrogen production. The company is investing across the hydrogen value chain to accelerate the clean energy transition with a higher global renewable power mix and significant operating and capital efficiencies. We will pursue competitive low-carbon sources of hydrogen, including energy-efficient SMRs with carbon dioxide capture, electrolysis with renewable power, and piloting new low-carbon technologies.

In the R&D decarbonization focus area, key projects include advanced thermal barrier coatings and advanced sealing technologies, improving global plant efficiency, energy optimization, logistics and operations optimization, and flexible operations to support demand-side management and allow for higher utilization of renewably produced electrical power. It also includes the development of alternative gas separation technologies to allow alternative process concepts with higher efficiency and a lower carbon dioxide footprint; and decarbonization of the integrated mill, heat recovery, direct reduced iron technologies and electrochemistry initiatives.

Not all the barriers to decarbonization can be overcome in the short term. However, we can continue to invest in optimizing operational efficiency, and we are making a commitment to a substantial increase in low-carbon and renewable energy to continue reducing carbon emissions.

The target of 35 percent improvement in Linde GHG intensity 2018–2028 is measured against adjusted EBITDA*. This target was chosen in order to show efficiency against a business denominator. EBITDA is one of the non-GAAP measures reported by Linde plc. Achieving this target will depend on a range of external variables that are not in our control, from global economic trends to government regulations to currency fluctuations. We remain committed to managing business

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*Scope 1 and 2 emissions (in Million MT) divided by adjusted proforma EBITDA in billion USD
The adjusted EBITDA (in part of GHG vs. EBITDA intensity) is a non-GAAP measure prepared on a basis consistent with Article 11 of Regulation S-X and includes certain non-GAAP adjustments.
growth while optimizing operational GHG emissions. In 2019, Linde reduced its GHG intensity by 8.2 percent; see chart on page 19.

In relation to Scope 1 or direct GHG emissions, we target improving Scope 1 GHG intensity for hydrogen plants (HyCos) (4 percent improvement within the target horizon) and our distribution vehicles (10 percent), and reducing our absolute GHG emissions from other sources (e.g., refrigerant filling losses, nitrous oxide emissions) by 10 percent. In relation to Scope 2 or indirect GHG emissions, Linde aims to improve its operational efficiency and GHG intensity at ASU plants (7 percent within the target horizon).

Linde’s largest medium-term opportunity to affect its GHG footprint is in Scope 2 electricity. We plan to leverage our scale and geographic distribution to procure reliable and affordable sources of renewable electricity through active procurement of new direct renewable energy contracts, Power Purchase Agreements (PPAs) or Renewable Energy Credits (RECs).

By 2028, we expect to have achieved:

- 35 percent improvement in GHG intensity versus EBITDA — from 5.0 to 3.2
- Hold Scope 2 GHG emissions flat or reduced at the same time as we substantially increase our power use
- Greater than 6x more active renewable energy procured (from 2.5 to 15 TWh)
- Overall RE and low-carbon energy sources projected to increase from 35 percent to more than 50 percent (all power)

We have implemented several additional measures to help us better manage our carbon footprint, achieve our long-term targets, and assess the long-term risks of climate change. A new Clean Hydrogen organization was launched to focus and accelerate activity in this area. The GHG emissions from new investments are calculated and integrated into considerations in Capital Investment Committee decisions for every project. They are then considered in the selection of the technology solution and project risks across the project development cycle. To help mitigate potential physical risks from climate change, Linde has developed a tool to explore future climate change scenarios that could impose additional operational costs on production processes from factors like higher ambient temperature or air quality deterioration/higher carbon dioxide parts per million (PPMs) in the atmosphere at our locations.

**BEYOND**

We are at the brink of an energy transformation. The long-term effects of carbon-based fuels on the environment and climate require significant changes to the energy supply chain. We can envision a future where hydrogen fuel cells will be widely adopted; green electricity will be available commercially; and energy and fuel markets will be linked. Low-carbon hydrogen will be cost-competitive; SMRs will feature additional energy efficiency and carbon capture; and electrolysis will be available with renewable electricity sources at much greater capacities and will supply a significant share of new hydrogen demand.

Tackling climate change is a shared and global responsibility. Linde plans to participate in the investments and technologies that will reduce global GHG emissions. We are proudly active in advancing the world towards the ambitious target of the IEA Beyond 2 Degrees scenario (B2DS) and its required GHG pathway for the chemical industry. Achieving this objective will require changes in societal behaviors, government regulation, industry engagement and technology development. As a leading industrial gases and engineering company, we have the technology, the resources and the capability to contribute across all aspects of managing climate change and reducing GHG emissions.
Performance Towards Targets

Linde’s 2028 Sustainable Development (SD 2028) targets set a long-term, 10-year action plan with commitments from leadership and all levels of the organization. These are managed targets with clear accountability, ongoing reporting to management, and an annual process of review and continuous improvement. These target areas are consistent with Linde’s strategic non-financial business objectives considered in determining executive variable compensation awards. Performance against this full slate of targets is reported at least twice a year to executive leadership, and at least once a year to the full Board of Directors. Operational performance towards targets is reported on a monthly basis to management. The targets were developed in 2019 at the request of Linde’s Board of Directors and executive leadership and approved by them in early 2020. [See “Governance” on pages 28-30.] The targets run from the 2018 base year, the first year of our merged company, for 10 years to 2028. This chapter provides a summary dashboard of the SD 2028 targets and performance against these targets for 2019.

Linde’s SD 2028 targets supersede Praxair’s SD 2020 targets, which were the basis of Linde’s sustainability performance reporting in our 2018 SDR.

With the consolidation of information and management systems, some changes were made to methodologies and boundaries that affect numbers previously reported for 2018. Most targets report pro forma baseline 2018 data so that trends can be reported over time. This is a change from reported data in 2018 that used a financial boundary. These changes are described in “Restatements” on page 40. For the operational climate change targets, the new pro forma 2018 values were audited; see the Assurance letter on pages 97-101.
Climate Change

<table>
<thead>
<tr>
<th>Priority Factors</th>
<th>Linde SD 2028 Targets</th>
<th>2018</th>
<th>2019</th>
<th>Target</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Invest in decarbonization initiatives, cumulative $ million</td>
<td>14</td>
<td>66</td>
<td>1,000</td>
<td>➰</td>
<td></td>
</tr>
<tr>
<td>Direct &gt;33% of R&amp;D budget to decarbonization, cumulative %</td>
<td>23</td>
<td>25</td>
<td>&gt;33</td>
<td>➰</td>
<td></td>
</tr>
<tr>
<td>Contribute &gt;50% revenue from sustainability portfolio, annual %</td>
<td>n/a</td>
<td>53</td>
<td>50</td>
<td>➰</td>
<td></td>
</tr>
<tr>
<td>Enable &gt;2x GHG benefits, annual</td>
<td>2.5x</td>
<td>2.7x</td>
<td>&gt;2.0x</td>
<td>➰</td>
<td></td>
</tr>
<tr>
<td>35% Improvement in GHG intensity vs. EBITDA, cumulative</td>
<td>(5.0)</td>
<td>-8.2% (4.6)</td>
<td>-35% (3.2)</td>
<td>➰</td>
<td></td>
</tr>
<tr>
<td>4% HyCo GHG intensity improvement, cumulative %</td>
<td>0</td>
<td>-3.4</td>
<td>-4.0</td>
<td>➰</td>
<td></td>
</tr>
<tr>
<td>7% ASU energy intensity improvement, cumulative %</td>
<td>0</td>
<td>-0.6</td>
<td>-7.0</td>
<td>➰</td>
<td></td>
</tr>
<tr>
<td>10% Fleet GHG intensity improvement, cumulative %</td>
<td>0</td>
<td>-0.9</td>
<td>-10.0</td>
<td>➰</td>
<td></td>
</tr>
<tr>
<td>10% Absolute reduction in other GHG emissions, cumulative %</td>
<td>0</td>
<td>0</td>
<td>-10.0</td>
<td>➰</td>
<td></td>
</tr>
<tr>
<td>&gt;2x Low-carbon power sourcing, primarily from active renewable electricity, cumulative TWh</td>
<td>15.2</td>
<td>15.5</td>
<td>&gt;30.0</td>
<td>➰</td>
<td></td>
</tr>
</tbody>
</table>

Legend

- ➰ achieved;
- ➰ on track;
- ➰ behind target

Invest and Innovate in Decarbonization

Linde has four targets in the area of decarbonization and growth. Data for 2018 is pro forma.

- **Invest >$1 billion in decarbonization initiatives**
  The scope is capital projects of more than $2 million, where the primary aim of Linde and/or its customers is to reduce GHG emissions or advance the use of low-carbon fuels and energy. Since 2018, Linde has invested a cumulative $66 million, of which the largest was the stake in the joint venture ITM Linde Electrolysis GmbH.

- **Direct at least a third of Linde’s annual R&D budget to decarbonization**
  The scope includes annual spend to develop lower-carbon technology for Linde assets or to develop lower-carbon solutions for our customers. Linde invested 25 percent of its 2019 R&D budget ($184 million) into decarbonization (2018: 23 percent). Initiatives include developing industry-leading carbon capture technologies, investing in promising green hydrogen technologies, and driving operational efficiency to further reduce GHG intensity. Examples of activity towards this target are provided in the Climate Change section.

- **Contribute more than 50 percent of revenue from our sustainability portfolio**
  The scope is annual Linde revenue associated with the sale of gases whose use brings environmental and/or social benefits; see the Business Model table on page 9. In 2019, Linde generated 53 percent of revenue, or $13.5 billion, from its Sustainability Portfolio. The Sustainability Portfolio includes sales from Linde’s eco-portfolio ($8.9 billion) and social portfolio ($4.7 billion) — numbers do not sum because of some overlap. The eco-portfolio includes applications that have environmental and social benefits, such as oxygen for blast furnaces in steel; hydrogen for ultra-low sulfur diesel (ULSD); and oxygen and carbon dioxide for wastewater treatment, desalination and aquaculture. The social portfolio included applications with targeted social benefits. Examples are oxygen for respiratory care and helium for MRI technology. This target is baselined in 2019.

For the eco-portfolio, R&D developed a simplified Life Cycle Assessment (LCA)-based screening methodology to determine and update which applications are included. A simplified LCA includes part of the four stages of a product lifecycle of raw material acquisition, manufacturing, use/reuse/maintenance and recycle/waste management (i.e., it assesses one or two of the stages completely, or analyzes all four stages to lesser depth). All (100 percent) of Linde’s products under development were evaluated in-depth in the first three stages (i.e., cradle to grave). For environmental impacts, we use Environmental Key Performance Indicators (EKPIs): energy (electricity, natural gas and fuel), air emissions and direct and indirect GHG emissions; waste (hazardous and non-hazardous); water; and Ozone Depleting Substances (ODSs). 

- **Enable >2X more GHG to be avoided per year than are emitted in all Linde operations.**
  The scope is GHG benefits from a subset of Linde applications that enable demonstrable GHG benefits, versus Linde’s 2019 total direct and indirect (Scopes 1 and 2) GHG emissions. In 2019, a subset of its applications enabled 100 million MT CO₂e to be avoided — 62.5 million MT more than its GHG emissions or 2.7x times more. See “Linde Applications Enable 2.7x Carbon Productivity,” page 5.

Methodology: End-user avoided carbon dioxide emissions are calculated in accordance with International Council of Chemical Associations (ICCA) guidelines. Avoided emissions arise from efforts by multiple partners along the respective value chains. Linde’s contribution has been characterized as fundamental in enabling the avoided emissions. See “Addressing the Avoided Emissions Challenge: guidelines from the chemical industry for...”

Optimize Operational Energy Use and GHG Emissions

Linde’s 2019 Scope 1 GHG emissions were 16.5 MM MT CO₂e. These were caused mainly (68 percent) by hydrogen production in SMRs. An additional 17 percent Scope 1 emissions were caused by “other” sources of GHG (e.g., nitrous oxide): 11 percent from air separation, where air separation units (ASUs) are run on natural gas, and 4 percent from driving. Targets to improve GHG intensity improvement in hydrogen production, Other GHG emissions and driving address these sources.

Linde’s Scope 2 GHG emissions were 21 MM MT CO₂e. These were caused by the use of electricity and steam, a portion of which comes from fossil fuel sources. Electricity is principally (85 percent) used by air separation plants and is tracked with the air separation energy efficiency target. An additional 4 percent of the electricity is used in hydrogen production. Targets to improve energy efficiency in ASUs and to increase low-carbon sourcing address this issue.

These targets are reported against a 2018 pro forma baseline which was externally assured. See the Assurance section on pages 97-101.

In order to show efficiency against a business denominator, Linde selected EBITDA, which is one of the non-GAAP measures reported by Linde plc. It reflects the size of the business for which the emissions are being reported and the efficiency improvements that are being targeted. Adjusted pro forma EBITDA is a non-GAAP measure prepared on a basis consistent with Article 11 of Regulation S-X of the U.S. Securities and Exchange Commission and include certain non GAAP adjustments. Linde’s 2019 adjusted pro forma EBITDA was $8.2 billion.

- **Achieve 35 percent GHG intensity improvement versus EBITDA**
  The scope is Linde’s combined Scope 1 + Scope 2 GHG emissions versus EBITDA. In 2019, Linde’s GHG intensity was 4.6 MM MT CO₂e/ $ billion – an 8.2 percent GHG intensity improvement over 2018. Also see the goal of 35 percent improvement in Linde GHG intensity 2018-2028, (page 19.)

- **Achieve 7 percent improvement in ASU energy intensity**
  The scope is Linde ASU facilities worldwide where Linde pays for the power and has operational control, including 50 percent at-equity joint ventures. The 2019 results were a 0.6 percent improvement versus 2018 (pro forma). This was achieved through targeted productivity efforts and capital investments, along with the startup of large plants incorporating state-of-the-art ASU equipment and processes. See GRI 302-1 for information on electricity consumption, GRI 302-3 for energy intensity, and GRI 302-4 for energy reduction activities.

- **Achieve 4 percent improvement in hydrogen GHG intensity**
  The scope is Linde hydrogen facilities worldwide. The 2019 results were a 3.4 percent improvement versus 2018 (pro forma). Performance against this target was not expected to be linear. It reflects the effect of project startups over this period and the implementation of projected technology innovations. The 2019 change was largely driven by the increase in byproduct hydrogen sourced.

- **Achieve 10 percent Improvement in trucking GHG emissions intensity**
  The scope is all Linde commercial driving operations (bulk and packaged gases combined) where the driver is a Linde employee. The 2019 results were a 0.94 percent GHG intensity improvement.

  The target is calculated by multiplying the number of miles driven and fuel used in each geography by GHG emissions factors and dividing by volume of product delivered. The 2019 performance was driven by improvements in network optimization; operational efficiencies; better planning and scheduling to reduce kilometers per delivery; and improved vehicle technologies for fuel efficiency. Contractor driving is reported as Scope 3 at GRI 305:3.

- **Achieve a 10 percent absolute reduction in other GHG emissions**
  The scope is most “Other GHG Emissions” from a range of Scope 1 GHG emissions sources, calculated into CO₂ equivalents. In 2019, these emissions were 1.7 MM MT CO₂e (2018: 1.7).

  Other GHG emissions within this target are from refrigerant losses from cylinder refilling operations; nitrous oxide (N₂O) emissions from N₂O plants and cylinder filling; and methane releases from helium and CO₂ plants, which account for most of Linde’s other GHG emissions. The 2019 emissions were flat against the 2018 baseline.

- **>2x low-carbon power sourcing (to >30TWh), primarily from active renewable electricity**
  The scope is all Linde operations within our GHG reporting boundary. Linde sourced 15.2 TWh low-carbon energy, our baseline. In 2019, the company sourced 15.5 TWh low-carbon energy, or 35 percent of all its purchased electricity. Low-carbon electricity is defined as electricity produced from non-fossil sources (including renewables e.g., solar, wind, biomass, geothermal, hydropower and other low-carbon, [e.g., nuclear]). The target includes passive electricity (i.e., from the grid) and active sourcing over PPAs, RECs, certificates and sourcing contracts for specific facilities. It considers all energy consumption where Linde purchases the electricity. It excludes electricity where Linde is not the purchaser.

  Linde actively sourced 2.4 TWh renewable energy in 2019. Linde electricity use in the UK is almost 100 percent renewable, using wind. Renewable electricity is also sourced in New York State, Colombia, India, Spain, the Philippines and other geographies.
In addition to its investment targets, aimed at addressing climate change, Linde has defined three environmental targets: sustainable productivity or eco-efficiency, reduction of waste, and management of water. During 2019, these programs were fully consolidated, and performance is now reported for the full organization. All three programs are baselined with 2018 data from legacy Praxair only. In 2019, reported performance for sustainable productivity and zero waste decreased from 2018 due to the full year impact of 2018 divestitures and the mid-year launch of the global initiative.

- **Safety, Health & the Environment**
  - Total environmental costs and investments in 2019 were $176.5 million, or 17 percent percent of all productivity savings.
  - Linde achieved savings of $84.5 million (cumulatively $176.5 million), or 17 percent percent of all productivity savings. Total environmental costs and investments in 2019 were approximately $50 million.

  **Priority Factors**
  - **Safe, Health & the Environment**
  - **Linde SD 2028 Targets**
  - **2018** | **2019** | **Target** | **Status**
  - $1.3 billion in sustainable productivity, cumulative $ million | 92 | 176.5 | 1,300 | ↗
  - Water Management Plans (WMPs) at high-water-use sites in areas of high-water stress (# sites, % WMPs implemented) | n/a | 22 (73%) | 100% | ↗
  - Achieve Zero Waste to Landfill at 450 Sites | 217 | 210 | 450 | ↗
  - Annually achieve operational safety better than industry levels for Lost Workday Case Rate (LWCR) | 0.32 | 0.23 | 1.00 | ↑
  - Annually achieve annual operational safety better than industry levels for Total Recordable Case Rate (TRCR) | 0.74 | 0.57 | 3.10 | ↑
  - Annually achieve Commercial Vehicle Incident Rate (CVIR) of <2.5 per million kilometers driven | 2.05 | 2.17 | <2.50 | ↑
  - Zero global sales of coating slurries that contain hexavalent chrome by 2029 (Surface Coatings) | On track, see reporting section following |

**Legend**
- ↑ achieved; ↗ on track; ⬇ behind target

**Environment**

Areas of water stress are defined by the World Business Council on Sustainable Development (WBCSD) (2015 version)/ WRI Aqueduct Global Water Risk Atlas Tool (2019 version). We determined “high stress” to mean that the baseline water stress was “high” or “extremely high”. In addition, businesses are encouraged to use local determinants of water risk; sites thus defined are included in this target scope.

Most of the water Linde uses is for cooling systems and for the production of steam for the steam methane reforming process to make hydrogen. Net freshwater consumption was 162 million m³.

Linde identified 11 sites that met our definition for 2019. Latin America (LatAm) South included 11 additional sites based on local knowledge of high-water stress, bringing the total to 22 sites. In 2019, five hi-hi sites had implemented a WMP, in addition to the voluntary sites in LatAm where water savings projects were achieved (73 percent of sites). The 11 sites are in the United States (5), Mexico (3), China (2) and Venezuela (1). The voluntary sites are in Brazil (9) and Peru (2).

Linde in Brazil voluntarily adopted a target to reduce 1 percent absolute water volume by 2020. They have achieved this target for four consecutive years. At the end of 2019, they achieved an overall water reduction of more than 1,938,673 m³ – a cumulative reduction of 47.7%, compared to baseline. Investments were made to re-use rainwater and to condensate the water from thawing liquid vehicles hoses, and use it as make-up water at refrigeration towers.

**• SD 2028 Target: >450 sites achieve Zero Waste to Landfill**

The scope is all Linde operations. The end of 2019, 210 sites achieved Zero Waste to Landfill. A Zero Waste to Landfill site is defined as one that diverts more than 90 percent process waste from landfills, this can include incineration for energy recovery. Altogether, 396 sites participated, and approximately 100 million pounds of waste was diverted from landfills. Zero Waste to Landfill helps extend our company’s mission and values and promotes circular economic practices. In many cases, the program brings social benefits to
local communities, from education to job creation. See GRI 306-2 for more information on waste metrics.

In addition to Linde facilities, six regional offices were awarded or renewed their external recognitions for greening their offices: in Bangalore, India; Seoul, Korea; Burr Ridge, Illinois; The Woodlands, Texas; Danbury, Connecticut; and Tonawanda, NY. See the Green Seal website at: https://www.greenseal.org/programs/green-office-partnership/.

**Safety & Health**

During 2019, Linde aligned its safety and environmental standards and procedures for both work processes and product handling to enable employees around the world to execute their jobs safely and to prevent safety incidents relating to operational processes or products. Linde’s Safety SD 2028 targets include two for operational safety, one for distribution safety and one for product safety. All are baselined on pro forma data 2018.

- **Annually achieve operational safety better than Industry Levels for Lost Workday Case Rate (LWCR) and Total Recordable Case Rate (TRCR)**
  The scope of these targets are all Linde operations (i.e., for employees and contractors).

  **Lost Workday Case Rate (LWCR):** Linde’s 2019 LWCR was 0.23 (2018: 0.32), more than four times better than the OSHA all industry industrial average (1.7). Linde’s LWCR is defined as the number of Recordable Injury Cases (RIC) plus the number of Recordable Sickness Cases (RSC) that result in one or more day(s) away from work as a result of a work-related incident or exposure per 200,000 hours worked (for employees and contractors).

  **Total Recordable Case Rate (TRCR):** Linde’s 2019 TRCR (the number of employee or contractor recordable injuries per 200,000 hours worked) was 0.57 (2018: 0.74). Linde’s 2019 TRCR was more than five times better than the OSHA all industry industrial average (3.1). A recordable case is defined as any recordable injury or sickness of an employee, temporary worker or contractor that results from a work-related incident or exposure per 200,000 hours worked. Linde’s TRCR deteriorated in 2018 due to the inclusion of new businesses that have more manual labor.

- **Annually achieve Commercial Vehicle Incident Rate (CVIR) of <2.5/Million Kilometers**
  The scope is all operations and all employee and contractor commercial vehicle incidents at all severity levels, per million kilometers. The annual vehicle safety target is to maintain Linde’s CVIR at <2.5/million kilometers. In 2019, this target was achieved: Linde’s global CVIR was 2.17 vehicle incidents per million kilometers (2018: 2.05).

  Linde product drivers and product contract drivers drive approximately a billion kilometers each year, equivalent to 68 times around the circumference of the earth each day, in all 100 countries where we do business. Each high-severity vehicle incident is investigated, and the results from the investigation are reviewed by local leadership and Corporate SHEQ, including root cause analysis and corrective actions. In addition, selected high-severity incidents based on results and learnings are reviewed monthly with corporate and regional leadership. Target scope excludes service vehicles.

  **Linde’s 2019 LWCR was 0.23 (2018: 0.32), more than four times better than the OSHA all industry industrial average (1.7).**

  **Linde’s 2019 TRCR (the number of employee or contractor recordable injuries per 200,000 hours worked) was 0.57 (2018: 0.74).**

  Linde product drivers and product contract drivers drive approximately a billion kilometers each year, equivalent to 68 times around the circumference of the earth each day, in all 100 countries where we do business. Each high-severity vehicle incident is investigated, and the results from the investigation are reviewed by local leadership and Corporate SHEQ, including root cause analysis and corrective actions. In addition, selected high-severity incidents based on results and learnings are reviewed monthly with corporate and regional leadership. Target scope excludes service vehicles.

- **By 2019: Offer coatings free of strontium chromate.**
- **By 2021: Offer 100 percent chrome-free slurry product alternatives to the market.**
- **By 2024: No sales of coating slurries that contain Cr(VI) if chrome-free alternatives have been developed and qualified by the original equipment manufacturers (OEMs).**
- **By 2029: No sales of coating slurries that contain Cr(VI).**

The 2019 target was achieved. Surface Technologies introduced replacement coatings to major OEMs, and they have been accepted and incorporated into usage, allowing the OEMs to comply with the January 2019 REACH* sunset date for strontium chromate. As of 2019, Cr(VI)-free products has been introduced to the market that, upon adoption by the aerospace, industrial, and oil and gas industries, have the potential to reduce our usage of Cr(VI)-containing substances of concern by an estimated 8,000–9,000 pounds annually.

These targets were prompted by the requirements of REACH, but go beyond REACH in that they apply worldwide and will eliminate toxic substances not just in Europe, as required by REACH, but everywhere. Surface Technologies continues to develop additional Cr(VI)-free alternative to replace legacy SermeTel systems targeted for elimination in 2029. In addition to the three targets to eliminate Cr(VI)-containing slurries, Surface Coatings expanded its focus and developed replacement coatings that are free of strontium chromate, a chemical that is currently used in several SermeTel® and SermaLon® coatings.
Integrity & Compliance: 100 percent certification to Linde’s Code of Business Integrity (CBI)
All targeted employees are required to certify CBI compliance, except where law or regulation prohibits inclusion. In 2019, Linde achieved this target. One hundred percent of required employees certified that they understood Linde’s Compliance with Laws and Business Integrity and Ethics policies.
Certification is achieved annually for Linde’s CBI and biennially for additional related areas such as Doing Business with the Government; Understanding Anti-Bribery Legislation, Understanding the Foreign Corrupt Practices Act; and others. As indicated in the Governance section on page 28, the Board Audit Committee reviews certification of employees’ understanding of, and compliance with, the company’s Business Integrity and Ethics Policy.
In addition, Linde requires that 100 percent of relevant third parties whose activities could expose Linde to risk adhere to its CBI and Compliance with Laws and Business Integrity and Ethics policies. Linde imposes contractual and training requirements to ensure adherence.
Diversity & Inclusion

This PF has four targets: one for Diversity & Inclusion (target year 2030), two for Community and one for Global Giving.

• Diversity & Inclusion: achieve 30 percent representation of women globally by 2030

The aspirational goal for Linde is to achieve 30 percent representation of females at all levels in Linde’s global professional employee population by 2030. Our baseline of year-end 2019 reports that the percentage of female professionals in the global Linde organization was 27 percent and the percentage of female executives in the global Linde organization was 16 percent. The global organizational goal of 30 percent is intended to apply at all management levels and for all business units and functions.

The scope is all Linde employees. Inclusion is a Linde core value. The company embraces diversity and inclusion in order to attract, develop and retain the best talent and build high-performing teams. Linde’s CBI states that employees must not be discriminated against on the basis of their race, color, religion, gender, gender identity, national origin, age, disability, veteran status, pregnancy, sexual orientation or other protected characteristics. Linde’s Board and management have aligned diversity and inclusion with its business strategies and implemented diversity action planning into business process and performance management and executive compensation. See GRI 405-1 for more information.

Community Engagement

• Complete 550 Projects in Community Engagement

Target scope is all reported employee-based Linde community engagement activity. Linde reported 410 projects in 2019.

Projects are defined as reported by the project team into a Linde database. Linde measures the impact of projects, where applicable, on the community beneficiaries, employees and the company. Analysis shows positive impacts for all three groups. For example, teams report that in 95 percent of projects, the quality of life of the beneficiaries is positively impacted; in 90 percent of projects, teams reported that their own management effectiveness improved; in 96 percent of projects, teams reported positive employee engagement. Results for 2018 are as reported for legacy Praxair. Results for 2019 report a decrease from 2018. This reflects the drop in absolute participation from the legacy Praxair organization because of 2018 divestitures and the fact that the global Linde program was launched during 2019.

Community engagement projects are directed to address local needs. Projects focus on four themes: Education & Diversity (33 percent); Health & Wellness (26 percent); Community Support (25 percent); and Environment (15 percent). See GRI 413-1 for more information.

• Community Relations (U.S.): community impact assessments in engineering project development at all new sites

Scope is all new U.S. large capital projects that pass the regular engineering design process and commence construction. This target was launched in 2020. The Community Impact Assessment is made by the business and project execution teams during the planning of new and/or significant expansions of Linde sites. It includes a discussion with key stakeholders in the community, which may include representatives from municipalities and community organizations; understanding community needs; and a proposal of potential ways to address these community needs and bring positive impact, especially through social, educational or environmental initiatives.

Global Giving

• Global Giving: increase environmental/climate-related philanthropic spend by 50 percent

Target scope is Global Giving donations from corporate and global businesses. The program contributed $654,000 to environmental groups in 2019, up from $555,000 — an 18 percent increase.

The objective of this target is to direct additional Global Giving funds towards initiatives that will have a positive impact on the environment/climate change and to support Linde’s new Climate Change targets. Linde has long-standing relationships with global environmental non-profit organizations such as The Nature Conservancy and the Arbor Day Foundation. Our company also supports regionally-based environmental programs in various countries, including Mexico, Canada, South Korea and India.

See GRI 201-1, 203-1 and 413-1 for more information.
Corporate Governance

A comprehensive review of Linde’s corporate governance framework is provided on our website at: http://www.linde.com. It is also included in the proxy statement, dated April 28, 2020, for the 2020 Annual General Meeting of Shareholders in the Corporate Governance and Board Matters section.

Linde’s Board of Directors consists of 12 Board members, each of whom joined the Board in 2018, when the Praxair-Linde merger closed. Eleven are independent non-executive directors, including the non-executive Chairman of the Board. Linde’s CEO serves as an executive director. The Board currently has four standing committees: Audit Committee, Compensation Committee, Executive Committee, and Nomination and Governance Committee. Each is comprised of only independent directors, except for the Executive Committee, of which the CEO is a member.

The Board maintains oversight of the company’s values and strategy. Each year, it conducts a comprehensive long-term strategic review of the company’s outlook and business plans and provides advice and counsel to management regarding the company’s strategic issues. Linde’s values are considered integral to its long-term sustainable success, and executive compensation rewards performance in financial and strategic non-financial areas. The Board’s role in these areas, as well as in risk management, is described in the company’s annual proxy statement in the Corporate Governance and Board Matters Section, which is available on Linde’s website at: https://investors.linde.com/regulatory-filings.

The Board has oversight of key aspects of the corporate governance structure in areas of particular interest to the sustainability community, such as director independence; split roles of Chairman and CEO; appropriate board committees; board effectiveness; shareholder outreach and alignment with long-term shareholder interests; mechanisms to avoid conflicts of interest; board diversity; limits to service; industry experience; and a comprehensive sustainability program.

Board members are nominated by the Nomination and Governance Committee for election by the shareholders. Nominees are elected each year at the Annual General Meeting. The Nomination and Governance Committee believes that each director has an established record of accomplishment in areas relevant to our business and objectives, and possesses the characteristics identified in our Corporate Governance Guidelines as essential to a well-functioning and deliberative governing body, including integrity, independence and commitment.

Each Board member has executive management and director oversight experience in most, if not all, areas that the Board considers critical to the conduct of the company’s business, including public policies as they affect global industrial corporations, compliance, corporate governance, productivity management, safety management and sustainable development.

Governance of Non-Financial Matters

Linde has established five core values: safety, inclusion, accountability, integrity and community. These are the basis of what the company stands for and how it behaves. A code of ethics has been adopted that provides clear instructions on expected behavior and for reporting concerns about potential non-conformance. This code has been approved by the Linde Board of Directors and is named the “Code of Business Integrity (CBI).” This document is made widely available to employees and third parties and is posted on the company’s website. Governance of Linde’s CBI is described in the Performance section, page 26, as it relates to an SD 2028 target.

It is the view of Linde’s Board that non-financial issues are a component of the company’s values, culture and performance expectations, and are a basis on which employees drive financial results. The Board has confirmed the importance of setting non-financial objectives as part of variable compensation to reinforce leadership’s focus on maintaining a culture that supports both short- and long-term sustainable results. It has established non-financial goals with respect to elements such as safety, environmental responsibility, global compliance, productivity and talent management. These measures are described in Linde’s April 2020 proxy statement. Annual payout of executive variable compensation depends on performance in several strategic non-financial areas, including best-in-class performance in safety, environmental responsibility, global compliance, productivity and talent management.

Linde’s Board monitors the implementation of its CBI, which includes commitments to adhere to high standards for diversity and inclusion; safety; health; care for the environment and quality; human rights; corporate citizenship; and the prevention of bribery and corruption. The Audit Committee oversees the company’s compliance with legal and regulatory requirements. The Compensation Committee oversees diversity and inclusion policies, objectives and programs to achieve those objectives. The Nomination and Governance Committee periodically reviews the company’s guidelines and policies governing its response to important broad public policy issues in the areas of corporate social responsibility and corporate citizenship.

Alignment with Compensation

When setting annual performance-based variable compensation targets and goals, the Linde Board Compensation Committee determined that selected key strategic and non-financial factors will be considered in determining potential variable compensation awards, and to recognize that these factors are also critical to measuring our businesses’ health and the potential for future success. The strategic and non-financial factors are weighed at 25 percent of the total payout. For 2019, management presented the degree of achievement in meeting each goal, and for each element, provided its view of the relative degree of importance to Linde’s long-term success. Based on the results, the Compensation Committee determined that the company’s performance with respect to the strategic and non-financial goals was favorable and set the Corporate strategic and non-financial payout factor at 160 percent of target variable compensation (relative to a 200 percent maximum). The table below illustrates the basis for which non-financial awards were determined.
## Strategic and Non-Financial Performance Goals

<table>
<thead>
<tr>
<th>Goal</th>
<th>Strategy</th>
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| **Safety, Environmental Performance and Sustainability** | • Zero fatalities with fatality potential event reduction  
• No significant process safety or environment events  
• Best-in-class recordable injury, lost workday case and vehicle accident rates  
• Superior performance in sustainable development, including environmental stewardship | 
• Providing employees with a safe operating environment through investing in state-of-the-art technology and by driving a culture in which safety is a top priority  
• Rigorous processes and procedures to ensure compliance with all applicable environmental regulations, to meet sustainable development performance targets and to continuously reduce the environmental impact of the company’s operations in the communities in which it operates |

| People Development | Attraction, retention and development of a diverse and engaged workforce through a robust succession planning process  
Employee value proposition includes providing strong, dynamic leadership, a challenging work environment, industry-leading performance, competitive pay and benefits, and rewards and recognition for outstanding performance |
| --- | --- |
| **Compliance** | Create and maintain a strong ethical culture in every country where Linde operates  
All employees accountable for ensuring that business results are achieved in compliance with local laws and regulations and the company’s CBI |
| **Strategy** | Deliver excellent results in the short-term and over a longer, sustainable period of time  
Rigorously assess the quality and future impact of actions taken, as benefits may not be recognized for several years  
Monitor the “health” of the organization through pulse surveys |

| Project Selection and Execution | Maintain a thorough capital allocation process to ensure careful selection of projects  
Focus on meeting schedules and cost estimates, starting-up plants reliably and efficiently, and supporting plant availability |
| --- | --- |
| **Productivity** | Deliver value through continuous innovation to help Linde’s customers enhance their product quality, service, reliability, productivity, safety and environmental performance  
Work across disciplines, industries and sectors, with employees, customers, suppliers and a range of other stakeholders to get more output, utilizing fewer resources and with less environmental impact |
| **Relative Performance** | Continue to be the best performing industrial gases company in the world  
Assess how well we anticipate and manage adversity to optimize results  
Determine if management’s actions appear more or less effective than those of Linde’s peers  
Appropriately respond to macroeconomic or other external factors unknown at the time financial goals were established |

In determining 2019 variable compensation payouts, the Compensation Committee noted the following as examples of actions that support the company’s strategic objectives:  
• Continued successful merger integration with completion of Linde GmbH cash merger squeeze-out and all regions operating as a single business,  
• Harmonized global policies and practices under integration.  
• Maintained strong compliance culture; new CBI implemented across combined company.  
• Maintained industry-leading project execution.  
• Delivered productivity fully in line with business strategic objectives (total productivity was approximately $767 million).  
• Implemented a global productivity reporting tool and conducted several “best practice” forums.  
• Increased technology impact: digitalization team delivered approximately $32 million of savings.  
• Increased total value of backlog to $4.7 billion; won $1.4 billion Exxon project in Singapore.  
• Continued to develop a diverse pipeline of future senior leaders. **Received Public Recognition:**  
• Dow Jones Sustainability World Index: Ranked in the 97th percentile in the chemicals sector.  
• Consistently listed on major Diversity and Inclusion indices: Bloomberg’s Gender Equality Index, Forbes Best Employer for Diversity, Financial Times Diversity Leaders, and Human Rights Campaign Corporate Equality Index.  
• Subsidiary Praxair, Inc. named a “Top 25 Noteworthy Company” by DiversityInc for the fourth consecutive year. | **Sustainable Development Governance 102-19, 102-20**  
Sustainable development is overseen by the Board and executive leadership and integrated throughout the company.  
**Linde’s Board of Directors:** In 2019, the full Board requested several presentations on issues directly related to sustainable development. Presentations were made on sustainability and climate change, on Linde’s Technology and Decarbonization strategy, and, in January 2020, on Linde’s Climate Change targets. In addition, the Board reviews safety matters at each meeting. A compliance presentation is made annually |
by the Chief Compliance Officer. A presentation is made annually by the Chief Human Resources (HR) Officer on Linde’s program in Diversity and Inclusion.

The Management Committee is the highest executive leadership team. It has responsibility for economic, environmental and social topics, and it oversees and approves of sustainable development strategy and programs. In 2019, they received presentations on all the issues that went to the Board.

Senior Vice President (SVP) is the highest-ranking executive officer responsible for sustainability. He is a member of the executive leadership team and reports directly to the CEO. He is responsible for Global Functions, including R&D, Strategy and Capex, the Center of Excellence (COE), Procurement, Digitalization, Sustainable Development, and Safety, Health, Environment and Quality (SHEQ). Specifically, in relation to sustainability and climate change, the SVP is the highest management level responsible for coordinating the SD 2028 targets, including Linde’s climate change targets. This role logically sits in Global Functions as it is here that the targets are developed (sustainability), most methodologies standardized (various global functions such as SHEQ and R&D, as well as HR and Legal), and performance reported against many of the targets (COE for environmental performance, SHEQ for safety performance, Strategy and Capex for investments in decarbonization, and R&D for innovation and growth related to decarbonization).

Chief Sustainability Officer reports to the SVP and is the highest-ranking functional leader of sustainability. She is the Chair of the Corporate SD Council and coordinates performance and action planning to define and achieve the SD 2028 targets and action plans. She coordinates the development of external sustainable development reporting and responses to external third parties such as the Carbon Disclosure Project (CDP) and Dow Jones Sustainability Index (DJSI). She is also responsible for coordinating consultations with internal and external stakeholders relating to Environmental and Social Governance (ESG) issues (see the Engaging Stakeholders section, page 31) and staying current with emerging issues. She leads the company’s global programs in community engagement, Workforce Development and Zero Waste. She also leads global internal and external engagement on sustainable development issues and ensures the fair, reasonable and transparent treatment of all perspectives.

The Corporate Sustainable Development Council (SD Council) is the corporate committee responsible for the proposal and execution of Linde’s sustainable development strategy, targets and programs. It consists of the heads of functions that support the implementation of Linde’s SD strategy and targets, and the designated heads of Operating Segments, Engineering, and global businesses who lead SD implementation in their areas. The SD Council is the institutional link between the Management Committee and the Board on Linde’s sustainable development. In 2019, the Board and Management Committee requested that the SD Council develop Linde’s new SD 2028 targets, specifically, its targets and strategy on climate change and decarbonization. This work was provided by the Climate Change Council, whose work has now been folded into the Corporate SD Council.

Corporate Climate Change Council: Climate change is considered a material issue for Linde. Linde reports on this issue in its 10-K and in the Combined Non-Financial Report in the Linde plc 2019 Directors’ Report and Financial Statements. At the request of the Management Committee, Linde established a Climate Change Council in 2019 to develop Linde’s climate change strategy. Its work has now been integrated into the Corporate SD Council. The Council was coordinated by the Sustainable Development function, and its members were drawn from global functions and businesses. The Council established Linde’s 2028 Climate Change targets. They were approved by the Management Committee and the Board in early 2020 and announced by our CEO at the earnings conference call held on February 13, 2020. In 2020, Linde formed the Linde Clean Hydrogen team to serve as a focal point for green hydrogen and clean fuels.

Business SD Councils are established in each Linde Operating Segment and global business. They are comprised of functional leads and coordinated by a business-level Sustainable Development leader, supported by an SD Coordinator, both appointed by that business’ president. Business Councils meet quarterly. They lead business- and functional-level internal and external engagement on sustainable development and coordinate the implementation of local sustainable development action plans and Linde’s Sustainable Development Management System (SDMS). Business SD Coordinators participate in a monthly global meeting coordinated by the office of Sustainable Development. Participants in these meetings typically also include the SVP and a range of corporate functional sustainable development leads (e.g., for Legal, Procurement, Productivity, SHEQ, R&D, HR and Communications). They share sustainable development best practices and challenges between corporate groups and the businesses.

Linde’s new 10-year SD (SD 2028) targets were set in 2019 and are baselined in 2018 to reflect the starting year of the combined company. They were developed at the request of Linde’s Board and Management Committee, who approved them in early 2020. Their development was coordinated by the Chief Sustainability Officer, working with the businesses and multiple functions, and with the Corporate Sustainable Development Council and its subsidiary, the Corporate Climate Change Council. Moreover, they are managed targets; the businesses are accountable for achieving them. Reporting on specific targets is consolidated and coordinated by one or more corporate functional vice presidents and is reviewed internally (in most cases, monthly). Linde’s energy and climate change targets are reported each month from the businesses and reviewed at a monthly global meeting of the COE, led by its vice president. The meeting tracks trends against targets and seeks opportunities to replicate best practices. The Chief Sustainability Officer participates in this meeting. This monthly report is then provided to the Finance office, the CFO and the Management Committee.

Other operational targets for water, sustainable productivity, zero waste and community engagement also report monthly into the COE meeting.

Community Engagement and Workforce Development programs are led by the Sustainable Development function. Community engagement encourages business programs that engage employees in volunteerism in their communities. “Community” is a core company value; community engagement is considered a leadership activity. Linde sites maintain a strong Community Engagement program. Workforce Development programs have been designed and launched with community partners in a range of areas from welding to additive manufacturing to heavy-duty truck driving.

External sustainability reporting and the external audit of sustainability information are coordinated by the Chief Sustainability Officer.
Engaging Stakeholders

This section describes ongoing engagement on key topics with several relevant stakeholder groups. They are invited to voice their opinions, which in turn provides value to the company. Stakeholder feedback was integrated into Linde’s process to determine PFs, KPIs and our SD 2028 targets. See Sustainable Development Targets 2028, page 12.

**Employees**

Linde is committed to the safety, well-being and professional development of all employees worldwide. The company is committed to providing a safe and inclusive workplace with an emphasis on the highest standards of integrity and professional performance. This allows Linde to maintain a high rate of employee engagement, which in turn helps attract and retain talent.

<table>
<thead>
<tr>
<th>Group</th>
<th>Frequency</th>
<th>Key Topics</th>
<th>Response to key topics</th>
</tr>
</thead>
<tbody>
<tr>
<td>All employees</td>
<td>Continuous</td>
<td>• Pay</td>
<td>• Linde provides a range of employee benefits that reward performance.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Conditions</td>
<td>• Linde has a robust training and development program and annual employee performance appraisals.</td>
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<tr>
<td></td>
<td></td>
<td>• Retention</td>
<td></td>
</tr>
<tr>
<td>All employees</td>
<td>Continuous</td>
<td>• Employee retention and engagement</td>
<td>• Linde was named a Top Noteworthy Company by DiversityInc, an organization that measures the top global companies for workplace diversity and a culture of inclusion.</td>
</tr>
</tbody>
</table>
|                        |                   |                                         | • Linde’s worldwide 2019 employee engagement scored favorably relative to established benchmarks.

**Customers**

Customer retention is crucial to Linde’s results. A significant portion of Linde revenue is earned from recurring customers and retained accounts. We target a retention rate of more than 90 percent, and have achieved this in 2019 and in prior years.

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</tr>
</thead>
<tbody>
<tr>
<td>All customers</td>
<td>Continuous and periodic</td>
<td>• Productivity</td>
<td>• Work continuously to offer customers relevant technologies to improve their resource efficiency and positive environmental impacts, particularly in energy use and the reduction of GHG emissions.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Competitive advantage</td>
<td></td>
</tr>
<tr>
<td>All customers</td>
<td>Continuous and periodic</td>
<td>• Safety</td>
<td>Globally, Linde assures customers of safe, reliable and quality supplies of critical ingredients. For example:</td>
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<tr>
<td></td>
<td></td>
<td>• Product knowledge</td>
<td>• Throughout the COVID-19 pandemic, Lincare remains committed to ensuring continued care to 1.6 million patients across the U.S., providing in-home services to patients with underlying chronic medical conditions, and helping to increase critical hospital capacity by transitioning respiratory patients and others from in-patient to in-home care.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Quality</td>
<td></td>
</tr>
<tr>
<td>Subset concerned about ESG issues</td>
<td>Periodic</td>
<td>• Climate Change</td>
<td>Globally, Linde works with customers to improve their energy efficiency and reduce GHG emissions. For example:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Energy Efficiency</td>
<td>• Linde responds to around a dozen customers each year from several geographies that seek information as part of the CDP supply chain assessment. Linde’s 2019 Supplier Engagement Rating Score was A−, compared to an average rating of C in our sector.</td>
</tr>
<tr>
<td>Collaboration for innovation</td>
<td>Continuous</td>
<td>• Competitive advantage and customer satisfaction</td>
<td>Consistent with our vision and mission, the company is committed to helping customers by delivering innovative and sustainable solutions. In many cases, its innovative technology solves environmental challenges, allowing its customers to be more productive while using fewer natural resources and energy, and producing fewer emissions. For example:</td>
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<td></td>
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<td></td>
<td>• Linde and BASF won the ICIS Innovation Awards for Best Process: Linde’s DRYREF™ syngas process in combination with BASF’s SYNSPIRE™ catalyst enable steam reforming of methane in dryer conditions and the use of CO₂ as feedstock, contributing to energy savings and an improved CO₂ footprint.</td>
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</table>
**Shareholders**  102-40, 102-42, 102-43, 102-44

Linde has a strong shareholder focus. Meetings held with investors and broader ESG groups confirmed Linde’s ongoing commitment to sustainability. We emphasized that priorities were to retain our respective strong programs, to develop our Sustainability and Climate Change targets and to integrate sustainability globally across Linde.

<table>
<thead>
<tr>
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<th>Key Topics</th>
<th>Response to key topics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Regular investors</td>
<td>Continuous</td>
<td>• Shareholder return</td>
<td>In 2019, Linde’s stock performance outpaced all major indices (e.g., DOW, S&amp;P 500 and DAX).</td>
</tr>
<tr>
<td>ESG investors</td>
<td>Continuous</td>
<td>• ESG and sustainability</td>
<td>Linde is frequently recognized for outstanding performance in sustainability. We consistently excel in premier sustainability investment indexes and rankings. Linde is listed on major investment indexes such as the SAM Corporate Sustainability Assessment World Dow Jones Sustainability Index (DJSI), FTSE4Good and STOXX. Linde was awarded a Silver Class distinction in SAM’s Sustainability Yearbook 2020 and scored second highest in the global chemical sector. Results are based on the 2019 Corporate Sustainability Assessment, which assessed more than 4,700 companies across 60 industries, and scored second highest in the global chemicals sector. The Sustainability Yearbook is the world’s most comprehensive publication on corporate sustainability, awarding recognition to 458 organizations. Companies with a Silver Class distinction must achieve a score that is within 5% of the score for the best-performing company in their industry. This is Linde’s second consecutive acknowledgement by The Sustainability Yearbook since the merger between Linde GmbH and Praxair, Inc. in 2018.</td>
</tr>
</tbody>
</table>

**Suppliers**  102-40, 102-42, 102-43, 102-44

Linde infuses its core values through supply chain engagement initiatives structured to cultivate supplier capacity. This drives better business performance, sustains higher quality and improves eco-proficiency and product development, including access to innovation. We optimize initiatives locally and across the globe by focusing on select commodities and distinct groups of suppliers.

<table>
<thead>
<tr>
<th>Group</th>
<th>Frequency</th>
<th>Key Topics</th>
<th>Response to key topics</th>
</tr>
</thead>
</table>
| Electric utility and capital equipment suppliers | Continuous| • Energy efficiency     | • Linde works with our electricity and capital equipment suppliers around the globe to identify and implement programs that optimize energy efficiency in our offices and facilities.  
• A new energy supply contract will bring additional carbon-free electricity to one of Linde’s corporate headquarters in Danbury, Connecticut, through November 2023. This contract, together with the renewable energy from the solar panels in the parking lot, means that the Danbury headquarters energy sourcing will be entirely carbon-free. |
| Contract drivers                                | Continuous| • Safety                | • Contract drivers receive the same or comparable levels of training as Linde drivers.                                                                                                                                 |
| Minority suppliers                               | Continuous| • Capacity building     | • Linde seeks to promote engagement and help build capacity among suppliers designated as diverse business enterprises. For example:  
• Over the last four years, Afrox, Linde’s subsidiary in South Africa, has been the driving force behind more than 10 small enterprises. This is part of Afrox’s commitment to kick-start, support and build small black-owned businesses capable of meeting the needs of the company’s strategy in terms of procurement, transport and penetrating new markets. |
Communities 102-40, 102-42, 102-43, 102-44

Community is a Linde value. Linde is, at its core, a “local” company. We make long-term investments in communities where we build facilities, source locally for talent, leadership and suppliers. This, in turn, helps strengthen Linde’s reputation and business relationships.

<table>
<thead>
<tr>
<th>Group</th>
<th>Frequency</th>
<th>Key Topics</th>
<th>Response to key topics</th>
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</table>
| Linde corporate/Global Giving Program | Continuous | • Diversity  
• Education  
• Healthcare  
• Environment  
• Community resilience | • Community engagement is a part of Linde’s culture and is encouraged by leadership. Linde engages with its communities by building close relationships with local providers of emergency services, with employee volunteer projects that help build community resilience and through the Linde Global Giving Program (see GRI 201-1, 203-1, 203-2, 413-1, 413-2).  
• Linde has a strong community engagement program and activity in all businesses (see GRI 203-1, 203-2, 413-1, 413-2).  
• For example in 2019, 300,000 children and students benefitted from our efforts in Community Engagement. |

Government Agencies 102-40, 102-42, 102-43, 102-44

Linde has a strong global ethics and compliance program. Linde’s Government Relations department participates in discussions with international, national and sub-national governmental bodies regarding legislation that impacts our business, drives energy efficiency, delivers positive outcomes in electricity regulation and supports our unique technologies to produce clean energy. See GRI 415-1.

<table>
<thead>
<tr>
<th>Group</th>
<th>Frequency</th>
<th>Key Topics</th>
<th>Response to key topics</th>
</tr>
</thead>
</table>
| Government agencies    | Continuous| • Compliance             | • Linde maintains a detailed oversight process to ensure that its activities are conducted in a legal, ethical and transparent manner.  
• Linde certifies employees on issues related to doing business with the government and complying with anti-trust and competition laws and the U.S. Foreign Corrupt Practices Act (FCPA).  
• Linde meets with international, national, subnational and local government officials to discuss energy costs, energy efficiency, tax and trade-related issues and the environmental benefits of Linde technologies. |

Industry Associations and Groups 102-40, 102-42, 102-43, 102-44

Linde is a member of a range of trade associations, business associations and alliances, including national chemical associations and industrial gas associations in the company’s key geographies, and manufacturer’s associations and chambers of commerce, through which it engages in dialogue with government officials and stakeholders about issues that are important to the company and its business. See GRI 102-13 for a full list of industry associations.

<table>
<thead>
<tr>
<th>Group</th>
<th>Frequency</th>
<th>Key Topics</th>
<th>Response to key topics</th>
</tr>
</thead>
</table>
| Industry groups   | Continuous| • Policy development   | • In many cases, a Linde executive holds a board seat and/or serves on a relevant committee, or Linde participates in projects where it views membership as a strategic partnership.  
• Linde also participates in additional local and regional organizations. |
| Chemical industry | Continuous| • Responsible Care®     | • Linde is externally audited for conformance to the Responsible Care Management System® (RCMS®) and is a signatory of the Responsible Care® Global Charter. |
Additional General Disclosures
102-11 Precautionary Principle or approach
Linde supports the Precautionary Principle as defined in Principle 15 of the Rio Declaration: “In order to protect the environment, the precautionary approach shall be widely applied by States according to their capabilities. Where there are threats of serious or irreversible damage, lack of full scientific certainty shall not be used as a reason for postponing cost-effective measures to prevent environmental degradation.”

102-12 External Initiatives
Linde’s Code of Business Integrity (CBI) and corporate policies are provided on its website at: https://www.linde.com/en.

- Linde's CBI makes clear its commitment to values such as ethics, integrity, fairness, diversity, compliance and human rights.
- Linde's Code also confirms that Linde abides by the principles of the International Bill of Human Rights enacted by the United Nations, and does not condone or engage in discrimination; harassment; violations of privacy, slavery or servitude; restrictions on free assembly; or unfair employment practices. Linde commits to adhering to these human rights principles and expects similar standards to be observed by all with whom it conducts business.
- Linde's global environment, health, safety and security program conforms to the Responsible Care Management System® (RCMS®) requirements, as verified by a third party. Management is committed to the new Responsible Care Global Charter and its Six Elements, and to Responsible Care Guiding Principles that are stated in Linde's Commitment to Stakeholders. Both are provided on the company's website at: https://www.linde.com/en/about-linde/safety.
## 102-13 Memberships of associations

Memberships of Associations (such as industry associations) and national or international advocacy organizations where Linde:

<table>
<thead>
<tr>
<th>Global</th>
<th>Holds a position on the governance body</th>
<th>Participates in projects or committees</th>
<th>Provides substantial funding beyond routine membership dues</th>
<th>Views membership as strategic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrogen Council</td>
<td>X</td>
<td>X</td>
<td>0</td>
<td>X</td>
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<tr>
<td>International Oxygen Manufacturers (IOMA)</td>
<td>X</td>
<td>0</td>
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<tr>
<td>Americas</td>
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<tr>
<td>American Chemistry Council (ACC)</td>
<td>0</td>
<td>X</td>
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<td>X</td>
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<tr>
<td>American Fuel and Petroleum Association (Associate Member)</td>
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<td>X</td>
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<tr>
<td>American Institute of Chemical Engineers (AICHE)</td>
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<tr>
<td>American Iron and Steel Institute (Associate Member)</td>
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<tr>
<td>Business Council for International Understanding</td>
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<td>X</td>
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<tr>
<td>Compressed Gas Association (CGA) (U.S.)</td>
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<tr>
<td>HR Policy Institute</td>
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<td>Louisiana Chemical Association</td>
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<td>National Enhanced Oil Recovery Initiative (NEORI)</td>
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<tr>
<td>NY Chemistry Council</td>
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<td>Puerto Rico Manufacturers Association</td>
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<tr>
<td>Society of Human Resource Management</td>
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<tr>
<td>Texas Association of Manufacturers</td>
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<td>Texas Taxpayers and Research Association</td>
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<td>U.S. - China Business Council</td>
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<tr>
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<tr>
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<td>American Chamber of Commerce</td>
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<tr>
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<td>Deutsches Aktieninstitut</td>
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<td>econsense – Forum Nachhaltige Entwicklung der Deutschen Wirtschaft e. V.</td>
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<tr>
<td>European Industrial Gas Association</td>
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<tr>
<td>European Petrochemical Association (EPCA)</td>
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<tr>
<td>Förderkreis der Deutschen Industrie e. V.</td>
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<tr>
<td>Hydrogen Europe</td>
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<tr>
<td>Ost-Ausschuss der Deutschen Wirtschaft</td>
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<tr>
<td>Stifterverband für die Deutsche Wirtschaft</td>
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<tr>
<td>Verband der Chemischen Industrie VCI</td>
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<tr>
<td>Verband Deutscher Maschinen- und Anlagenbauer (VDMA)</td>
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</tr>
<tr>
<td>Verein d. Bayerischen Chemischen Industrie</td>
<td>X</td>
<td>X</td>
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<td>X</td>
</tr>
</tbody>
</table>

**Key**

- yes
- no

| GEN (1): Memberships of Associations |
102-40 Stakeholder groups engaged by the organization

Selected stakeholder recognition:

Recognition by SRI Investors
See full listing in the Sustainable Development/Recognition area on the company’s website at: http://www.linde.com. Linde is listed on major ESG investment indexes, including the following:

- SAM Corporate Sustainability Assessment World Dow Jones Sustainability Index (DJSI)
- FTSE4Good
- STOXX

Business and Regional Recognition

Employees
- Diversity Inc.'s Noteworthy Companies for Diversity
- 2019 Bloomberg Gender-Equality Index
- Forbes America's Best Employers for Diversity
- Employer of the year award in Industry Associations & Professional Associations category: Grand Prix of Industry Days (Hungary)
- Exame Diversity Guide: Company of the Year award, Racial category (South America)
- Family-friendly Corporation Certificate by the Korean Ministry of Gender Equality and Family (Korea)
- Faz Diferença "Make the Difference" Prize from O Globo, FIRJAN, and Valor Econômico (South America)
- One of Greater Toronto's Top 100 Employers for the seventh year in a row by Mediacorp Canada Inc.
- Praxair Mexico recognized as a "Super Company" by the business magazine, CNN Expansión (from the Time Inc. group).
- Responsible Care Employer of the Year award (Hungary)
- UN Women Brazil Bronze Award (South America)
- Women in Leadership Award (WILL) Valor Economico, O Globo Época Negócios and Marie Claire (South America)

Safety
- Bronze recognition from the Occupational Safety and Health Division, Ministry of Labour, for Zero Accident Campaign (Thailand)
- Bronze Safety Award: Sectoral award in the manufacturing sector by Zimbabwe National Social Security Authority (Harare, Zimbabwe)
- CN Safe Handling Award (Canada)
- Disaster Free Award Omiya Aria Labor Standards Association Takakuwa (Surface Technologies, Okegawa, Japan)
- EIGA gold diploma for 1 million working hours without LWC (Denmark)
- EIGA gold diploma for 15 years without employee LWC (Denmark)
- EIGA Gold Star award to Aksaray and İzmir plants for 20 subsequent years without any lost time accident (Turkey)
- EIGA Road Safety Award for bulk big fleet (Germany)
- EIGA Road Safety Award for PGP big fleet (UK)
- EIGA Road Safety Award for PGP small fleet (Norway)
- EIGA Silver Star award to Adana plant for 10 subsequent years without any lost time accident (Turkey)
- Gas Safety Contribution Award by Korea Gas Safety Corporation (Korea)
- Merit Award for safety standards in manufacturing processes to Ceylon Oxygen Limited, National Occupational Safety & Health Excellence Awards (Sri Lanka)
- Recognition for outstanding occupational health and safety performance by the Malaysian Society for Occupational Safety & Health
- Shortlisted for Motor Transport Safety in Operation Award (UK)
- Silver Safety Award: Sectoral Award in Commerce and Distribution by Zimbabwe National Social Security Authority (Mutare, Zimbabwe)
- Transport and logistics Safety Sector to Ceylon Oxygen Limited, National Occupational Safety & Health Excellence Awards (Sri Lanka)
- Utthama Suraksha Puraskara Award to the Toranagallu site from the National Safety Council (India)
- VIS Prevention Award for extraordinary safety work (Iceland)
- Workplace Safety and Health Awards certificate of commendation from Ministry of Manpower (Singapore)

Communities and Community Groups
- Bronze Award for the Most Unique Innovation to BOC, recognized at the 2019 Workplace Giving Excellence Awards (UK)
- Recognition as a socially responsible company by the Mexican Center for Philanthropy and the Alliance for Corporate Social Responsibility for the tenth consecutive year (Mexico)
Customer and Customer-Related
- “5 Stars Award” for best Homecare provider (Portugal)
- “Best Sleep Therapy Provider” Award by Sleep Apnea Organization (The Netherlands)
- “Exceptional” supplier report card rating in the last three quarters of 2019 by Intel (Ireland)
- Best Contribution Award from Samsung (Korea)
- Best Supplier on SHE Management and Operation by SK Hynix (Korea)
- Chemical and Petrochemical Supplier of the Year by Braskem (South America)
- Consumidor Moderno in recognition of call center excellence (South America)
- Recognized by Coca-Cola Malaysia as the Best Quality Supplier Award based on sustainability in quality, supply reliability, timely delivery, account management, innovation and fulfilling primary requirements. (Malaysia)

Industry Associations, Professional Associations and Government Agencies
- “2019 Business of the Year” Award from the Ndola Chamber of Commerce and Industries (Zambia)
- Department of Industrial Work recognition to Linde HyCO and Wellgrow for outstanding factory from Department of Industrial Work (Thailand)
- Export Tower Award from the 54th Trade Day Celebration held by the Korea International Trade Association (Korea)
- First place in Industry category, Large Companies, Production of Industrial Gases, by the Romanian Chamber of Commerce and Industry (Romania)
- Recognition by Manpower Agency of Banten Province for successfully completing assessment for government recognition, Zero Accident Award (Indonesia)
- Recognition for Job Creation Contribution by the Ministry of Employment and Labor (Korea)
- Youth-friendly Small Giants Certificate recognition by the Ministry of Employment and Labor (Korea)

Environment
- Air Compliant Excellence Award program (Surface Technologies)
- EIGA Environmental Award for Drive Companion application, focusing on reducing fuel consumption of drivers
- Exame Sustainability Guide for the 6th consecutive year (South America)
- Green Chemistry Application and Innovation Award from the Environmental Protection Administration (Taiwan)
- Green Seal office partner: Linde offices in Burr Ridge, IL; Danbury, CT; Sierra Pines, TX; Tonawanda, NY; Seoul, Korea; Bangalore, India
- Recognition by Process Vogel Verlag for First Place in Top Products for Linde LoTOx®
- Recognized for carbon footprint by Thailand Greenhouse Gas Management Organization (Thailand)
102-46 Defining report content and topic boundaries

Linde’s 2019 Directors’ Report and Financial Statements provides non-financial information in accordance with Irish rules for reporting. Linde’s annual Sustainable Development Report (this report) provides additional quantitative and qualitative non-financial information the company believes to be relevant to stakeholders and key to driving long-term sustainable results and disclosures based on the Global Reporting Initiative (GRI) Sustainability Reporting Standards.

In the sustainability reporting ecosystem, the GRI Sustainability Reporting Standards is one of several key frameworks and standards for voluntary disclosure. It is designed to provide sustainability information of relevance to a broad range of stakeholders, such as employees and potential employees, communities, customers, suppliers, regulators and the general public. Linde is also aligned with other reporting frameworks; see the “Reporting Frameworks Applied” section.

This report scope is for the full Linde plc organization and for the calendar year 2019.

Information is provided from entities where Linde is the majority shareholder (more than 50 percent) and certain joint ventures (JVs). It excludes data from entities where Linde has a minority interest.

Principles for Defining Report Content and Quality

Consistent with the GRI Standards and to define the content and the quality of data and narrative in this report, the company followed the principles of being context-driven, inclusive, material, responsive and complete, and had data externally assured in Priority Factor (PF) areas.

Data Consolidation and Reporting

Various databases are managed across Linde to aggregate data. Data is collected from the businesses and other corporate functions, including Safety, Health, Environment & Quality (SHEQ), Human Resources (HR), Finance, Operations, Center of Excellence (which includes Procurement and Productivity), R&D, Sales, Sustainable Development and the Global Giving Program. Consolidated information is housed in various corporate databases. Linde uses a licensed global sustainability reporting software program to integrate data reporting for sustainable development. Performance data is reported against the Linde Sustainable Development 2028 (SD 2028) targets to a management team.

See 103-1, 103-2 and 103-2 for management discussion and analysis (MD&A) for economic, environmental and social topics.

Reporting Frameworks Applied

This report drew on these voluntary reporting frameworks:

GRI Sustainability Reporting Standards (GRI SRSs). This report has been prepared in Accordance with the GRI Standards: Core option. For the GRI Content Index Service, GRI Services reviewed that the GRI Content Index is clearly presented and the references for all disclosures included align with the appropriate sections in the body of the report. See the Content Index at the end of this report.

Those standards that are considered material are marked within this Annex by the following symbol: ❗️

1. The Task Force on Climate-Related Financial Disclosures (TCFD) framework was used to ensure that disclosures about climate change are linked to information about financial performance in mainstream financial reports. See Linde TCFD Index at: https://www.linde.com/about-linde/sustainable-development/reporting-center.

2. The International Integrated Reporting Framework provides a framework for investors and other stakeholders to gain greater insight into the medium- and long-term sustainability of a company. It proposes that a company should report how it manages all its six capital flows: financial capital as well as human, intellectual, manufactured, natural, and social and relationship (sometimes referred to collectively as “social capital”), and the connectivity between them.

102-48 Restatements of information

Reporting Pro Forma 2018

- The major restatements in this report relate to the provision of “pro forma” performance data for 2018. In Linde’s 2018 SD Report, much of the data provided was based on a financial boundary, which counted 10 months of legacy Praxair (as the accounting acquirer) and two months of the newly combined Linde plc. This is correct from a financial accounting point of view but does not allow for trends to be determined from 2018–2019. Pro forma financial information was provided in Linde’s 2019 Annual Report to allow for meaningful trends to be reported. For the SD Report, there was an additional reason, which is that 2018 is the baseline year for Linde’s new SD 2028 targets.

- “Pro forma” definition: Pro forma means a calculated number or result that is not related to the official financial boundaries, reporting scope or period. A pro forma number serves as an indicator of what the result of the new merged company would theoretically look like if the new company had reported for the complete year and applied new company reporting boundaries and methodologies. As an example, financial reporting for 2018 was based on a full year of Praxair results plus two months of Linde GmbH (previously Linde AG), as the merger legally took place at the end of October 2018. The 2018 pro forma result, in contrast, reflects the complete 2018 calendar year.

Changes in Reporting of 2018 Numbers

- In 2019, Linde defined new reporting boundaries and methodologies for the reporting of its environmental Key Performance Indicators (eKPIs), including its reported greenhouse gas (GHG) emissions. Linde includes in its eKPI inventory all subsidiaries that are fully consolidated in its profit-and-loss (P&L) statement under US-GAAP rules. At-equity JVs and minority holdings that are not consolidated in the P&L are excluded.

- For Scope 2 emissions, Linde reports for electricity that is purchased by the company. Sites where Linde does not pay the utility bill are reported as Scope 3. Electricity consumed that is not purchased is tracked internally for operational purposes.

- Total GHG emissions: Applying Linde’s new boundary and methodologies to 2018 numbers, the previously estimated 2018 pro forma GHG emissions decreased from 42 million MT CO2e (17 million Scope 1, 25 million Scope 2) to 38 million MT CO2e (16.9 Scope 1, 21.1 million Scope 2). The revised pro forma Scope 1 and 2 emissions have been audited, as well as the underlying power consumption.

- All other eKPIs have also been re-stated for 2018 and full-year pro forma numbers are now reported, which are based on Linde’s new reporting boundaries and methods. Changes in methodology are described in each respective section of the Environment chapter.

Changes in Reporting of 2018 Numbers for Linde’s SD 2028 Targets

- Pro forma 2018 values were used to report baselines for:
  - Climate Change targets relating to decarbonization investment and R&D spend on decarbonization
  - Operational Climate Change target
  - Safety targets

- Safety: The vehicle safety target is now measured in kilometers, and this baseline was also adjusted.

- For the target that a subset of Linde applications should enable more than twice the GHG to be avoided than was emitted in all its operations: The change in reported pro forma 2018 GHG emissions changed the reported ratio for this claim to 2.5x (from 2.2x).

- Ethics and Integrity, Community Engagement and Global Giving report for Praxair only for 2018.


- The new Diversity target reports from a 2019 baseline; 2018 is reported as n/a.

102-49 Changes in reporting

See 102-48.
103-1 Explanation of the material topic and its boundary
103-2 The management approach and its components
103-3 Evaluation of the management approach

Economic Management approach for material aspects 103-1, 103-2, 103-3

Financial performance is reported in Linde’s financial reports. The economic dimension of sustainability is broader: it concerns the organization’s impacts on the economic conditions of its stakeholders and on economic systems at the local, national and global levels. The Economic category illustrates the flow of capital among different stakeholders as well as the main economic impacts of the organization on investors, governments, employees, customers, suppliers and communities where the company operates or has an effect. This section reports on Linde’s contribution to the sustainability of a larger economic system: its economic performance, market presence and indirect economic impacts.

Organizational Responsibility, Accountability and Incentives
Linde’s Chief Executive Officer (CEO) and the Board of Directors are accountable for the economic health of the company. Responsibility for performance lies with the businesses. Performance is consolidated and reported to the Board by the responsible executives: the Chief Compliance Officer (CCO), Chief Technology Officer (CTO), Chief Human Resources Officer (CHRO), Chief Sustainability Officer and the vice presidents of Safety, Health, Environment and Quality (SHEQ), Center of Excellence (COE) and Global Procurement.

Sound integrity is a corporate value, an expectation of behavior and non-negotiable. Linde’s CBI affirms its commitment to fairness, transparency and trust as the basis for growth and prosperity for employees, customers, suppliers, markets and its communities. The Board of Directors is responsible for monitoring the implementation of the CBI. Its responsibilities include the periodic review of the policy and overseeing management’s preventive, reporting, investigation and resolution programs for implementing this policy. The Code is posted on the company website and is communicated to employees. It provides clear instructions on expected behavior to conform with the Code and for reporting of concerns about potential non-conformance. Employees also receive training and certification to the Code. Subcontractors and other stakeholders are expected to follow this standard. The Board Audit Committee is responsible to review the processes and results for certification of employees’ understanding of, and compliance with, the company’s Business Integrity and Ethics Policy.

Linde has appointed a CCO within the department of global Legal and Compliance, who reports to the General Counsel, who reports to the CEO. Compliance with policies prohibiting corruption or anti-competitive behavior, the maintenance of Linde’s reputation for strong ethics and integrity, and the protection of human rights are managed under the CCO.

The Board’s Audit Committee reviews the company’s key compliance risks and compliance program, including that program’s design, implementation and effectiveness, with the CCO and the General Counsel.

Linde follows the law and is governed by all local laws wherever it is located. In the event of a conflict between local law and the CBI or company policy, Linde will follow the stricter standard within the framework of the applicable laws.

The issues of information and cybersecurity fall under the remit of the Board Audit Committee. In addition, the full Board reviews cybersecurity as part of its regular risk reviews. Linde has appointed a Global Chief Information Officer (CIO) reporting to the chief financial officer (CFO). The CIO is the senior functional head of information and cybersecurity. A Chief Cybersecurity Officer reports to the CIO.

Linde’s executive annual variable compensation is impacted by performance in non-financial areas considered to be Strategic Business Objectives. These include achieving best-in-class performance in several areas, including global compliance.

Policies, Commitments, Goals and Targets

As described in Sustainable Development Targets 2028 (102-47) on page 12, Linde’s sustainability Priority Factors (PFs) are aligned from both legacy companies and have related KPIs. Linde’s economic PF is Integrity & Compliance, which has a related SD 2028 target. In addition, several of the Climate Change targets are economic and environmental. See Performance Towards Targets on page 21. The 200 series disclosures report against the relevant GRI Standards for these PFs, in addition to GRI disclosures that are not PFs but that may be of interest to various external stakeholders.
Mechanisms for Grievance and Recourse
Values and policies are actively communicated to employees around the world to outline Linde's expectations of conduct wherever it does business. Linde takes these standards very seriously, and non-compliance can result in severe disciplinary action, up to and including termination of employment. Its employees are actively encouraged to report suspected complaints and concerns, or to anonymously report violations, through a number of channels, including the Integrity Hotline. It also encourages customers, vendors or other observers to use the hotline to submit complaints or allegations about these or other matters. The company provides an annual report of Linde incidences of substantiated hotline reports on its website at: http://www.linde.com/about-linde/sustainable-development/reporting-center/hotline-reports.

Programs, Projects, Initiatives
These are described in the 200 series disclosures.
Environmental Management approach for material aspects 103-1, 103-2, 103-3

The environmental dimension of sustainability concerns an organization’s impacts on natural systems, including ecosystems, land, air and water. Linde’s business depends on a natural resource (the air), and the company’s mission and business model both aim to create more value with fewer resources. Its PFs in sustainable development include a range of environmental aspects aimed at reducing operational environmental impacts and maximizing environmental contributions — the benefits that Linde applications bring to customers and the planet.

Organizational Responsibility, Accountability and Incentives
Linde’s CEO and the Board of Directors are accountable for environmental issues impacting the company. Linde’s full Board of Directors has responsibility for reviewing safety and environmental risk at each Board meeting.

Responsibility for performance lies with the businesses. Performance is consolidated and reported to the Management Committee and to the Board. Linde’s SVP accountable for Global Functions is the most senior officer responsible for environmental issues. Global Functions includes R&D, Capex, Digitalization, COE, Global Procurement, Sustainability, and SHEQ. Linde environmental compliance and management are managed under the vice president, SHEQ, who reports to the SVP. The SHEQ organization develops and maintains consistent methodologies, procedures and reporting. Safety and environmental responsibility are two of Linde’s values, and therefore, are non-negotiable.

Linde’s water program and water target are led and maintained by COE, which also leads and maintains its program in Sustainable Productivity. The Zero Waste program is led and maintained by Sustainable Development. Linde’s Sustainable Development Management System (SDMS) provides a monthly dashboard to review performance towards environmental targets. It is jointly coordinated by SD, COE and SHEQ. Climate change targets are also reported monthly from the SDMS to the finance organization and CFO.

Linde’s executive annual variable compensation is impacted by performance in non-financial areas considered to be Strategic Business Objectives. These include achieving best-in-class performance in several areas, including productivity and environmental responsibility.

Policies, Commitments, Goals and Targets
Linde has a CBI and a global HSE Policy, both with commitments to environmental stewardship. Linde has issued a Sustainable Development and Climate Change Position Statement.

As described in Sustainable Development Targets 2028 (102-47) on page 12, Linde’s Environmental PFs are Climate Change and Environment, Safety & Health. Each of these PFs has related SD 2028 targets; see Performance Towards Targets on page 21. The 300 series disclosures report against the relevant GRI Standards for these PFs, in addition to GRI disclosures that are not PFs but that may be of interest to various external stakeholders.

Mechanisms for Grievance and Recourse
Linde policies are communicated to employees around the world to outline its expectations of conduct wherever it does business. It takes these standards very seriously, and non-compliance can result in severe disciplinary action, up to and including termination of employment. Linde employees are actively encouraged to report suspected complaints and concerns, or to anonymously report violations, through a number of channels, including the Integrity Hotline. The company also encourages customers, vendors or other observers to use the hotline to submit complaints or allegations about these or other matters. The company provides an annual report of Linde incidences of substantiated hotline reports on its website at: http://www.linde.com/about-linde/sustainable-development/reporting-center/hotline-reports.

Programs, Projects, Initiatives
In addition to the material below, see the 300 series disclosures.

Training
Environmental and safety training is conducted for all employees and all contractors, as defined in the SHEQ Management System and Standard Operating Procedures (see 404-1). On-boarding and ongoing training is conducted as part of the SDMS.

Environmental Management System (EMS)
Linde’s strong worldwide environmental management system ensures that measures are in place to enable pollution prevention and control, the responsible management of direct and indirect atmospheric emissions and waste, the protection of natural resources and biodiversity, and the management of environmental impacts from transportation or from the use and disposal of products and services. Linde is a member of the chemical industry Responsible Care program. It strives to continually improve its health, safety and environmental performance; listen and respond to public concerns; work with customers, carriers, suppliers, distributors and contractors to foster the safe and secure use, transport and disposal of chemicals;
achieve optimum environmental performance; and report goals and progress to the public. Linde’s global Environmental Management System (EMS) conforms to the American Chemistry Council’s (ACC’s) Responsible Care® Management System (RCMS) and is aligned with ISO 14001, the international standard for Environmental Management Systems (EMSs).

**External EMS Certification**

As a member of ACC, Linde’s safety, health, environment and security (SHES) management system is audited by an accredited third party to ensure compliance with the ACC RCMS. Linde is audited by Bureau Veritas per the requirements of the RCMS, most recently in March 2019 (the certification cycle is three years). RCMS audits for ACC include Linde’s Danbury, Connecticut, global headquarters and a representative sampling of sites in the U.S. and Canada.

The scope of the audit includes sites that “manufacture and distribute industrial gases per the RCMS Technical Specification (TC) RC 101.03.” As an outcome of the RCMS audit, Linde’s SHES management system in the U.S. and Canada has been recognized as compliant with ACC requirements (see https://www.linde.com/about-linde/safety-and-environment).

Linde is signatory to and in compliance with the Responsible Care Global Charter, which includes active participation in Responsible Care programs in all countries where programs exist and where Linde has significant business interests.

Linde businesses around the world conform to Linde’s worldwide SHES management system; in the company’s major markets, they are certified to the international EMS standard, ISO 14001, to national standards for EMSs or to other related standards. For example:

- All Linde Germany is externally certified to ISO 5001, the international standard for energy management systems, as well as ISO 14001.
- Linde Engineering has obtained external certification to ISO 14001.
- White Martins sites in Brazil and APAC businesses maintain certifications to ISO 14001.
- Mexico sites are certified to their national environmental agency PROFEPA Clean Industry Standard.

By revenue, 87 percent of Linde’s worldwide gases production and engineering sites are externally certified to RCMS, ISO 14001 or an equivalent national standard.

**Internal SHEQ Assessment Program**

All Linde sites, and other sites where Linde is a majority shareholder are evaluated for safety, environment and quality (the latter for compliance with local medical regulations, where applicable). Quarterly assessment reports are provided to senior management. The full Board is committed to review safety and environmental risks at each board meeting. Regular assessments are a requirement of Linde’s SHEQ standards and help ensure consistently high standards in all areas of safety, environmental protection, security and compliance.

Linde’s internal SHEQ assessment program includes type “A” and “B” assessments and facility self-assessments. Type A assessments are led by Global SHEQ staff or their designated agent. Type B assessments are led by a member of one of the global business units. Both type A and B assessments are independent of the facility being audited, and the number of these assessments is tracked by Global SHEQ. Facility self-assessments are also conducted by local or regional personnel to help facilities self-identify areas in need of improvement and are not tracked outside of the local operating unit. In 2019, Linde conducted 60 "A" assessment audits, all at Linde sites, and 300 internal "B" assessment audits as per business safety plans. See GEN (2).

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**External Environmental Data Assurance**

Social Management approach for material aspects 103-1, 103-2, 103-3

The social dimension of sustainability concerns an organization’s impacts on people and social systems — employees, contractors, suppliers, customers, other business partners and local communities — and discloses how the risks that may arise from interactions with other social institutions are managed and mediated.

Organizational Responsibility, Accountability and Incentives
Linde’s strong worldwide social policies and procedures include issues such as compliance and integrity, human resources and diversity and inclusion, safety, community engagement and Global Giving. These are managed as part of daily operations. In many cases, suppliers are expected to adhere to equivalent standards.

Linde’s CEO and the Board of Directors are accountable for social issues impacting the company. Linde’s full Board of Directors has responsibility for reviewing safety and environmental risk at each Board meeting. The Compensation Committee assists the Board in its oversight of Linde’s compensation and incentive policies and programs, and management development and succession, particularly in regard to reviewing executive compensation for Linde’s executive officers. The Committee also periodically reviews the company’s diversity policies and objectives, and the programs to achieve those objectives. Charitable contributions are mainly made through the Global Giving program. Employee community engagement in all businesses and functions is promoted from the Sustainable Development department.

Responsibility for performance lies with the businesses. Several executives are responsible for social issues:

- The CHRO is responsible for talent sourcing, management and retention, and diversity and inclusion. He reports to the CEO. The global leader of Diversity and Inclusion is the senior functional lead in this area and reports to the CHRO.
- The General Counsel is responsible for ethics and integrity and compliance and reports to the CEO. The CCO is the senior functional lead in this area. He reports to the General Counsel.
- The SVP, Global Functions, is responsible for SHEQ and reports to the CEO. The vice president of SHEQ is the senior functional lead in this area.
- The SVP, Global Functions, is responsible for sustainable development and procurement. The vice presidents of these functions are the senior functional leads in this area. Together with the CCO, they coordinate activity to ensure adherence to Linde’s supplier sustainability and human rights commitments, among others.

Safety, inclusion and community are Linde values, and, therefore, are non-negotiable. Linde’s executive annual variable compensation is impacted by performance in non-financial areas considered to be Strategic Business Objectives. These include achieving best-in-class performance in several areas, including safety and talent management.

Policies, Commitments, Goals and Targets
Corporate policies are posted on the company website at www.linde.com. Linde’s CBI, corporate HSE Policy, Global Diversity & Inclusion Guidelines, Supplier Code of Conduct and other corporate and country-level policies make clear the company’s commitment to and management processes for addressing relevant areas of potential human rights concern. These include:

- Safety and health protection; a safe work environment
- The prevention of discrimination and harassment of employees
- Equal opportunity and equal treatment
- Merit-based decisions on recruitment, hiring, promotion and compensation
- Compliance with regulations, including on working hours
- The right to privacy
- Freedom of association and freedom of peaceful assembly, including freedom to choose whether to engage in collective bargaining and employees’ participation in works agreements in various countries

Specifically, the Linde CBI makes clear Linde’s commitment to human rights. Linde recognizes every person’s innate humanity and treats everyone with dignity and respect. In supporting the protection and promotion of human rights worldwide, Linde abides by the principles of the International Bill of Human Rights enacted by the United Nations, and does not condone or engage in discrimination; harassment; violations of privacy, slavery or servitude; restrictions on free assembly; or unfair employment practices. Linde commits to adhering to these human rights principles and expects similar standards to be observed by all with whom it conducts business. As described in Sustainable Development Targets 2028 (102-47) on page 12, Linde’s social PFs and related SD 2028 targets include Environment, Safety & Health; and People Development & Communities, and they have related KPIs and SD 2028 targets; see the Performance Towards Targets. This section reports against the relevant GRI Standards for these PFs, in addition to GRI disclosures that are not PFs but that may be of interest to various external stakeholders.
Mechanisms for Grievance and Recourse
Policies are actively communicated to employees around the world to outline Linde's expectations of conduct wherever it does business. It takes these standards very seriously, and non-compliance can result in severe disciplinary action, up to and including termination of employment. Several channels are provided to encourage employees to report suspected complaints and concerns, or to anonymously report violations, including the Integrity Hotline. The company also encourages customers, vendors or other observers to use the hotline to submit complaints or allegations about these or other matters. The company provides an annual report of Linde incidences of substantiated hotline reports on its website at: http://www.linde.com/about-linde/sustainable-development/reporting-center/hotline-reports.

Programs, Projects, Initiatives
These are described in the 400 series disclosures.
Economic, Environmental, Social Topics
200 Series: Economic Topics

201-1 Direct economic value generated and distributed

Revenue

2019 revenue: $28 billion

See 2019 Annual Report for consolidated financial statements. A full description of Linde’s financial results is provided in the annual 10-K filing. See also EC (1) for earnings per share (EPS) performance.

Tax Strategy

Linde is a leading industrial gases and engineering company with approximately 80,000 employees globally, serving customers in 95 countries worldwide. Linde delivers innovative and sustainable solutions to customers and creates long-term value for all stakeholders. The company is making our world more productive by providing products, technologies and services that help customers improve their economic and environmental performance in a connected world.

The nature of Linde's industrial gases business is substantially local. As a result, Linde generates income and pays taxes in jurisdictions in which it has business operations. In case of cross-border transactions, the respective Linde parties endeavor to comply with the applicable transfer price regimes, including transfer price determination rules.

Linde's business, in particular in the industrial gases segment, is capital-intensive. Linde believes that capital investment provides the basis for economic growth, hence the company supports tax policies that promote capital investment.

Linde is committed to developing new technologies that help its customers increase productivity and achieve environmental benefits in a wide range of industries. Linde also supports tax policies that incent innovation and protect the value of intellectual property. Linde’s intellectual property assets are primarily developed and maintained in the United States and Germany, both geographies that are not typically regarded as low-tax countries. Transfer of these assets to low-tax jurisdictions is not part of Linde’s tax planning.

Linde, as a multinational company, supports the continued expansion of a network of bilateral income tax treaties to reduce barriers to cross-border investment and eliminate double taxation.

For all of these reasons, Linde advocates for tax policies that drive economic growth, particularly in areas of increased engineering efficiency and enhanced local production and development.

Linde has adopted a CBI and One Linde Philosophy. It explains Linde’s corporate vision, mission and values — safety, integrity, accountability, inclusion and community. The principles in the CBI set out Linde’s commitment to integrity, to its employees, to the company, to its customers and partners and to its communities. The CBI provides guidance and insight to navigate compliance and ethical questions and to promote an overall culture of compliance. One key guiding principle is full compliance with laws and regulations.

In line with its CBI, Linde manages its tax affairs in a responsible and transparent manner and in compliance with applicable tax legislation. Linde maintains processes and controls designed to minimize the risk of errors that could impact the amount of tax that it pays. These processes and controls are regularly monitored, reviewed and tested, and underpin the preparation and submission of its tax returns.

Linde has a responsibility to its shareholders to maximize returns and structure its affairs in an efficient manner, including taxes.

Linde’s effective tax rate and tax exposures are reviewed annually with the Audit Committee of the Board of Directors of Linde. Linde discloses its effective tax rate publicly, together with the associated risks for the company’s future tax rate and exposures, in the company’s annual 10-K filing on its website at: https://lindeplc.gcs-web.com/node/8381/html.

Charitable Spend

Linde Global Giving program spend: $8 million. See also 413-1.
In 2019, the Linde Global Giving program donated approximately 9 percent of Global Giving funds toward efforts to increase diversity and inclusion. More than one-third of the funding was directed to education, and approximately 12 percent was directed to the environment. Each of these three areas directly complements the company’s strategic focus for philanthropy. The balance provided impact in communities through targeted community support, healthcare support and other areas, such as disaster relief. Linde also reports the breakdown of Global Giving support by purpose and by region.

See also 413-1 for information on community engagement.

See also 203-1 for information on indirect economic impacts.
201-2 Financial implications and other risks and opportunities for the organization's activities due to climate change

201-3 Coverage of the organization's defined benefit plan obligations
A defined benefit and/or a defined contribution plan is available to all U.S. employees, as well as to employees in some other countries. Further detail is provided in Note 18, pages 114 and following, in Linde's 10-K filing.

Dependent upon the business and date of hire, employees may participate in legacy Praxair or Linde GmbH (previously Linde AG) programs, which may include defined benefits and defined contributions.

Retirement coverage for employees of the company's international subsidiaries is provided by those companies through separate plans that are typical for the country of employment.

201-4 Financial assistance received from government
The government is not present in Linde's shareholding structure.

Linde periodically receives grants from government entities (e.g., the Department of Energy in the U.S.) to sponsor innovation. Linde also periodically receives local, state or regional economic development incentives related to capital investments.

202-1 Ratios of standard entry-level wage by gender compared to local minimum wage at significant locations of operation
One-hundred percent of employees in all business units earn at least the local minimum wage. Linde’s CBI reinforces its commitment to "provide equal employment opportunity, and we recruit, hire, promote and compensate people based solely on merit and ability." This is reinforced by Linde’s Diversity & Inclusion Guidelines, provided on the website at: https://www.linde.com/-/media/linde/merger/documents/diversity-and-inclusion/linde_global_di_policy.pdf?la=en&rev=lde6f83c4eb841a6b028c17611fbd458.

Linde's compensation policy assigns jobs into pay levels based on job descriptions so that people performing the same type of job functions are in the same pay range, regardless of age, gender or race. To help ensure that its compensation policy is being appropriately administered, the company conducts annual pay equity analyses in the United States and in other countries where required by law. Specific salary information is confidential.
202-2 Proportion of senior management hired from the local community at significant locations of operation

Linde’s business model is locally focused: Consistent with its growth goals and goals to grow innovation capacity in emerging economies, Linde has a commitment to source and develop local talent. Many country or regional business leaders are local or regional nationals. In hiring and promotion, the company practices the consideration of local leadership who understands the culture and business practices of the area. This provides ideal role models for the local workforce and offers a more cost-effective option than moving leaders from another country.

The following activities help ensure that local talent receives leadership opportunities:
1. Increase local recruiting efforts.
2. Train and develop current workforce for advancement.
3. Offer opportunities for language learning to promote the ability to operate effectively in a multi-national environment.
4. Create opportunities for high-potential local nationals to have special assignments outside their home countries.
5. Collaborate with educational programs to develop the local workforce.

See 405-1.

203-1 Development and impact of infrastructure investments and services supported

A significant portion of the company’s applications support the development of social and economic infrastructures. Linde gases help to make safe drinking water for an estimated 290 million people each day. Industrial and specialty gases enable cleaner and more efficient economic growth in industries from cement to steel. Linde applications are also integral to the development of future energy infrastructures (e.g., applications for renewable energy and second-generation biofuels).

The company is committed to improving the quality of life in the communities it serves. Through financial contributions and the volunteer efforts of employees, Linde supports programs that address diversity, education, the environment and community resilience — all important aspects of community sustainability. In 2019, the company’s Global Giving program contributed $8 million to a range of programs and charitable organizations around the world. See 201-1 for information on how the Global Giving contribution was distributed by focus area and by business region.

Employee and facility/business contributions from community engagement projects were estimated at more than $400,000, and the dollar value of employee and facility in-kind contributions, such as food, clothing and supplies, was estimated at more than $400,000. Global Giving also tracked approximately $288,000 in in-kind contributions, including product donations.

The total Linde contribution, including in-kind contributions, but not volunteer time, is estimated at more than $9 million. The estimated value of volunteer time is nearly $800,000.

203-2 Significant indirect economic impacts

Linde’s business helps countries modernize with technologies that enable environmentally responsible economic growth. Linde provides careers and benefits to nearly 80,000 employees, many of whom are hired locally, and to thousands of retirees. Indirect benefits accrue to Linde’s vendors (also, often, contracted locally), as well as customers, shareholders and communities in which the company operates. For descriptions of how Linde’s business model enables indirect economic, social and environmental benefits, see pages 9 and 11.

The company hires local talent:
- Most emerging economy business leaders are host country or regional nationals.
- It sources local contractors. Substantially all contract drivers, and most contract construction workers, are sourced locally.
- It helps build capacity in local communities. Linde employee volunteers provided a range of benefits to more than 450,000 people, mostly in communities local to Linde sites.

All Linde community engagement projects are encouraged to help meet specific needs identified by community leaders, but there is no science with which to measure the impact of community outreach. Linde uses a methodology based upon that developed by the London Benchmarking Group (LBG)
to evaluate the indirect economic, environmental and social impacts of its community engagement activity for the company, its employees and beneficiaries (see 413-1 and 413-2).

In 2019, for 95 percent of projects, volunteers reported that community engagement had a direct positive impact on recipients’ quality of life. In approximately 86 percent of projects, volunteers reported that community engagement provided the beneficiaries with value that could lead to economic benefits, such as job skills or opportunities for personal growth.

Community engagement is a component of Linde’s SD 2028 goals, with the target to deliver 550 projects per year in communities by 2028 through Linde community engagement initiatives. As many of these projects are directed towards education, these activities support Linde’s contribution to SDG Target 8 to achieve full and productive employment and decent work for all women and men.

The significance of Linde’s economic and governance PFs and targets in the context of external benchmarks and stakeholder priorities is explained in Sustainable Development Priorities, page 12.

204-1 Proportion of spending on local suppliers

Note: This section responds to 204-1 and also responds to 102-9.

Policy


Suppliers, contractors and third parties play a critical role in Linde’s ability to operate and provide products and services to its customers. Suppliers’ actions and practices also reflect on Linde. Therefore, the company chooses suppliers carefully based on merit and a due diligence process. Linde expects suppliers to comply with legal requirements and to act in a manner that is consistent with Linde’s values and the principles outlined in its CBI.

The Supplier Code defines Linde’s minimum requirements for its suppliers concerning their responsibilities towards Linde and its stakeholders, societies and the environment. As part of the standard documentation for all new and renewing contracts, suppliers must confirm conformance with the Supplier Code and with Linde’s CBI or equivalent policies of their own. Specific expectations are laid out for Integrity and Legal Compliance; Human Rights and Labor Standards; Health, Safety and Environment; Accuracy of Books and Records; Intellectual Property; and Supply Chain. A grievance mechanism is provided.

Local Sourcing

Linde works with suppliers in many countries in which it does business — nearly 100 countries. Linde has a corporate value of Community. This reflects the nature of Linde’s industrial gas products: it is generally uneconomical to transport them distances greater than a few hundred miles from the production facility. As a result, the company invests in building local facilities and hires locally for management, employees and contractors.

The most significant sets of suppliers from the point of view of local sourcing are facility construction contractors and contract drivers. Installation of new equipment, as well as ongoing maintenance, is largely performed by local suppliers. Linde uses locally-sourced contract drivers in most of its Asia Pacific countries; in EMEA, except for Germany and the UK; in South America; and in parts of central America. 102-9

The company invests in supplier capacity-building to raise performance standards and share benefits at the same time. The company also values opportunities to engage suppliers and team members to better understand product offerings and applications. One example of supplier collaboration was a recent Supplier Innovation Fair held over two days at the Linde Technology Center. Suppliers joined the session to discuss technology topics; Linde team members then had the opportunity to learn and to share.

Promoting Supplier Diversity

Providing innovative and valuable solutions for customers around the globe requires diverse talents, perspectives and experiences. As part of this, Linde supports programs that assist it in fostering relationships with a variety of qualified, diverse businesses for its supply chain around the globe.

Linde’s Supplier Diversity Program in the U.S. encourages and supports the use of a variety of qualified distinct business enterprises. It seeks to provide maximum practical opportunities for diverse businesses to participate in the supply of goods and/or services that support the company’s business model.
The program has championed companies classified as small and diverse businesses for nearly two decades. The vice president and controller serves as the small business liaison officer and oversees the Small Business Subcontracting Program. On an annual basis, in collaboration with management and support staff from the company’s Procurement team, a detailed small business subcontracting plan is established with practical goals that the company strives to achieve with small businesses inprocuring designated commodities. In 2019, the company spent a total of $435 million with diverse business enterprises. Approximately $273 million was procured from U.S. small businesses, representing products and services that covered approximately 447 different commodity codes. Some companies that identified as small also identified as a veteran-owned or service-disabled-veteran-owned businesses, corresponding to 18 percent of total small business spend, or $48 million. Approximately $47 million was spent with women-owned businesses, and $40 million with minority-owned businesses, including businesses identifying as ethnic minorities or non-ethnic minorities, such as LGBT or persons with disabilities. The company’s U.S. Procurement team has collaborated with its global affiliates to understand the supplier diversity landscape and opportunities in each country in which it operates. By leveraging the knowledge and skills of the company’s diverse employee population and continuing to provide cultural awareness training around the world, the company strives to achieve an organically inclusive environment where diversity is known as a valuable asset and competitive advantage in its supply chain.

Globally, the company continues to identify and enhance supplier diversity initiatives in areas with emerging programs and/or the potential to develop them. In 2019, the company renewed its membership with the Regional Councils of Minority Supplier Development Council (MSDC), Women’s Business Enterprise National Council (WBENC), National Gay and Lesbian Chamber of Commerce, NY Chapter (NGLCC-NY) and National Gay and Lesbian Chamber of Commerce (NGLCC). Throughout 2019, the company continued to promote its pre-qualification program for potential suppliers by collecting advanced information on diverse businesses seeking sales opportunities, including, but not limited to, service geography, description of business capabilities and acquired certifications. Coupled with the company’s existing business matchmaker program, the advanced business information has continued to provide opportunities for the company’s procurement team and operations personnel to more efficiently identify experienced candidates for requests for proposals, leading to a higher percentage of diverse suppliers offering proposals and ultimately being awarded contracts.

Outreach and capacity-building with the company’s prime supplier population allowed for the sharing of best practices in supplier diversity and yielded a commitment to enhance or establish mutually beneficial diversity metrics from suppliers with whom the company spends $1 million or more with annually. In 2019, the company continued its Tier 2 diverse spend reporting program with U.S. prime suppliers, demonstrating the company’s long-term commitment of sustaining diversity and inclusion in its supply chain. The program’s goal is to develop diverse suppliers, beyond the company’s direct supplier relationships, by providing additional economic growth opportunities. In its third year, the program identified $78 million in combined direct and indirect diverse spend, an increase of over eightfold from the previous year. Fifteen prime suppliers from various industry sectors, including telecom, logistics, healthcare and MRO, participated in the program. Capturing this information has allowed the team to advance its supplier diversity program for validating and tracking the company’s spend with diverse businesses and has helped to identify collaboration opportunities for 2020 with companies that have established supplier diversity programs.

**Investing in Supplier Relationships: A Win-Win-Win**

Linde works hard to deepen relationships with suppliers and contractors while ensuring that they meet its standards and business values. This brings multiple benefits to the company and to the communities near to its operations. Linde puts a high priority on evaluating risks associated with its supply chain and collaborates with suppliers and other stakeholders where its involvement can make the most impact.

On a regular basis, Linde works with its carriers on safety training, initiatives and in sharing best practices to continuously improve upon operational efficiency, reduce environmental hazards and promote security and human rights.

**Safety Training**

Worldwide contractor safety training: One-hundred percent of contract drivers, and most contract construction workers, are hired from local firms. In addition to the jobs provided to locally based construction workers and drivers, in 2019, Linde invested more than 1.5 million hours in safety training to contractors in several categories. This included training for more than 31,000 contractors. Contractor training averaged 52 hours a year, more than a work week. If each contractor hour costs Linde $20, this investment can be estimated at more than $30 million. In all cases, this training is directed towards achieving safer construction of Linde facilities and safer, more secure and more fuel-efficient transportation of Linde products. Linde’s world-class results for contractor and driver safety are a measurable consequence of this investment. See 403-2. In addition, the safety and other professional driver training results in a transfer of professional skills that increases the employability of the recipient.

For information on supplier and contractor training, see 414-2.
205-1 Operations assessed for risks related to corruption
Linde administers an annual risk assessment that is circulated to all business managers globally and to all functional leaders and covers 100 percent of all business units. Potential risks related to corruption are an explicit focus.

A Compliance Review Board (CRB) performs quarterly regulatory risk assessments. Dedicated Foreign Corrupt Practices Act (FCPA) and anti-bribery audits are conducted. In the last 10 years, 37 such audits have been conducted, an average of four audits per year.

Linde operates in certain jurisdictions identified as high risk based on the Corruption Perception Index from Transparency International. The company has not identified significant risks other than regular risks that are dealt with through training and certifications of employees.

205-2 Communication and training on anti-corruption policies and procedures
Most recently, in early 2020, Linde’s Board of Directors received training on the CBI, which includes anti-corruption policies and procedures. The company also trains all its salaried employees globally on anti-corruption. The company has an established process to conduct thorough due diligence prior to contracting and sends training to 100 percent of all third parties and agents who interact with the government on the company’s behalf.

Linde’s CBI applies to the company’s directors and all employees, including its CEO, CFO and controller (CCO). This CBI, which includes elements of compliance with laws, business integrity, and ethics, has been approved by the Linde Board of Directors. To assist employees and directors in complying with this code of ethics, management periodically develops specific standards implementing certain provisions of the code. Linde’s CBI is posted on Linde’s website.

One-hundred percent of salaried Linde management and employees, and some non-exempt employees, are required to annually certify that they have read and understand the company’s CBI, which includes a rigorous outline of the FCPA and anti-bribery laws. This is an online training and survey. Training to targeted populations was conducted most recently in early 2020; the company achieved 100 percent compliance with this requirement.

205-3 Confirmed incidents of corruption and actions taken
Linde takes its commitment to integrity very seriously. Non-compliance with the CBI, depending on the circumstances, can result in serious disciplinary action up to and including termination of employment. Employees are actively encouraged to report suspected complaints and concerns, and are expected to report violations through a number of channels, including the Integrity Hotline. Reports through the Integrity Hotline may be made anonymously. It is a violation of company policy for any person to retaliate against any individual who has reported any matter in good faith.

Table SOC (12) provides the aggregate number of hotline reports and a summary of the types of reports received; see 406-1. All hotline reports are promptly handled, and identified issues are addressed. Further details are not provided in Linde’s public reporting as they are business confidential. No confirmed incidents of corruption occurred in 2019.

206-1 Legal actions for anti-competitive behavior, anti-trust, and monopoly practices and their outcomes
No anti-trust regulatory or enforcement action was initiated in 2019. Also refer to the “Contingent Liabilities” section of Linde’s annual 10-K filing.
300 Series: Environmental Topics

Linde is a resource-intensive company. Linde’s environmental performance year-on-year can best be evaluated on an intensity basis versus revenue. In most cases, this shows a positive trend. In addition, Linde’s business model is resource efficiency — to make more value than it consumes. The environmental and other benefits of Linde applications are described in the "Business Model" section on page 9, the "How We Create Economic, Environmental and Social Value" section on page 11, and the "Linde Applications Enable >2x Carbon Productivity" section on page 5.

For ease of comparison and to follow Linde’s performance year-on-year, in this report Linde presents a full-year pro forma value for 2018 for each environmental KPI. These 2018 pro forma values are comparable to the 2019 numbers, using the same reporting scope, definition and boundaries. Pro forma numbers for 2018 have either been fully re-audited (energy consumption, Scopes 1 and 2) or are calculated from audited 12+2 numbers, where two months of Linde GmbH (previously Linde AG) numbers have been scaled up to a full year (unless otherwise stated). Trend data needs to be understood in the context of the merger. For 2016 and 2017, data is reported for legacy Praxair only, and these years are not a basis to understand trends.

During 2019, Linde defined harmonized reporting standards and methodologies for the collection and reporting of its eKPIs. Linde’s new reporting boundaries for eKPIs are consistent with the financial reporting boundaries and financial control definition to the greatest extent possible. Linde reports on all eKPIs for all subsidiaries, JVs and other holdings within its organizational boundaries whose revenues and Earnings Before Interests and Taxes (EBIT) are included in Linde’s financial results. Linde does not collect eKPI data for minority holdings and other holdings that are not reporting their financials. EKPIs for JVs, which are not fully consolidated into the company financials (at-equity JVs), are collected but are only included in external GHG reporting under Scope 3.

301-1 Materials used by weight or volume

Raw materials are procured through a global procurement organization under global procurement standards and expectations that include requirements for material sustainability. Linde has Supplier Expectations that manage sustainability in its supply chain.

Non-Renewable Materials Used

Linde estimates that 1 percent by weight of the raw materials used in 2019 were non-renewable and include natural gas and naphtha, which are used in hydrogen production.

Linde also builds air separation units (ASUs) and steam methane reformers (SMRs). Construction materials for these are generally from non-renewable sources: aluminum, carbon steel, stainless steel, copper and brass alloys, brass and metals. The largest material by spend is steel.

Renewable Materials Used

Ninety-nine percent by weight of the raw materials used in 2019 to produce gaseous nitrogen, oxygen, argon, carbon dioxide and hydrogen were renewable raw materials. Renewable raw materials used by Linde include air, water, carbon dioxide and hydrogen. These products represent over 90 percent of the revenue Linde received for the products it manufactures. Examples of products not included are those manufactured by Surface Technologies and low-volume products, such as acetylene.

Using air as its raw material, Linde produces oxygen, nitrogen, argon and rare gases through several air separation processes, of which cryogenic air separation is the most prevalent. As air is a renewable natural resource, there is no negative environmental consequence to using this raw material.

Process gases, including carbon dioxide, hydrogen, carbon monoxide, helium, specialty gases and acetylene, are produced by methods other than air separation. In many cases, these are sourced as an industrial byproduct or waste. Some of these byproduct sources are renewable, but all offer a means to reuse products that would otherwise have been waste.

- Most carbon dioxide is purchased from byproduct sources, including chemical plants, refineries and industrial processes. These byproduct sources include ethanol manufacturing facilities, where the waste carbon dioxide is considered renewable. A portion is recovered from carbon dioxide wells.
- Hydrogen and carbon monoxide are produced by either steam methane reforming of natural gas or by purifying byproduct sources obtained from the chemical and petrochemical industries. In 2019, Linde procured 22 percent byproduct hydrogen.
Most of the helium sold by Linde is sourced from helium-rich natural gas streams in the United States, with additional supplies being acquired from outside the United States.

Acetylene can be produced from calcium carbide and water. A significant percentage is purchased as a chemical byproduct.

The volumes of process gases procured are considered business confidential.

### 301-2 Percentage of materials used that are recycled input materials
Also see 301-1 for information on renewable raw materials. As part of its sustainable supply chain program, Linde’s Procurement organization works with vendors to reduce consumption of upstream, non-renewable natural resources. For some of its business lines, Linde actively sources recycled input materials by using byproducts from other industrial processes. The total weight of these byproducts as a percentage of total material use is not reported here.

From 2011–2019, most of the acetylene produced by Linde in the United States was sourced from byproduct acetylene, avoiding the mining of calcium carbonate and the recycling or disposal of carbide lime. Most Linde carbon dioxide sold in the U.S. was sourced from ethanol fermentation (a biomass source). As a business, Linde is constantly researching innovative ways to expand the use of this application.

Most gases are transported in pipelines or trucks, including cylinder trucks, and use little packaging (see 301-3).

Following the merger, Linde now comprises a large engineering business, which designs and constructs new production plants. When building a new plant, the focus is put on the re-use of parts/components from other dissembled plants (e.g., refurbished parts) as much as possible. At the end of life of a production facility, parts and components are checked, refurbished if required, and directly re-used or put in stock for future usage. Thus, most of the materials are recycled and become input materials (e.g., for new plants).

In order to avoid procurement of new materials, the company has established several asset management programs that are actively identifying idle assets (e.g., cylinders) to ensure that they are put back into use rather than purchasing new materials. The programs actively track all assets, are well reported and are yielding good results.

### 301-3 Reclaimed products and their packaging materials
Linde produces very little packaging waste. Linde delivers most of its product in pipelines or bulk cylinder trucks. As the products are consumable, there is nothing to reclaim and no packaging material for the majority of products. For the packaged gases product lines, either disposable cylinders or reusable cylinders are utilized. The metal cylinders last about 40 years, are returnable and are typically reused multiple times.

In its cylinder test shop in Wolverhampton, UK, with more than 100 employees, Linde refurbishes about 1.8 million cylinders per year in order to avoid unnecessary scrapping. Linde runs several of these large cylinder refurbishment centers worldwide as well as many smaller test shops and repair centers in many countries.

### 302-1 Energy consumption within the organization

#### Fuel Consumption
Linde’s total non-renewable fuel consumption in 2019 was 76.5 million GJ, or 21,246 million MWh. This figure represents energy consumption and excludes fuel consumed as a feedstock for production. Fuel types used included natural gas, diesel, oil and “other,” which includes naphtha and other refinery fuel gas. Linde did not consume any renewable fuel in 2018 or 2019.

#### Electricity
Total low-carbon (non-fossil) electricity consumed in 2019 was 56 million GJ, or 15.5 million MWh, which represents 37 percent of Linde’s total electricity consumption in 2019.

The amount of “active” renewable electricity was 2.4 million MWh and is classified as electricity procured through Power Purchase Agreements (PPAs), directly connected 100 percent RE supplier contracts, or validated green energy certificates. Passively procured electricity from the grid was calculated using the latest location-based renewable energy grid factors from the IEA and, where available, plant-specific RE factors according to the supplier
contract/utility bill. In 2019, the calculated passive renewable electricity amounted to 8.9 million MWh. Adding together active and passive renewables, the total renewable electricity purchased and consumed in 2019 was 11,364,000 MWh.

**Steam**

Linde did not consume any heating or cooling in 2018 or 2019.

**Total Electricity, Heating, Cooling and Steam Sold**

Linde sold 7,752,000 MWh of steam in 2019.

**Total Energy**

Linde consumed a total of 65,402,000 MWh, or 235 million GJ, of energy in 2019.

**Calculation Methodology**

Linde tracks energy consumption through meters and utility bills, collecting information for each plant and location in a global eKPI system. Newly constructed plants less than two months old and de-minimis locations consuming less than 1,500 MWh are excluded from reporting. Where MWH were converted to GJ, MWH were multiplied by 3.6.

### Non-renewable Fuel Consumption

<table>
<thead>
<tr>
<th></th>
<th>2018 Linde Pro Forma</th>
<th>2019 Linde</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non-renewable fuels purchased and consumed</td>
<td>21,034,000</td>
<td>21,246,000</td>
</tr>
</tbody>
</table>

**EN (1): Non-renewable Fuel Consumption**

Units: MWh

#### Electricity

<table>
<thead>
<tr>
<th></th>
<th>2018 Linde Pro Forma</th>
<th>2019 Linde</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active renewable electricity consumed</td>
<td>2,507,000</td>
<td>2,431,000</td>
</tr>
<tr>
<td>Passive renewable electricity consumed</td>
<td>8,596,000</td>
<td>8,933,000</td>
</tr>
<tr>
<td>Low carbon (nuclear) electricity consumed</td>
<td>4,090,000</td>
<td>4,146,000</td>
</tr>
<tr>
<td>Fossil electricity consumed</td>
<td>26,356,000</td>
<td>26,369,000</td>
</tr>
<tr>
<td><strong>Total Electricity Consumed</strong></td>
<td><strong>41,549,000</strong></td>
<td><strong>41,879,000</strong></td>
</tr>
</tbody>
</table>

**EN (2): Electricity**

Units: MWh

#### Steam

<table>
<thead>
<tr>
<th></th>
<th>2018 Linde Pro Forma</th>
<th>2019 Linde</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steam consumption</td>
<td>2,203,000</td>
<td>2,238,000</td>
</tr>
</tbody>
</table>

**EN (3): Steam**

Units: MWh
## 302-1 Total Energy

<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>a. Non-renewable fuels purchased and consumed</td>
<td>3,096,000</td>
<td>2,813,000</td>
<td>21,034,000</td>
<td>21,246,000</td>
</tr>
<tr>
<td>b. Non-renewable electricity consumed(^1)</td>
<td>22,641,000</td>
<td>24,897,000</td>
<td>39,042,000</td>
<td>39,448,000</td>
</tr>
<tr>
<td>c. Steam consumption</td>
<td>1,147,000</td>
<td>1,229,000</td>
<td>2,203,000</td>
<td>2,238,000</td>
</tr>
<tr>
<td>d. Total non-renewable energy consumption ((a+b+c))</td>
<td>26,884,000</td>
<td>28,939,000</td>
<td>62,279,000</td>
<td>62,932,000</td>
</tr>
<tr>
<td>e. Total renewable electricity purchased or generated(^2)</td>
<td>521,000</td>
<td>503,000</td>
<td>2,507,000</td>
<td>2,431,000</td>
</tr>
<tr>
<td><strong>Total Energy Consumed ((d+e))</strong></td>
<td><strong>27,405,000</strong></td>
<td><strong>29,442,000</strong></td>
<td><strong>64,786,000</strong></td>
<td><strong>65,363,000</strong></td>
</tr>
</tbody>
</table>

1. Row b (non-renewable electricity consumed) includes both fossil-fuel based electricity and passive renewable electricity. Since passive renewables are consumed from the grid, Linde does not include this in row e since it did not directly purchase or generate this power.

2. Row e includes only active renewable energy consumed.

EN(4): Total Energy
Units: MWh

### 302-2 Energy consumption outside of the organization

Linde did not consume energy from outside the organization.

### 302-3 Energy intensity

It is key to Linde’s business to manage energy use and energy use in production. The company considers production volumes to be business confidential. Internally, energy intensity is tracked monthly and is a basis for Linde’s operational GHG intensity targets, see Performance Towards Targets, page 23.

### 302-4 Reduction of energy consumption

Linde has a 7% energy intensity improvement target by 2028 for air separation units, see Performance Towards Targets, page 23.

### 303-1 Water withdrawal by source

In 2019, Linde withdrew 520 million m³ of fresh water. Of this, 357.8 million m³ were discharged to surface water sources with no impact to quality. Net freshwater consumption was 162.2 million m³.

In addition to fresh water, Linde used 92.4 million m³ of industrial/recycled water. Total non-brackish seawater withdrawal was 612.4 million m³ in 2019.

In addition to non-brackish water, Linde also used 175.5 million m³ of seawater in 2019. This brings Linde’s total water withdrawal in 2019 to 788.1 million m³. Including fresh, industrial/recycled and seawater sources, 1.4 percent of Linde’s water withdrawals came from ground water sources, 48.6 percent from fresh surface water, 16 percent from municipal supplies, 11.7 percent from industrial/recycled water sources and the remaining 22.3 percent from sea water.
Water Withdrawal (Non-brackish)

<table>
<thead>
<tr>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Municipal Water</td>
<td>56.3</td>
<td>22.2</td>
<td>81.6</td>
<td>126.0</td>
<td>126.0</td>
</tr>
<tr>
<td>B. Fresh Surface Water</td>
<td>279.3</td>
<td>316.2</td>
<td>486.4</td>
<td>383.3</td>
<td>383.3</td>
</tr>
<tr>
<td>C. Fresh Ground Water</td>
<td>6.4</td>
<td>9.3</td>
<td>20.3</td>
<td>10.7</td>
<td>10.7</td>
</tr>
<tr>
<td>D. Total Fresh Water Withdrawal (A+B+C)</td>
<td>342.0</td>
<td>347.7</td>
<td>588.3</td>
<td>520.0</td>
<td>520.0</td>
</tr>
<tr>
<td>E. Fresh Once-Through Cooling Water Returned to Surface Water Sources</td>
<td>278.8</td>
<td>280.3</td>
<td>421.9</td>
<td>357.8</td>
<td>357.8</td>
</tr>
<tr>
<td>F. Net Freshwater Usage (D-E)</td>
<td>63.2</td>
<td>67.4</td>
<td>166.4</td>
<td>162.2</td>
<td>162.2</td>
</tr>
<tr>
<td>G. Industrial/Recycled Water</td>
<td>6.4</td>
<td>60.0</td>
<td>63.4</td>
<td>92.4</td>
<td>92.4</td>
</tr>
<tr>
<td>H. Once-Through Cooling Water Returned to Source (Fresh + Industrial/Recycled)</td>
<td>285.2</td>
<td>340.3</td>
<td>485.3</td>
<td>469.4</td>
<td>469.4</td>
</tr>
<tr>
<td>I. Total Water Withdrawal (Non-brackish) (D+G)</td>
<td>348.4</td>
<td>407.7</td>
<td>651.7</td>
<td>612.4</td>
<td>612.4</td>
</tr>
<tr>
<td>J. Net Water Usage (Non-brackish) (I-H)</td>
<td>63.2</td>
<td>67.4</td>
<td>166.4</td>
<td>143.0</td>
<td>143.0</td>
</tr>
</tbody>
</table>

EN (S): Water Withdrawal (Non-brackish)
Units: million m³

303-2 Water sources significantly affected by withdrawal of water
No water sources were significantly affected by Linde's withdrawal of water in 2019.

303-3 Water recycled and reused
Linde estimates that more than 90 percent of the water used in 2019 at Linde production plants (excluding once-through) was recycled numerous times through cooling towers before discharge.

304-1 Operational sites owned, leased, managed in, or adjacent to, protected areas and areas of high biodiversity value outside protected areas

304-2 Significant impacts of activities, products and services on biodiversity
No response.

304-3 Habitats protected or restored

304-4 Total number of IUCN Red List species and national conservation list species with habitats in areas affected by operations, by level of extinction risk
Linde’s operations do not have a significant impact on biodiversity. An evaluation of more than 600 production sites established that none of these sites are located in the vicinity of a protected area. Many sites are located in industrial zones or business parks.

When planning new sites, processes are in place to ensure that Linde minimizes any potential negative impacts on biodiversity. It follows internationally recognized guidelines when performing its evaluations, such as the Voluntary Guidelines on Biodiversity-Inclusive Impact Assessment issued by the United Nations.

305-1 Direct greenhouse gas (GHG) emissions (Scope 1)
The primary source of Scope 1 emissions for Linde is the combustion of natural gas at hydrogen plants, which represented 11.1 million tons of Scope 1 emissions in 2019. Another portion is from ASU plants using natural gas for energy generation, which amounted to 2.1 million tons CO₂e. Smaller sources of Scope 1 emissions are other GHGs (e.g., from methane plants or nitrous oxide plants) or other types of GHG emissions that are converted into...
305-1

CO2 equivalents. The total of such “other GHG emissions” was 1.7 million tons in 2019. Carbon dioxide and other plants caused approximately 0.9 million tons. The combustion of diesel and gasoline from transport activities resulted in approximately 0.7 million tons CO2e in 2019.

Scope 1 Emissions Covered by Emissions-limiting Regulations

In 2019, 1,494,000 tons of Scope 1 emissions, 9 percent, were subject to a form of carbon legislation, over a cap-and-trade scheme, ETS or a form of carbon taxation. Most of this number (more than 80 percent) was covered by the EU ETS scheme; smaller amounts were subject to (sub-)national regulations like the California CAT scheme or the Singapore carbon tax. For details on the 2019 carbon regulation schemes applicable to Linde, see the Linde CDP report, which will be available at the end of August 2020 at: https://www.linde.com/en/about-linde/sustainable-development/reporting-center.

Calculation Methodology

Hydrogen plants, which represent the largest source of Linde’s Scope 1 emissions, consume natural gas, both for fuel and feedstock. To determine Scope 1 emissions, the amount of carbon produced as product is subtracted. In addition, Linde calculates Scope 1 emissions from gases losses (during production and filling processes). These are calculated for nitrous oxide manufacturing and filling facilities, carbon dioxide plants, on-site refrigeration equipment and cylinder filling operations associated with methane, SF6, PFCs, HFCs and NF3.

To calculate Scope 1 emissions from natural gas, Linde uses the reported natural gas factors from each production plant (depending on the mix of hydrocarbons). If a specific natural gas factor is not available or known, Linde uses a chemical natural gas to CO2 conversion factor from the Department for Environment, Food & Rural Affairs (DEFRA), from the Government of United Kingdom. For other fuels, Linde uses DEFRA factors to convert to CO2 equivalents.

Emissions from transport are calculated based on actual kilometers driven for commercial and non-commercial vehicles, multiplied by average emission factors by vehicle type from the “Estimated U.S. Average Vehicle Emissions Rates per Vehicle by Vehicle Type using Gasoline and Diesel (Grams per mile)” from the U.S. Environmental Protection Agency, Office of Transportation and Air Quality, personal communication, Apr. 6, 2018.

Scope 1 GHG Emissions

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<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>Scope 1</td>
<td>8,348,000</td>
<td>8,820,000</td>
<td>16,872,000</td>
<td>16,461,000</td>
</tr>
</tbody>
</table>

EN (6): Scope 1 GHG Emissions
Units: Metric Tons CO2e

305-2 Energy indirect greenhouse gas (GHG) emissions (Scope 2)

Scope 2 GHG emissions in 2019 were 21 million metric tons CO2e. These emissions were calculated using the market-based approach. The largest electricity user is ASUs, which account for approximately 85 percent of all electricity used.

Linde also calculated Scope 2 emissions for 2019 using the location-based approach, which applies IEA factors and eGRID emission factors in the U.S. Scope 2 emissions calculated with the location-based approach were 19.9 million Metric Tons CO2e in 2019. The difference between market-based and location-based emissions are mostly due to certain plants where customers provide the electricity to Linde (which Linde purchases). Some of these plants have a very high market-based emissions factor compared to the location-based emissions factor.

Changes in Methodology and Boundaries

Beginning with 2018 pro forma and going forward, Linde reports on all electricity and its resulting scope 2 emissions purchased by the company. Electricity for sites where Linde does not pay the utility bill is excluded from its reported electricity number as well as from the reported Scope 2; however, it is tracked internally for operational purposes and for Scope 3 reporting. See Restatements.

Calculation Methodology

The main methodology for calculating Scope 2 emissions from electricity is the market-based approach, using site-specific emissions factors by plant according to supplier contracts and utility bills where available. For sites where such market-based factors are not known, Linde uses the most recent location-based factors from the IEA and the EPA’s eGRID factors for the U.S.
305-2  
Scope 2 GHG Emissions

<table>
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<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>Scope 2</td>
<td>12,881,000</td>
<td>12,836,000</td>
<td>21,093,000</td>
<td>21,012,000</td>
</tr>
</tbody>
</table>

EN (7): Scope 2 GHG Emissions
Units: Metric Tons CO2e

305-3 Other indirect greenhouse gas (GHG) emissions (Scope 3)
Linde is reporting on the following six categories of Scope 3 emissions (by order of magnitude):

- Fuel- and energy-related activities not included in Scopes 1 and 2
- Emissions due to investments
- Emissions due to down-stream leased assets
- Emissions from purchased goods and services
- Indirect emissions from capital goods purchases
- Downstream transportation and distribution (contractor driving)

Criteria for selecting Scope 3 reporting categories were:

- Relevance and transparency: This includes activity over which Linde has a level of operational control but where the GHG emissions are reported by another party.
- Relevance or materiality to Linde’s footprint: This includes activity that may have a potentially significant GHG consequence.

Upstream Scope 3 Emissions
Linde’s methodologies for upstream Scope 3 emissions are described below.

- Fuel- and energy-related activities not included in Scopes 1 or 2
  Scope 3 emissions from fuel-and energy-related activities (including upstream emissions from purchased fuel, purchased electricity and transmission and distribution losses) are the most significant source of Scope 3 emissions for Linde, as Linde’s business is energy-intensive, and energy is a significant cost for Linde.

  The methodology used is based on the GHG Protocol Corporate Value Chain (Scope 3) Accounting and Reporting Standard, Category 3 for Scope 3 emissions caused in the extraction, production and transportation of fuels and energy purchased by Linde.

  For electricity, Linde applies IEA factors for transmission and distribution (T&D) losses and DEFRA factors for Well-to-Tank (WTT) to calculate all the Scope 3 GHG emissions released into the atmosphere from the production, processing and delivery of energy. The calculation is done on a site level for each site for which Linde purchases the power. For thermal energy, a global WTT factor for heat and steam from DEFRA is applied. For Scope 3 emissions from transport fuels as well as other fuels consumed (excluding feedstocks), DEFRA factors for fuel- and energy-related emissions are used per relevant category.

- Purchased Goods and Services
  After electricity and energy (reported as fuel-and energy-related Scope 3), the most important input/raw material used by Linde is natural gas. This represents over 80 percent of Scope 3 emissions from purchased goods and services (the rest is distributed over numerous small items and values). Linde’s Scope 3 number is, therefore, based on this input material only as this represents the majority source of emissions from this category.

  To calculate Scope 3 emissions from natural gas purchased and used as feedstock, Linde applies the same methodology and calculations as for natural gas purchased as fuel/energy, which is based on the GHG Protocol Corporate Value Chain (Scope 3) Accounting and Reporting Standard, Category 3, for Scope 3 emissions caused in the extraction, production and transportation of fuels and energy.

- Capital Goods
  With the merger, Linde now comprises of a large engineering business; therefore, the total Scope 3 from capital goods purchased has gained in significance. Indirect emissions caused by capital goods acquired by the company is now Linde’s fifth-largest type of Scope 3 emissions.
The principal material Linde procured for capital projects is metal products, mainly steel, followed by electrical equipment and other non-ferrous materials.

Linde uses industry emission factors for emissions/spend to calculate its Scope 3 emissions for the most important materials by value covering. The last calculation of this type of Scope 3 emissions used for 2018 reporting was based on data accumulated from legacy companies from 2017. Since annual revenue and the size of the Linde business was similar in 2019 when compared to 2018, the same full-year value for 2018 was carried forward.

**Downstream Scope 3 Emissions**
Linde’s methodologies for downstream Scope 3 emissions are described below.

- **Downstream Leased Assets**
  This category includes emissions for assets like smaller on-site facilities where the customer is paying for the power and, in many cases, operating the plant. This also includes several major plants where customers are paying for the power and where Linde is charging a facility fee to the customer. Emissions for those plants where the customer pays for the power are not included in Linde’s Scope 2. The new Linde has a significant amount of such smaller on-site plants operated by the customer all over the world; this category of Scope 3 emissions, therefore, currently represents the third-largest source of Scope 3 emissions.

HyCO plants/facilities that are owned by Linde are fully reported under Scope 1, regardless of if they are leased out or independent on who is running the plant or providing the fuel or feedstock.

Emissions from leased out or charged out entities are calculated on a plant level, using same calculation methodology as for calculating indirect/Scope 2 emissions for other Linde plants. For plants where the customer pays for the power and the plant-specific emissions factors are not known, Linde uses country emission factors from the IEA to calculate indirect emissions for those sites.

- **Downstream Transportation and Distribution (Contractor Driving)**
  Scope 3 emissions from downstream transportation and distribution are now Linde’s fifth-largest Scope 3 source. Contractor miles driven are collected in each country and business or region and tracked. Linde’s Scope 3 emissions resulting from delivery of products by third-party carriers were derived using the same methodology to calculate GHG emissions from owned trucks: Emissions from transport are calculated based on actual kilometers driven for commercial and non-commercial vehicles, multiplied by average emissions factors by vehicle type from the “Estimated U.S. Average Vehicle Emissions Rates per Vehicle by Vehicle Type using Gasoline and Diesel (Grams per mile)” from the U.S. Environmental Protection Agency, Office of Transportation and Air Quality, personal communication, Apr. 6, 2018.

- **Emissions due to Investments**
  Per Linde’s newly defined environmental and GHG reporting standards, Linde includes into its Scope 1 and 2 reporting only subsidiaries/holdings that are reporting their financials to the company and whose results are consolidated into the company P&L. Holdings/investments that are reporting their results but are not consolidated into the P&L statement (mainly JVs consolidated at-equity) are not considered for Scope 1 and 2 emissions, but are reported as Scope 3 from investments. As the new Linde has large JV operations, especially in China, with the merger, this category has gained in significance and currently represents the second-largest source of Scope 3 emissions for Linde.

Linde is calculating its emissions due to investments on a plant level. All JVs are reporting their electricity and other fuel consumption into Linde’s environmental reporting system. Linde is then calculating Scope 3 from such investments for all plants in this category, by adding reported direct emissions from HyCO plants and indirect emissions from ASUs and other plants, based on reported electricity consumption, multiplied by a country IEA factor.

**Scope 3 Sources Not Reported**
Linde does not report emissions in the following categories: upstream transportation and distribution, business travel, employee commuting, upstream leased assets, waste generated in operations. These emissions have been calculated or estimated and were determined to be not relevant due to their very small contribution to Linde’s Scope 3 footprint. Linde also does not report emissions from processing of sold products, use of sold products and end-of-life treatment of sold products. Linde is at the beginning of numerous value chains and provides many intermediate products with many downstream applications, each of which has a very different GHG profile. Linde does not estimate the downstream emissions associated with the various end uses of all its products.
305-3

Scope 3 GHG Emissions

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<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td><strong>Upstream</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fuel-and Energy-related activities</td>
<td>2,166,000</td>
<td>2,199,000</td>
<td>5,044,000</td>
<td>5,299,000</td>
</tr>
<tr>
<td>Purchased Goods and Services</td>
<td>N/A</td>
<td>N/A</td>
<td>1,540,000</td>
<td>1,540,000</td>
</tr>
<tr>
<td>Capital Goods</td>
<td>483,000</td>
<td>515,000</td>
<td>965,000</td>
<td>965,000</td>
</tr>
<tr>
<td><strong>Downstream</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Investments</td>
<td>N/A</td>
<td>N/A</td>
<td>3,060,000</td>
<td>3,060,000</td>
</tr>
<tr>
<td>Downstream Leased Assets</td>
<td>N/A</td>
<td>N/A</td>
<td>2,163,000</td>
<td>2,280,000</td>
</tr>
<tr>
<td>Downstream Transportation and Distribution (Contractor Driving)</td>
<td>260,000</td>
<td>282,000</td>
<td>661,000</td>
<td>577,000</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>2,909,000</td>
<td>2,996,000</td>
<td>13,433,000</td>
<td>13,721,000</td>
</tr>
</tbody>
</table>

EN (8): Scope 3 GHG Emissions
Units: Metric Tons CO2e

305-4 Greenhouse gas (GHG) emissions intensity

Scope 1 and 2 emissions are as reported in 305-1 and 305-2 and include carbon dioxide (CO2), methane (CH4), nitrous oxide (N2O), perfluorocarbons (PFCs), hydrofluorocarbons (HFCs) and sulfur hexafluoride (SF6). Sales revenue reported to calculate revenue intensity is reported in Linde plc’s financial filings. See EN(9).

Linde is tracking emissions intensity versus EBITDA and has defined a 10-year target for this intensity figure (reduction of 35 percent). See details on GHG versus EBITDA intensity in the “Performance Towards Targets” section, page 23. See EN(10).

GHG Inventory Methodology

Linde’s GHG emissions disclosures have been prepared based on a reporting year of January 1 to December 31, the same as the financial reporting period. All GHG emissions figures are in Metric Tons of CO2e and cover six gases: CO2, CH4, N2O, PFCs, HFCs and SF6. Linde does not have emissions of nitrogen trifluoride (NF3).


Global warming potentials (GWPs) are sourced from the Intergovernmental Panel on Climate Change (IPCC) Fourth Assessment Report.

- Timelines and Base Year GHG Emissions
  Linde reports on its eKPIs for the last four years in order to reflect the trend and development of KPIs.

  Linde has defined new sustainable development targets in 2019, which set 2018 as a baseline year for the new company’s targets. Those targets include targets relating to GHG emissions. The basis for those targets is a 2018 full-year pro-forma value for the complete merged company according to the final organizational structure. For pro forma information and performance against GHG targets, see the “Performance Towards Targets” section, pages 21–27.
305-4

- **Excluded Sources of GHG Emissions**
  Linde has very small office sites and smaller sales outlets (such as retail outlets) with fewer than five people, called “de-minimis” sites. Emissions from these sites are negligible and are therefore not included in the GHG inventory.

- **Prior Year Revisions**
  The company has restated 2018 Scopes 1, 2 and 3 to reflect pro forma emissions. See Restatements, pages 39–40.

- **External Verification**
  Linde’s 2019 GHG inventory was verified by a third party. In 2019, a Limited Assurance was performed on Scopes 1 and 2 and a subset of Scope 3 emissions (2019 calendar year data). In addition, some eKPIs have been re-audited for 2018 (new pro forma values). A copy of Linde’s assurance statement is available at the end of this report.

### GHG Intensity by Revenue

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Total Scope 1+2 (thousands) in Metric Tons CO2e</strong></td>
<td>21,229</td>
<td>21,656</td>
<td>37,965</td>
<td>37,473</td>
</tr>
<tr>
<td><strong>Revenue (million USD)</strong></td>
<td>$10,534</td>
<td>$11,437</td>
<td>$28,084</td>
<td>$28,228</td>
</tr>
<tr>
<td><strong>GHG Intensity</strong></td>
<td>2.02</td>
<td>1.89</td>
<td>1.35</td>
<td>1.33</td>
</tr>
</tbody>
</table>

**EN (9): GHG Intensity by Revenue**
Units: Metric Tons CO2e/ USD Revenue

### GHG Intensity by EBITDA

<table>
<thead>
<tr>
<th></th>
<th>2018 Linde Pro Forma</th>
<th>2019 Linde</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Total Scope 1+2 (thousands) in Metric Tons CO2e</strong></td>
<td>37,965</td>
<td>37,473</td>
</tr>
<tr>
<td><strong>EBITDA (million USD)</strong></td>
<td>$7,603</td>
<td>$8,178</td>
</tr>
<tr>
<td><strong>GHG Intensity</strong></td>
<td>5.0</td>
<td>4.6</td>
</tr>
</tbody>
</table>

**EN (10): GHG Intensity by EBITDA**
Units: Metric Tons CO2e/USD EBITDA

**305-5 Reduction of greenhouse gas (GHG) emissions**

**Scopes 1+2 GHG Emissions Reductions**
Linde’s total sustainable productivity in 2019 yielded savings equivalent to 505,000 Metric Tons CO2e. It counts projects where benefits are fully realized as well as projects that were implemented in 2018 and are still accruing benefits. These projects provided GHG savings from enhancing the energy efficiency of buildings, processes and the transportation fleet. Information on the projects, including investment made and cost savings, can be found in Linde’s 2019 CDP response, which will be available at the end of August at: [https://www.linde.com/en/about-linde/sustainable-development/reporting-center](https://www.linde.com/en/about-linde/sustainable-development/reporting-center).

**Scope 3 Customer GHG Benefits**
A subset of Linde applications enabled customers and end users to avoid a substantial amount of GHG emissions. See page 22.
305-7 NOx, SOx, and other significant air emissions

The increase in SOx emissions between 2018 and 2019 can be attributed to one of Linde’s largest plants in Singapore, and the source of 52 percent of Linde’s total SOx emissions in 2019. This plant experienced several unplanned shutdowns in 2018 and far fewer emissions than in a normal operating year.

Calculation Methodology

NOx, SOx and VOC emissions from plants are taken from emissions monitoring systems or are estimated based on operations data where emissions monitoring is not required by local regulations. SOx emissions from transport are estimated based on sulphur concentration in local fuel using local transport knowledge and legislative limits. NOx and VOC emissions from transport are calculated based on estimated diesel consumption rates and local regulatory limits. Emissions factors are sourced from the U.S. Environmental Protection Agency Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990-2005.

<table>
<thead>
<tr>
<th>NOx, SOx and VOC Emissions</th>
<th>2016 Praxair</th>
<th>2017 Praxair</th>
<th>2018 Linde Pro Forma</th>
<th>2019 Linde</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOx Emissions</td>
<td>1,832</td>
<td>1,550</td>
<td>8,680</td>
<td>8,750</td>
</tr>
<tr>
<td>SOx Emissions</td>
<td>114</td>
<td>105</td>
<td>591</td>
<td>730</td>
</tr>
<tr>
<td>VOC Emissions</td>
<td>450</td>
<td>460</td>
<td>1,312</td>
<td>1,297</td>
</tr>
</tbody>
</table>

EN (11): NOx, SOx and VOC Emissions

Units: Metric Tons
306-1 Total water discharge by quality and destination
Linde did not have any unplanned water discharges in 2019. Where Linde facilities discharge process water, discharges are governed by discharge permits issued by a regulatory agency. Linde estimated chemical oxygen demand (COD) at these sites to be 2,220 metric tons in 2019.

306-2 Waste by type and disposal method

Hazardous waste
Linde uses local country regulations to define and report hazardous waste.
Linde tracks the amount of hazardous waste recycled but does not track the portion of this that is sold. Linde estimates that about half of recycled hazardous waste is marketable. Linde reports the half that is marketable in the table below in the row “Hazardous waste sold that was marketable;” the other half is included in the row “Hazardous waste disposed.”

Non-hazardous waste
The large decrease in both non-hazardous waste used/recycled/sold and total non-hazardous waste between 2017 and 2018 is largely due to sourcing acetylene byproduct from a chemical plant in the U.S. This byproduct sourcing decreased Linde’s production of acetylene in the U.S. in 2018 and 2019. As lime is a waste product from the acetylene process, the lower levels of acetylene production led to a significant decrease in Linde’s waste totals. Linde also no longer classifies lime as a waste product; see Changes in Methodology below.

Changes in Methodology
For 2016 and 2017, Praxair considered lime as a non-hazardous waste and included it in the “non-hazardous waste used/recycled/sold” row. This reporting methodology was retained for 2016 and 2017 reporting. In 2019, Linde consolidated its waste methodologies and applied the consolidated methodology to both pro forma 2018 and Linde 2019. Lime is not classified as a waste in several of the countries where Linde operates. Since lime is in most cases recycled, Linde does not track the weight of lime generated. The reduction in recycled non-hazardous waste between 2017 and 2018 can be attributed to both the sourcing of byproduct acetylene described above as well as eliminating lime as a waste stream in Linde’s data beginning in 2018.

Zero Waste Program
See page 25 of this report for information on the Zero Waste Program and performance against the SD 2028 Zero Waste target.

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<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>Hazardous waste disposed</td>
<td>5,900</td>
<td>7,000</td>
<td>27,800</td>
<td>27,300</td>
</tr>
<tr>
<td>Hazardous waste sold that was marketable</td>
<td>1,950</td>
<td>3,200</td>
<td>2,200</td>
<td>6,800</td>
</tr>
<tr>
<td>Total hazardous waste generated</td>
<td>7,850</td>
<td>10,200</td>
<td>30,000</td>
<td>34,100</td>
</tr>
</tbody>
</table>

EN (12): Hazardous Waste
Units: Metric Tons

<table>
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</tr>
</thead>
<tbody>
<tr>
<td>Non-hazardous waste disposed</td>
<td>10,100</td>
<td>10,200</td>
<td>32,100</td>
<td>28,700</td>
</tr>
<tr>
<td>Non-hazardous waste used/recycled/sold</td>
<td>64,100</td>
<td>111,800</td>
<td>45,300</td>
<td>35,000</td>
</tr>
<tr>
<td>Total non-hazardous waste generated</td>
<td>74,200</td>
<td>122,000</td>
<td>77,400</td>
<td>63,700</td>
</tr>
</tbody>
</table>

EN (13): Non-Hazardous Waste
Units: Metric Tons
306-3 Total number and volume of significant spills
There were no significant spills in 2019.

306-4 Weight of transported, imported, exported or treated waste deemed hazardous under the terms of the Basel Convention Annex i, ii, iii, and viii, and percentage of transported waste shipped internationally
Linde did not transport, import or export hazardous waste across international borders in 2019.

306-5 Identify, size, protected status and biodiversity value of water bodies and related habitats significantly affected by the organization’s discharges of water and runoff
No water bodies or related habitats were significantly affected by Linde water discharges or runoff in 2019.

307-1 Non-compliance with environmental laws and regulations
The company reports significant fines in the year the violation occurred (not the year the fine was paid). Significant fines are those costing more than $10,000. See EN(14).

There was one significant fine assessed to Linde for non-compliance with environmental laws or regulations that occurred in 2019. A fine of $21,000 was assessed for a noise issue at one of the company’s plants in China.

Linde is not aware of any non-monetary sanctions for environmental non-compliance or any actions brought through dispute resolution mechanisms involving independent third-party review.

Environmental Violations and Fines

<table>
<thead>
<tr>
<th>Number of Violations</th>
<th>2016 Praxair</th>
<th>2017 Praxair</th>
<th>2018 Linde Pro Forma</th>
<th>2019 Linde</th>
</tr>
</thead>
<tbody>
<tr>
<td>Value of Fines Related to Above (USD)</td>
<td>$17,200</td>
<td>0</td>
<td>0</td>
<td>$21,000</td>
</tr>
</tbody>
</table>

EN (14): Environmental Violations and Fines

308-1 New suppliers that were screened using environmental criteria
One-hundred percent of suppliers that present environmental risk are screened using environmental criteria.

308-2 Significant actual and potential negative environmental impacts in the supply chain and actions taken
Linde values its supplier relationships and works to develop supplier capacity. Linde uses a risk-based approach to supplier management. Those suppliers at risk of negative environmental impacts are principally suppliers of chemicals, or process and specialty gas suppliers, and all are subject to additional pre-qualification requirements. These qualifications are revisited in periodic audits and in any contract re-qualification.

Those that show an unwillingness or inability to conform are subject to disciplinary action up to and including contract termination.
400 Series: Social Topics

401-1 New employee hires and employee turnover
Note: This section responds to 401-1 and also responds to 102-8.

Total Employment
The number of employees as of December 31, 2019, was 79,886, reflecting a decrease of 934 employees from December 31, 2018. See SOC (1).

The company’s workforce includes professional/managerial-level employees, technical/administrative employees (drivers), and technical and administrative staff. Many of the company’s truck drivers and administrative assistants in the United States are non-exempt employees. The company has implemented a centralized tracking system for workforce statistics and continues to phase this system globally.

U.S. employees who work more than a pre-defined number of hours per week are entitled to benefits. The distribution of employees by region is provided in SOC (2).

Overall, 73 percent of Linde employees are men and 27 percent are women. The percentage of female senior executives in the global organization is 16 percent. The company’s workforce does not include a substantial portion of work performed by self-employed workers or by individuals other than employees. Regional HR is responsible for managing each respective region, and the company consolidates key metrics at the global level; these are reported here. This indicator is partially reported. The company does not typically employ seasonal labor. 102-8

Turnover
Linde’s global voluntary turnover rate was 6.3 percent.

Globally, Linde does not provide additional details about the number and rate of new hires, as it considers this information to be confidential.

Number of Employees

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>Total</td>
<td>26,498</td>
<td>26,461</td>
<td>80,820</td>
<td>79,886</td>
</tr>
</tbody>
</table>

SOC (1): Number of Employees

SOC (2): Employees by Region
401-2 Benefits provided to full-time employees that are not provided to temporary or part-time employees, by significant locations of operation

The company offers a high-performance culture, values ambitious and creative employees, and incentivizes and rewards good performance. Employees can expect to receive a competitive pay package that recognizes the experience, skills and abilities they bring to the company.

Training and development are offered, as well as a full range of benefit programs ranging from wellness to work-life balance. Benefits are available to all full-time employees—in the U.S., those working more than 20 hours per week—and vary according to business unit. Paid vacations and holidays, life and accident insurance, healthcare, disability/invalidity coverage, primary caregiver leave (maternity/paternity leave, including for adoption), flextime, education reimbursement, wellness allowances and a range of personal and family insurance policies, options for professional services (legal, counseling, medical care, childcare, eldercare), purchasing subsidies (personal office equipment and supplies, gym membership/equipment) and retirement provisions are some of the types of benefits provided to employees of the organization. Many specific program descriptions here apply to U.S. programs, but equivalent programs may be offered in each country and referenced on that country's careers website. These benefits are generally not provided to temporary or part-time employees by major operations.

- Flexible Work: The company understands that everyone has commitments outside of work. Recognizing this, the company has global policies that provide work arrangements that help employees meet enduring or shorter-term personal needs through formal and informal means. For example, in the United States, Linde offers paid personal days and a Flexible Work Policy that allows flexible scheduling.
- Work/Life: The company offers a confidential resource and referral service for practical advice and referrals related to parenting and childcare, eldercare, financial and college planning, retirement planning, survivor support programs and more. Facilities offer accommodations to employees.
- Health and Wellness: A range of activities are offered to all employees to support employee health and wellness. They include seminars on such diverse topics as financial health/retirement; stress management information and stress management/reduction techniques and training; sleep management; managing work-life issues such as a family member with Alzheimer's disease; community engagement; office picnics/parties; and "bring your child to work day." Some activities are managed by an Employee Activity Council or similar and vary by site. For those participating in the company medical plan in the United States, benefits include a Healthy Living Plan, nutritional/health support and a 24-hour nursing consultation. Some sites also have on-site fitness programs.
- Volunteerism: Linde is committed to supporting the communities around the world where its employees live and work. Employees are encouraged to participate in volunteerism and community engagement activities. Its Global Giving program provides substantial matches to a range of employee giving. Community engagement is part of the company culture, and employees at all levels of the company contribute their time and skills to help build resilient communities. Corporate policies allow employees to volunteer during work hours with the support of their managers. Options for employees include employee-driven projects, giving campaigns such as the annual United Way campaign held at various locations, and the year-round matching gift program. The matching gifts program provides a 100-percent match for all eligible donations, up to $15,000. It was previously available to employees in the United States; a similar program has also been extended to other regions.

401-3 Return to work and retention rates after parental leave, by gender

Subject to country or region's laws, Linde employees of either gender are entitled to parental leave or benefit entitlement that may be used for parental leave purposes.

Additional employee benefits and entitlements in the United States fall under the Family and Medical Leave Act (FMLA) and Short-Term Disability (STD). To be eligible for FMLA leave benefits of 12 weeks in a year, an employee must meet some eligibility requirements, for example, time worked for the company (12 months). The FMLA covers birth, adoption or foster care of an employee's child within 12 months after the birth or placement of the child (“Bonding Leave”); care for an immediate family member (spouse, child or parent) with a serious health condition (“Family Care Leave”); and an employee's inability to work because of a serious health condition ("Serious Health Condition Leave"). Other countries have equivalent programs. In the United States, full-time employees, having one year or more of service, who are parents of newly birthed or adopted children are eligible for a Primary Caregiver Leave, which allows parents of newly birthed or adopted children up to 10 weeks of leave. This includes four weeks of paid leave in addition to any disability benefits that may be available. In addition, subject to management’s discretions, all new parents may request flexibility or accommodations in the six months after birth or adoption.

At this time, the company does not report on the number of employees who took parental leave or their return to work retention rates.
402-1 Minimum notice periods regarding operational changes, including whether these are specified in collective agreements

Note: This section responds to 402-1 and also responds to 102-41.

Linde considers relations with its employees to be excellent.

Linde's CBI makes clear the company's commitment and management processes to address relevant areas of human rights concern, including freedom of association and freedom of peaceful assembly, and the freedom to choose whether to engage in collective bargaining or to participate in works agreements in various countries. Thirty-two percent of Linde employees worldwide belong to an independent trade union or are covered by collective bargaining agreements or are members of work councils.

The company has collective bargaining agreements with unions at numerous locations throughout the world, which expire at various dates. Most of the company's labor agreements have language that defines severance arrangements. In countries or companies where employees have third-party representation via a works council or collective bargaining, the company respects these relationships and works with these third parties in a mutually respectful manner. In the case of work councils, the company meets any predetermined notice periods mutually agreed to by the parties. 102-41

As a matter of business practice, the company keeps employees well informed of operational changes through normal internal communications channels, most notably its corporate intranet, through which global/corporate information and business unit information (in home country language) is provided directly to employees. Business leaders also communicate through regular channels that include periodic business teleconferences, newsletters and issue communications.

The company makes every effort to be proactive and to provide reasonable notice to all employees if a significant change occurs, and it has a good record of employee relations in countries where it does business.

403-2 Type of injury and rates of injury, occupational diseases, lost days, and absenteeism, and total number of work-related fatalities, by region and by gender

Key KPIs for Linde's safety performance include days away from work (lost workday case rate), and the tracking of illnesses and injuries, including fatalities and occupational diseases. These and other safety key figures are reported monthly to the Office of the Chairman. In addition, Linde's full Board of Directors has responsibility to review safety and environmental risk at each Board meeting.

The Board has established a strategic business objective to maintain best-in-class performance in safety. Accidents and near misses are closely monitored, reported and investigated. Evaluations of these events are performed, and the lessons learned are communicated in safety training and special safety alerts for the relevant work groups. The benefit of these continuous efforts is that Linde's employee and contractor safety performance continues to be better than general industry benchmarks and among the best within the industrial gases and chemical industry.

To promote continuous improvement and recognize efforts contributing to a safe working environment, Linde recognizes its businesses through safety awards for reduction in recordable injuries, lost workday cases and/or product vehicle accidents. In addition, Linde annually holds a global "Safety Commitment Day," which provides information about different safety issues and various workshops around safety. External contractors are also invited to join in safety programming.

Linde also promotes a healthy work environment by, for example, providing employees with information on ergonomics and lighting considerations. Linde controls workplace environmental factors, including noise, lighting, indoor air quality, humidity and temperature.

Linde reports safety rates for Praxair in 2016 and 2017, Linde pro forma for 2018, and Linde consolidated for 2019. See tables SOC (3) and SOC (5).

Contractor lost workday case rates are reported for construction contractors. See SOC (4).

Vehicle safety rates are reported for commercial vehicles. See SOC (6) and SOC (7).

Pro forma rates for 2018 are estimates.
See also pages 24–25 for information related to 2019 performance and the SD 2028 targets.

**Global Safety Performance**

<table>
<thead>
<tr>
<th></th>
<th>Worldwide</th>
<th>Worldwide</th>
<th>Worldwide</th>
<th>Worldwide</th>
<th>Americas</th>
<th>Asia Pacific</th>
<th>Europe</th>
<th>Middle East &amp; Africa</th>
<th>Other Areas</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rates of occupational diseases (Total: 11 worldwide)</td>
<td>0.009</td>
<td>0.010</td>
<td>0.010</td>
<td>0.011</td>
<td>0.003</td>
<td>0.044</td>
<td>0.005</td>
<td>0.009</td>
<td></td>
</tr>
<tr>
<td>Lost Workday Case Rate overall (Total: 202 worldwide)</td>
<td>0.073</td>
<td>0.062</td>
<td>0.28</td>
<td>0.210</td>
<td>0.056</td>
<td>0.140</td>
<td>0.271</td>
<td>0.330</td>
<td></td>
</tr>
<tr>
<td>Rates of injury (Total: 580 worldwide)</td>
<td>0.307</td>
<td>0.371</td>
<td>0.72</td>
<td>0.602</td>
<td>0.496</td>
<td>0.318</td>
<td>0.406</td>
<td>0.908</td>
<td></td>
</tr>
<tr>
<td>Rates of injury and illness (Total: 591 worldwide)</td>
<td>0.32</td>
<td>0.381</td>
<td>0.733</td>
<td>0.613</td>
<td>0.500</td>
<td>0.362</td>
<td>0.412</td>
<td>0.916</td>
<td></td>
</tr>
<tr>
<td>Global Work-Related fatalities, Employees</td>
<td>1</td>
<td>0</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Global Work-Related fatalities, Contractors</td>
<td>0</td>
<td>0</td>
<td>5</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

SOC (3): Global Safety Performance by Region
Units: Rate per 100 employees, number of fatalities

**Construction Contractor Lost Workday Case Rate**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Lost Workday Case Rate</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0.09</td>
</tr>
</tbody>
</table>

SOC (4): Construction Contractor Lost Workday Case Rate
Units: Rate per 100 contractors

**Tier 1 Process Safety Event Rate**

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>Tier 1 Process Safety Event Rate</td>
<td>0.027</td>
<td>0.021</td>
<td>0.03</td>
<td>0.037</td>
</tr>
</tbody>
</table>

SOC (5): Tier 1 Process Safety Event Rate
Units: Rate per 100 contractors
SOC (6): Worldwide Product Vehicle Safety: Linde Drivers
Units: Rate per million km

SOC (7): Worldwide Product Vehicle Safety: Contract Drivers
Units: Rate per million km
404-1 Average hours of training per year per employee by gender, and by employee category

Business Benefits from Training and Education

Like many companies, Linde must attract, hire and retain qualified personnel to develop, market or sell its products or successfully manage its business. Linde is dependent upon its highly-skilled, experienced and efficient workforce to be successful. Much of Linde’s competitive advantage is based on the expertise and experience of its key personnel in marketing, technology, manufacturing, distribution infrastructure, systems and products. The inability to attract and hire qualified individuals, or the loss of key employees in very skilled areas, could have a negative effect on the company’s financial results. Investments in employee training and development bring value, but this is often hard to measure, or of indirect business benefit. The challenge in this area is to create training interventions that bring direct learning and measurable business benefits.

One example of the company’s investment in development training demonstrates the multiple values of employee development programs to employees and to the company. The Talent Development team has conducted needs assessments to ensure that potential programs met the needs of the company. One key goal was to increase the engagement and efficiency of the company’s people managers. Some key e-learning initiatives resulted, and these programs are now increasingly employing technology in training and development. Two examples of continued deployment of e-learning in 2019 include the use of Skillsoft and the “Inclusion Boost” program.

Many e-learning programs exist throughout the globe: The APAC team piloted an online platform to increase digitalization skills. Nearly 500 employees have participated in this pilot.

Employee Learning and Development

The careers and career paths of Linde employees are strategically managed. Employees and management use a range of competence-based and goal-setting tools. Employees store and maintain resumes, experience, completed training, certifications achieved, performance appraisals and career goals and aspirations. Career paths are planned in conversations with their managers against competency ladders. These plans are used for talent development and succession planning and in internal recruitment.

Linde has invested in Learning Management System (LMS) software that facilitates global reporting of formal training. The data reported below is a subset of all the company-sponsored formal training provided. The LMS system enables all businesses and functions to house, track and offer training and training-related information on a single enterprise platform. Linde will expand the system in 2020.

Linde reports an average of 9 hours of training globally (regional average); however, these hours vary depending on training needs and budgets. See SOC (8).

In 2019, the company continued to expand the use of technology to offer significant training with increased efficiency of time and cost:

- The company expanded its e-learning offering to more than 3,500 employees. In 2019, nearly 26,000 courses, videos and other resources were taken, representing 61,459 training hours.
- The company continued the use of e-learning to reach substantially all employees for business integrity and sustainability training. Globally, this is typically more than 20,000 employees.

When added to standard compliance training and safety training, employees received an average of at least 61 hours in 2019. See SOC (9). This training consists of:

1. Ethics and compliance training: This is mandatory at all levels. The average employee receives two hours of training each year.
2. Employee development training: Linde employees received an average of 9 hours of formal training in 2019.
3. Professional skills training: Employees in specific businesses and functions receive additional training as needed or requested.
4. Management and development training: The company also provided additional management and development training as needed or requested.

Safety Training

Linde is committed to providing its employees with a safe operating environment by investing in state-of-the-art technology and driving a culture in which safety is the top priority. Accordingly, the company rigorously focuses on training to prevent work-related risks and/or occupational health hazards for employees, their families, contractors and, in many cases, for community members. Its industry-leading safety performance is the result of a program of continuous training and communication using a wide range of media.

In 2019, Linde invested nearly 5 million hours in safety training for its employees and contractors. The average Linde employee (at facilities and offices) received 50 hours of formal safety training in 2019 (See 204-1 for information on safety training for contractors.)
All sites in all regions and business units have periodic safety meetings and an annual Safety Commitment Program, which is held at every facility globally and represents Linde’s commitment to safety (operations are shut down for Safety Commitment Programs). There are periodic “stand-down” meetings when operations are stopped for a safety program, continuous short “toolbox” reviews, and additional annual training for specific job functions and for compliance purposes. In addition, Linde conducts general safety training and communication through a range of global, regional and site-based channels on a needs basis, for example, in relation to safety changes in different seasons, a worldwide health threat or to communicate learnings after a safety incident. Safety training is conducted for all employees, in all functions.

Cultural Awareness, Diversity and Inclusion, and Unconscious Bias Training

Training is one of the four key tenets of Linde’s diversity and inclusion strategy. Accordingly, training is offered globally through multiple platforms, with various contents and to various levels across the organization. Diversity and inclusion training goals are to enhance managerial and leadership capabilities in understanding the business case for diversity and building inclusive leadership skillsets, and also equipping employees to effectively manage talent in a multicultural, increasingly diverse environment.

Classroom training and e-learning are used to enhance personal and managerial skills and are offered on a mandatory and voluntary basis. Since 2015, the company has implemented unconscious bias training and tools for managers; more than 1,000 global managers have received this training. “Inclusion Boost” was introduced in 2018. This self-directed training uses videos to reinforce inclusion initiatives and prior unconscious bias training. In a series of short videos, employees can learn, reflect and share. More than 2,000 employees have participated in this training.

Peru’s “I am Part of the Change” program provides employees with awareness of victimization behaviors, along with tools to help maintain a working environment that is comfortable for all. The program also includes tools to build self-esteem and self-confidence.

Informal diversity training is also offered at all global locations, embedded within celebrations of Global Diversity Day and International Women’s Day events, during which time the company offers learning webinars and inclusion activities. The company also celebrates heritage days around the world to recognize the global diversity of its employees.

Leadership and Skills Development

Classroom training is only part of the education that employees receive. Mentoring, networking, skills training and work experience are all designed to enhance employee career opportunities. Some employees receive formal mentoring, and there are various networks for employees to join based on interest (e.g., Toastmasters clubs or “Success Network” events). Eligible employees receive tuition reimbursement for approved studies, including university degrees. Following are highlights of additional initiatives that promote the career development of employees:

- Widespread e-learning opportunities to increase technical and managerial skills and for personal development. The Personal Development Center, for example, provides online coaching and tools for developing competencies used in annual performance evaluations, and other valued skills.
- An enterprise-wide LMS system enables all businesses and functions to house, track and offer training and training-related information on a single enterprise platform.

Business Programs

The company’s commercial and corporate programs offer challenging projects that help prepare dynamic sales and corporate talent within the business. Examples include the following rotational programs:

- Commercial Development Programs
  - Linde’s Sales Representative Training Program: This 10-day course prepares sales team members with customer relationship management tools, as well as clinical knowledge.
  - Commercial Leadership Program (CLP): The CLP is designed to expose employees to key areas within the company’s sales arena and cylinder gas business.
  - Leadership and Technical Orientation Program (LTOP): LTOP is a one-year program designed to introduce employees to the operations and commercial aspects of the America’s gases business in the United States, such as plant startups or shutdowns, maintenance, project planning and execution, project management, sales and planning.
  - International Leadership Development Program (ILDP): ILDP is a two-year international program designed to expose attendees to key business areas and help them to build their skills. Rotations can be across several functions, including the financial, business development and marketing areas.
- Corporate Development Programs
  - Leading in Linde (LIL): This three-day supervisory skills program is offered in all geographies. To date, more than 2,300 managers have benefitted from this training, helping them to expand their managerial skills. This program allows the company to standardize managerial practices around the world.
  - Career Development Program (CDP): This program was developed for early-career employees. Three classes were trained in 2019, and "Train the Trainer" sessions for regional groups provide the capability to deliver the CDP to more employees, as millennials continue to enter the workforce.
  - General Managers Program (GMP): This program teaches employees how to create value using experiential techniques. The program enhances employees' ability to operate in a competitive business environment.
  - The Global Leadership Program (GLP): This program helps prepare future executives to develop the business management and leadership skills required to achieve both short- and long-term business objectives. Participants work to understand their leadership strengths and weaknesses and to develop the potential of their own direct reports.

Digitalization: Developing Skills for the Future
Linde also makes investments in employees so that they are prepared for the increasingly fast-moving and data-intensive world and better grasp opportunities from digitalization. Over the last three years, Linde has introduced “digital transformation” programs. The cornerstone program involves a three-month session, which includes coaching, immediately followed by opportunities to put the concepts into practice. The program includes digital boot camps, introduction to AGILE frameworks, demystification of digital technologies and use cases. The teams focus on solving real business challenges utilizing new methodologies, tools and digital technologies. Teams also explore alternative and more efficient modes of technology platforms. A key goal of the sessions is to simplify processes and to build digital solutions, products and tools that move decision-making from descriptive to predictive. To date, more than 700 cross-functional employees from all areas of the business have participated in these programs and increased their digital capabilities. Projects implemented have resulted in productivity improvements and new ways to solve business challenges.

This indicator is partially reported. Linde businesses are responsible for HR management at their respective regional level. Key metrics are consolidated at the global level and reported here.

### Global Employee Development Training

<table>
<thead>
<tr>
<th>Employee development training, not including safety</th>
<th>Linde</th>
</tr>
</thead>
<tbody>
<tr>
<td>2019</td>
<td>9</td>
</tr>
</tbody>
</table>

**SOC (8): Global Employee Development Training, not Including Safety Training, Average Units: hours per employee**

### Global Employee Training

<table>
<thead>
<tr>
<th>All employee compliance training (ethics, integrity)</th>
<th>Praxair</th>
<th>Praxair</th>
<th>Praxair</th>
<th>Praxair</th>
</tr>
</thead>
<tbody>
<tr>
<td>2016</td>
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<tr>
<td>2017</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>9</td>
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<tr>
<td>2018</td>
<td>37</td>
<td>37</td>
<td>37</td>
<td>50</td>
</tr>
<tr>
<td>2019</td>
<td>51</td>
<td>51</td>
<td>51</td>
<td>61</td>
</tr>
</tbody>
</table>

**SOC (9): Global Employee Training, Average Units: hours per employee**
404-2 Programs for upgrading employee skills and transition assistance programs

Linde offers a wide variety of training programs to different groups of employees to support their professional development and help them advance in their respective functions. Examples included:

- Linde provided training programs and university courses with a work experience element to young people, as well as training opportunities in various technical and commercial areas. In Germany, in 2018, the company offered vocational training in 26 different professions. Many of the apprentices and student trainees were offered job opportunities.
- The Emerging Leader Programme is targeted to managers in transition (from first-line managers to middle managers). It was launched in 2018 in all three segments with 60 people participating.
- Eligible employees receive tuition reimbursement for eligible studies such as an MBA.
- Linde Engineering’s Project Execution Academy (PEA) provides an opportunity for project managers to gain industry-recognized Project Management Professional (PMP) credentials. This fosters a better understanding of the project execution process and, ultimately, better preparation to lead company construction projects.

Several learning and development tools are made available to employees to allow them to develop professional and interpersonal skills. Employees participate in industry conferences and seminars that facilitate best-practice sharing and professional networking. The company’s financial services vendor routinely offers on-line and in-office seminars on financial planning, including financial planning for employees approaching retirement, in some areas. In the United States, under the company’s generally applicable severance plan, if employment terminates for certain reasons, U.S. employees are generally eligible for severance benefits of up to a maximum of 26 weeks of base pay, depending on their completed years of service. In addition to retirement savings plan benefits, the company offers access to financial planning tools and resources to aid in transition to retirement.

404-3 Percentage of employees receiving regular performance and career development reviews

Talent Management

At least annually, all eligible Linde employees meet formally with their supervisors to review their performance and development opportunities. Employees receive a performance appraisal through the systematic use of agreed-upon measurable targets and a multi-dimensional performance appraisal. Performance reviews and development plans are a part of a global talent management system, which is designed to effectively utilize and advance employees across all regions.

Performance

Every year, Linde ensures that managers and employees measure the results of individual objectives, creating a transparent link between performance and rewards. All employees around the world are expected to obtain results and demonstrate a series of competencies and behaviors that support the local business strategy.

The company’s performance management process is designed to:

- Ensure alignment between employee and business unit/function goals.
- Enhance communication between employees and managers.
- Promote meaningful assessment and evaluation of individual performance.
- Promote alignment between individual performance and pay.

The focus on continuous improvement allows employees to update goals based upon business needs. This fosters collaboration between managers and employees. Goals are the driving force behind achievement and provide an opportunity to challenge employees and improve their skills. Goals serve the needs of the company and aid in the development of employees.

405-1 Diversity of governance bodies and employees

Global Diversity and Inclusion is a formal support function operating under Corporate HR and develops strategies and initiatives within four pillars: Talent Management, Inclusive Culture, Managerial Training and Marketplace Branding.

Linde’s Board of Directors, CEO and Management Committee monitors results by business group in diverse representation at all levels of the talent pipeline, including senior leadership, talent acquisition, talent development and advancement, managerial training and workplace culture and
engagement. This oversight, which includes quarterly reviews, provides accountability for business leaders and ensures that diversity and inclusion is sustained as a top priority for the organization’s long-term growth and viability. Each subsidiary and business is held accountable through the development and implementation of an annual Diversity Action Plan that includes both qualitative and quantitative aspirational goals.

Among other things, Linde (1) sponsors talent pipeline initiatives, including employee resource groups, for diverse talent segments; (2) celebrates heritage days and cultural awareness events; (3) offers Inclusive Leadership and Unconscious Bias training to employees; and (4) brands itself through social media and other forms of external communications. See also 404-1.

SOC (10) provides current and historical information on diversity in the Board, global senior leadership team and CEO senior management team.

The Linde Board of Directors consists of 12 members, including its CEO. In 2019, all were over 50 years old. Of the 12 Board members, three (25 percent) are female, and one board member is African-American.

In 2019, half of executive officers were over the age of 50, and half were 50 or below.

Globally, the percentage of women employees is 27 percent.

Linde is committed to sourcing and retaining local talent, particularly in its emerging economy countries. The company does not currently report global diversity breakdowns in all the ways requested in the GRI Standards.

In addition, Linde reports on the age distribution of its global workforce in the following categories: silent generation (those born in 1945 or before); baby boomers (those born from 1946 to 1964); generation X (those born from 1965 to 1980); millennials (those born from 1981 to 1996); and generation Z (those born in 1997 or later). See SOC (11).

### Diversity in Global Leadership and Management

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<tbody>
<tr>
<td><strong>Board Diversity</strong></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>% Women</td>
<td>18</td>
<td>11</td>
<td>25</td>
<td>25</td>
</tr>
<tr>
<td>% U.S. minority</td>
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<tr>
<td>% Total board diversity</td>
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<td>33</td>
<td>33</td>
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<tr>
<td><strong>Executive Leadership</strong></td>
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</tr>
<tr>
<td>% Women</td>
<td>17</td>
<td>17</td>
<td>19</td>
<td>16</td>
</tr>
<tr>
<td>% U.S. minority</td>
<td>43</td>
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<td>18</td>
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<tr>
<td>% Total executive diversity</td>
<td>51</td>
<td>53</td>
<td>51</td>
<td>21</td>
</tr>
<tr>
<td><strong>Global Diversity (Male/Female)</strong></td>
<td>Male/Female</td>
<td>Male/Female</td>
<td>Male/Female</td>
<td>Male/Female</td>
</tr>
<tr>
<td>% Overall</td>
<td>81/19</td>
<td>81/19</td>
<td>81/19</td>
<td>73/27</td>
</tr>
<tr>
<td>% Management level and up</td>
<td>83/17</td>
<td>83/17</td>
<td>83/17</td>
<td>81/19</td>
</tr>
</tbody>
</table>

* For 2018, data provided for Executive Leadership and Global Diversity is for legacy Praxair.

SOC (10): Diversity in Global Leadership and Management

Units: percentage
SOC (11): Age Distribution, Linde Employees
Units: percentage

405-2 Ratio of basic salary and remuneration of women to men
Linde’s compensation policy assigns jobs into pay grades based on job descriptions so that employees with comparable functions and responsibilities are compensated appropriately, regardless of age, sex, race or other prohibited characteristics. As part of its compensation program, Linde conducts annual pay equity analyses in the United States and in other countries where required by law.

Linde disclosed compensation information for named executive officers, both men and women, as well as the ratio of CEO pay to the median employee. See Linde’s 2020 Proxy statement, pages 57 and 75. Other specific salary information is confidential.

406-1 Incidents of discrimination and corrective actions taken
Discrimination is prohibited by company policies. The Board of Directors has approved the CBI and related program(s) to provide additional, specific business conduct guidance to employees.

Linde is committed to recruiting, hiring, compensating and promoting people based solely on their abilities, performance and qualifications for their jobs, and to maintaining a professional work environment in which employees are treated with respect and dignity. As part of its commitment to equal employment opportunity, the company prohibits discrimination or harassment based on race, color, religion, sex, national origin, age, disability, veteran status, pregnancy or gender identity or expression. This prohibition is applicable to all employees worldwide whether such behavior is prohibited by the laws in the regions where it operates. The company is also committed to complying fully with applicable labor and employment laws wherever it operates.

The company takes these standards very seriously, and any non-compliance, depending on the circumstances, can result in serious disciplinary action, up to and including termination of employment. Information was distributed to employees worldwide to outline management’s expectation of ethical conduct and integrity wherever Linde does business. Employees are required to annually certify that they have read and understood the material. This was done most recently in early 2020.

Employees are expected to report suspected complaints, concerns and violations through a number of channels, including the Linde Integrity Hotline. Reports may be made anonymously. All reports to the hotline are appropriately investigated and satisfactorily closed. It is a violation of company policy for any person to retaliate against any individual who has reported such a matter in good faith.

Reports to the company’s Integrity Hotline include, but are not limited to, potential human rights violations and potential incidents of alleged discrimination involving internal and/or external stakeholders across operations in the reporting period. See 412-1, 412-2, 414-1 and 414-2. The year 2019 was the first year Linde reports for the consolidated company. Prior year reports are for legacy Praxair and are not a basis of comparison with Linde in 2019.
In 2019, 776 reports were made to the Linde Integrity Hotline. Of these reports, 430 were substantiated. In 2019, Linde expanded categorizations; therefore, the data for 2019 and prior years is not comparable. See SOC (12). The range of issues were appropriately investigated and addressed. The director of internal audits is responsible for maintaining and retaining complete records about the receipt of all targeted complaints and their reporting, investigation and final resolution. The director of internal audits develops and maintains a control and follow-up system for targeted complaints, including, to the extent he/she deems appropriate, a written tracking system to ensure that each complaint is promptly followed up and resolved, accountabilities are assigned and communicated, and each step in the handling of the complaint is described in detail.

### Hotline Reports

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</thead>
<tbody>
<tr>
<td>Number Reported</td>
<td>387</td>
<td>393</td>
<td>340</td>
<td>776</td>
</tr>
</tbody>
</table>

SOC (12): Hotline Reports
Units: Number of Reports

**407-1 Operations and suppliers identified in which the right to exercise freedom of association and collective bargaining may be at risk**

Note: This section responds to 407-1 and also responds to 409-1.

Linde’s CBI and Corporate HSE Policy, as well as other corporate and country-level policies, make clear the company’s commitment and management processes to address relevant areas of potential human rights concern. These include: freedom of peaceful assembly, including freedom to choose whether to engage in collective bargaining, and employees’ participation in works agreements in various countries. Linde’s Supplier Code of Conduct makes clear that suppliers are expected to recognize, as far as legally permitted, the right of free association and collective bargaining of employees. For actions taken, see 412-2.

**408-1 Operations and suppliers identified as having significant risk for incidents of child labor**

Linde’s CBI and Corporate HSE Policy, as well as other corporate and country-level policies, make clear the company’s commitment and management processes to address relevant areas of potential human rights concern. These include prohibition of any form of child labor. Linde’s Supplier Code of Conduct makes clear that suppliers are expected to prohibit child labor and comply with minimum working age requirements prescribed by national laws and international conventions.

**409-1 Operations and suppliers at significant risk for incidents of forced or compulsory labor.**

Linde’s CBI and Corporate HSE Policy, as well as other corporate and country-level policies, make clear the company’s commitment and management processes to address relevant areas of potential human rights concern. These include prohibition of any form of forced labor, including human trafficking. Linde’s Supplier Code of Conduct makes clear that suppliers are expected to prohibit any form of forced labor, including forced prison labor, indentured labor, bonded labor, slave labor or any form of human trafficking.

**410-1 Security personnel trained in the organization’s human rights policies or procedures**

One-hundred percent of Linde’s security personnel were trained in Linde’s CBI, which contains a section on human rights. See 412-2.

**411-1 Incidents of violations involving rights of indigenous peoples**

In 2019, there were no determinations of Linde’s operations precluding employees from their rights to freedom of association, there was no likelihood of incidences of child labor or forced labor, and Linde was not involved in any incidents of violation of the rights of indigenous people, so action was not required.
412-1 Operations that have been subject to human rights reviews or impact assessments

An "adverse human rights impact" occurs when an action removes or reduces the ability of an individual to enjoy his or her human rights. Both because it is consistent with the company’s values and because of potential risk, Linde actively seeks to avoid causing or contributing to adverse human rights impacts through its own activities with its employees, contractors and suppliers, and also with JVs, including those over which the company does not have management control. Linde may be required to address human rights impacts when required by national regulation, and may choose to take voluntary action to support its values and reputation, even if it has not contributed to those impacts.

Operational human rights issues include those connected to employee and contractor work conditions (e.g., safety, training, personal protective and other safety equipment, the prohibition of forced or child labor, and if appropriate, access to housing and to clean and sanitary facilities) and worker wellness (inclusion, development opportunities, diversity, access to healthcare and appropriate facilities). These are assured as part of the company’s normal management processes in 100 percent of its sites and offices globally, as well as in JVs where it has management control. One-hundred percent of operations were reviewed. This exceeds 1,000 sites. 412-1

Human rights issues also may arise in Linde’s value chain — among Linde’s suppliers, customers or communities. For these and general human rights issues management, see 414-1 and 414-2.

412-2 Employee training on human rights policies or procedures

One-hundred percent of targeted employees are trained annually in Linde’s CBI, which deals specifically with human rights. Assuming a minimum of one hour per person, this amounts to a minimum of 50,000 hours. In addition, 100 percent of employees are trained in relevant issues pertaining to safety and diversity and inclusion.

Training in human rights relevant to Linde’s value chain

One-hundred percent of construction contractors and 100 percent of contract truck drivers are trained in Linde’s operational safety requirements.

Linde has identified a salient human rights risk that it has an opportunity to help mitigate — the crime of sex trafficking along long-haul truck routes. Linde has worked with leading non-governmental organizations (NGOs) in the Americas to bring awareness of this crime to its drivers, contract drivers, management and employees. Since 2012, more than 5,000 employees and contractors have been trained across Linde Americas. Detail was provided in Linde’s 2018 Sustainable Development Report.

412-3 Significant investment agreements and contracts that include human rights clauses or that underwent human rights screening

One-hundred percent of significant investment decisions incorporated human rights screening in keeping with Linde’s CBI. Potential investment agreements that would violate this policy are not pursued. This includes capital investments and acquisitions.

413-1 Percentage of operations with implemented local community engagement, impact assessments, and development programs

Community is a core value at Linde:

We are committed to improving the communities where we live and work. Our charitable contributions, along with employee volunteerism, support initiatives that make important and sustainable contributions to our world.

The company’s commitment to community is executed through two philanthropic program arms:

- Community engagement represents employee- and corporate-led programmatic efforts in communities where the company has a presence.
- Charitable contributions through Linde’s Global Giving program, which provides financial, philanthropic support in the form of scholarships, contributions and support for employee volunteerism and matching gifts.
Both of these strategic arms are aligned and work together to provide a significant, lasting value to local communities, to positively impact the company’s reputation, and to develop and engage employees. Strategically, the programs work to deepen impact, engage employees and drive business goals, complementing the corporate mission of making our world more productive.

In Linde, many community engagement projects are also supported by the Global Giving program; this financial support helps volunteer projects to potentially have more far-reaching, long-term impact.

One-hundred percent of Linde businesses participated in employee volunteer community engagement activities in 2019. 413-1

Businesses also provide charitable development through the company’s Global Giving program. Impact assessments are performed on all reported community engagement efforts and on significant and long-term projects supported by the Global Giving program. 413-1

**Community Engagement Overview**

Since being formally launched 10 years ago, community engagement remains strong. In 2019, Linde employees spearheaded approximately 367 projects across the globe (adjusted for projects conducted by divested sites). These projects represent the efforts of approximately 405 sites. Frequently, sites collaborate on projects. In 2019, 22 percent of Linde community engagement projects were sponsored by more than one site. The incidence of volunteerism — a measure of the number of times individual employees engaged with the community — reached more than 12,000.

The company has a healthy mix of established projects and a growing pipeline of new efforts launched to address changing needs. Approximately 15 percent of projects have continued for more than 10 years, and approximately one-third of projects in 2019 were new initiatives. Community engagement projects are classified by focus area: environment, health, education/diversity and general community support. These focus areas parallel the focus areas of the Global Giving program. See SOC (13), EC (2) and 203-2. Nearly half of community engagement projects are in the priority focus areas of education, diversity and environment.

Examples of company projects include:

- **Education**
  - Secret World of Gases: For years, BOC employees have helped to educate, engage and inspire children with the science of gases. In science centers and museums around the UK, employees introduce the latest innovations, dispel myths and explore how gases will be used for a greener future. Employees have reached hundreds of children through this effort.

- **Diversity**
  - MLK Literacy Kits: Linde employees in the United States donate books annually to support literacy in honor of the Rev. Dr. Martin Luther King, Jr. holiday.
  - In South America, employees mentor underserved populations to help encourage career awareness and preparation.

- **Environment**
  - Earth Week celebration: At Linde sites around the globe, employees, family members and friends join together to conduct cleanup activities and other environmentally friendly projects. Consistent with Linde’s emphasis on Zero Waste and environmental conservation, the teams’ efforts build team camaraderie and promote long-term environmental benefits. These projects formed the basis for many of the projects in the 2019 Earth Week celebration at Linde, which boasted the theme, Protect Our World! In Mexico, for example, sites often host activities where families can participate, if they choose. In 2019, thousands of employees performed individual acts of environmental engagement, which Global Giving matched with a donation to provide seeds for planting in areas where hunger is a pressing concern. The seeds that resulted could produce up to 80,000 pounds of vegetables.
  - Tree Planting: In 2019, Linde employees planted more than 7,000 trees through community engagement activities.

**Sustainable Development Goals (SDGs), Linde’s SD 2028 Goals and Community Engagement**

Community engagement efforts seek to make a lasting impact on communities and to address enduring problems. Linde has tracked projects against the Sustainable Development Goals (SDGs) for the past several years.

Linde’s community engagement program supports the SDGs. Ninety percent of the community engagement projects addressed specific SDGs. These foci also reflect congruence with Linde’s priority areas, focusing on development in the areas of environment, diversity/inclusion and education. For example, approximately one-fifth of projects address SDGs related to education (SDG 4).
Several programs contribute to SDG 8: Decent work and economic growth (to achieve decent work and employment for men and women by 2030) and its subsets. The company’s SKILLS PIPELINE™ workforce development program is directly tied to the SDG for decent work and economic growth (to achieve decent work and employment for men and women by 2030). In 2016, the program was expanded from the Louisiana inaugural effort to China. In 2017, the program was expanded to Indiana in the area of advanced manufacturing. In 2018, the program was further expanded to other geographies in welding. In 2019, the program expanded to professional truck driving, in a program focused on transitioning soldiers. The program also welcomed its first group of dual-credit students, offering high school students in East Chicago, IN, an early start to college and preparation for careers in production maintenance technology. Additionally, a second advanced manufacturing program was started in Danbury, CT. Linde looks forward to continued geographic and job area expansion for this program.

**Recognition and Incentives to Grow Impact**

Enthusiasm for community engagement is complemented by Linde’s global award for Community Engagement. Introduced in 2009, this recognition from Linde’s CEO honors successful efforts that demonstrate a high level of commitment and impact. In 2019, exemplary projects from each business or region were recognized, along with five global winners. Award-winning project teams are honored and receive a significant charitable donation. Projects are recognized for outcomes as well as strategic alignment with company goals.

Charitable awards, when possible, are designated to the original beneficiary organization to enable the project teams to deepen their efforts, and, ultimately, to increase the impact to communities.

**Strategy**

Three strategic elements for community engagement are deepen, engage and drive.

- **Deepen**
  Community need is a primary driver of community engagement.

  Projects are dictated by the needs of local communities combined with the desire and ability of local project teams to help address these needs. Linde community engagement is a proactive outreach to help build community resilience. In order to facilitate needs assessment, the company has conducted training on incorporating community needs assessments when determining projects, and guidance for needs assessment is included in the community engagement reporting tool.

  Sites are encouraged to build strong relationships with local communities. In order to identify and meet local needs, community engagement is frequently conducted with partners, including local government agencies, suppliers, customers and community groups. These partnerships help deepen and extend the ability to help build resilient communities.

- **Engage**
  Community engagement is considered a leadership activity and is initiated by volunteers. It is also a way to increase awareness of community needs.

  Linde often incorporates community engagement at company-sponsored meetings and conferences, and the company uses these events to develop employee skills and company networks; the company has done so formally since 2012. With the support and participation of business leaders, these events continue to spur additional community engagement participation in locations around the globe.

  A hallmark of engagement at Linde has been the annual Earth Week celebration. In place formally since 2012, Earth Week is an opportunity for employees and teams around the world to engage in personal and corporate acts of environmental responsibility, mirroring the culture at Linde every day.

  Projects often involve community activities, including tree planting, roadside clean-ups and school educational events. Employees also share individual environmentally-friendly acts. Linde’s Global Giving program then “matches” each act with a donation; in 2019, this donation funded contributions to community organizations that provide seeds for growing food in areas where hunger is a pressing concern.

  Such programs have not only social impact, but also environmental impact. They also support Linde’s strategic goal to engage employees.

  In addition to the camaraderie, community engagement also helps to develop leadership and other beneficial skills for all employees. Employees participate in design contests for museum exhibits and help to build skills by organizing activities in local communities. Employees
continue to affirm the value of time spent in these activities, and community engagement has been cited as a factor that contributes to choosing to join Linde for employment.

Employees also direct much of the spending from Linde’s Global Giving program. Through matching gifts and employee volunteer grants, the Global Giving program helps employees benefit charities in their communities. About one-fifth of the Global Giving program is employee-directed. The matching gifts program also includes countries outside of the United States.

Drive
Driving impact through community engagement is the third main strategic objective.

Along with employee-led efforts, Linde's corporate-led community engagement efforts work to confirm its mission and align with business drivers through strategic initiatives, especially in the STEM fields. These programs directly help to increase the number of skilled men and women in the workforce. In addition, both illustrate that the Linde community engagement program and Linde's Global Giving program work hand-in-hand.

The skills gap comprises problems for many stakeholders:
- Workers: Lack of preparedness for the underemployed and unemployed.
- Colleges: Disconnects between training and industry expectations.
- Industry: Increased cost or project delays due to training or retraining.

In 2019, Linde also saw the graduation of transitioning soldiers in the company’s SKILLS PIPELINE workforce development program in driving. Some of these graduates have found a place in industry post-transition, and some are working for Linde businesses, demonstrating the ability of programs such as those in the SKILLS PIPELINE family to address the skilled-crafts gap that exists in industry.

In certain programs, students also earn college credit. Two of the newest additions to the SKILLS PIPELINE program family—the Danbury, CT, advanced manufacturing program and the East Chicago, IN, production technology program—allow students to stack credits transferable to degree programs, in addition to gaining industry-relevant credentials and exposure to potential employment opportunities.

The SKILLS PIPELINE program offers a multi-faceted approach to workforce development, including community awareness campaigns, scholarships to provide training for skilled workers, professional development opportunities, support to increase the skills of incumbent workers and instructorships for teachers.

The program celebrated five graduating classes in 2019. Moving into 2020, the company is considering expansion to other skill areas critical for Linde, and to more geographical locations outside of the United States.

Linde has supported schools and training centers for welding technology outside of the United States, especially in regions with low levels of average income, by providing the necessary equipment and expertise. Such programs contribute to improving local living conditions and enhancing equal opportunities.

In South Africa, for example, the company has set up training at schools and donated the necessary equipment. In addition to the student welders, instructors have also benefitted from the company’s training programs. Employees from the subsidiary, Afrox, lend their expertise during regular visits.

Community Input
Community events are often a part of workforce development programming as well as engagement between businesses and neighborhoods. In 2019, such community events were held in Indiana and Connecticut. In addition, the company’s pipeline business has frequent events to educate the community about the business and the importance of safety.

As part of the continuing focus on community relations, as part of its SD 2028 goals, Linde has committed to including community needs considerations in 100 percent of its large engineering projects, starting with the Americas in 2020.
Assessment of Impact: Starting with Need... Ending with Impact

Linde assesses the short- and long-term impacts generated by its philanthropic activity. By understanding community needs and how the company can best help address them, impacts are anticipated at the beginning and then measured at appropriate times during projects. The company assesses the impact of its community engagement and Global Giving programs and performs environmental impact assessments.

Community Engagement Impact Assessment

Impactful projects are the goal of all community engagement efforts. Linde’s most recent Sustainable Development Materiality Assessment (SDMA) identified community engagement as a priority for Linde and its stakeholders. Goals and targets are developed and maintained based on the SDMA, managed and reported in the SDMS and published in this report and in the annual Community Engagement Brochure. Linde’s strong culture of execution complements its efforts to measure the impact of community engagement. As in prior years, Linde measures and reports the social and environmental impact and outcomes, as well as the employee and company benefits, of community engagement based upon a methodology developed by the United Kingdom-based LBG report, Making a Difference.

Before the start of community engagement efforts, project teams focus on desired outcomes from the projects. At the conclusion of each project, the teams measure benefits, as reported by volunteers and/or beneficiaries. Increasingly, third parties help to validate project benefits.

- Inputs
  Inputs are measured by number of hours, number of sites participating and incidence of volunteerism. See SOC (14).

- Outputs
  Outputs are measured by number of beneficiaries, money raised and goods donated. Linde volunteers brought direct benefits to more than 450,000 people, including approximately 150,000 students. See SOC (15). Additionally, projects reported funds that employees and facilities raised or donated in support of community engagement. In addition to funding from the Linde Global Giving program, employees and facilities raised or donated more than $800,000 in cash and in-kind donations, including food, clothing, trees/seedlings and other forms of in-kind support. This contribution included approximately $400,000 in cash contributions from employees and facilities. As a part of efforts to continually validate the program, the cash component of this reported contribution was independently verified by an external party for 2019.

- Impacts
  Key impacts are reported as benefits to project recipients, employee volunteers and to the company. Linde has compared the performance of these metrics over time, and the results are strong year-over-year. See SOC (16).
  - Beneficiary Benefits
    In 95 percent of projects, volunteers reported that community engagement created a positive impact on the attitudes of recipients. In 86 percent of projects, volunteers reported that community engagement provided recipients with job skills or opportunities for personal growth. In 95 percent of projects, volunteers reported that community engagement had a direct impact on the recipients’ quality of life.
  - Employee Benefits
    In 94 percent of projects, volunteers reported that community engagement helped to increase their own personal growth and effectiveness. In 96 percent of projects, employees reported that volunteering helped increase their interpersonal development. In 90 percent of projects, volunteers reported that community engagement helped to increase their management effectiveness. Further, in 62 percent of projects, employees reported learning and/or developing skills that were transferable to the workplace.
    Community engagement affects how employees view both Linde and their communities. In 97 percent of projects, volunteers reported that community engagement positively impacted their outlook on Linde and/or their job. In 90 percent of projects, volunteers reported that community engagement gave them a better awareness of the community.
  - Company Benefits
    Benefits to Linde are measured in terms of increased engagement with customers and employees and impact on reputation. In 42 percent of projects, volunteers reported that the community engagement projects allowed better engagement with customers. In 95 percent of projects, volunteers reported that community engagement helped to build employee engagement.
    Regarding the impact on reputation, in approximately 83 percent of projects, volunteers reported that community engagement projects were likely to increase awareness of Linde. In more than two-thirds of these instances, teams reported that third parties have provided validation of their efforts or the positive impact of their project(s).
Longer term, Linde assesses the impact on multiple stakeholders from signature efforts. Considered impacts are both qualitative and quantitative. For example, students who have participated in the company’s SKILLS PIPELINE program have reported high levels of preparation and increased quality of life and self-sufficiency.

College systems have cited increased ability to gauge student completion and the ability to enhance student preparation due to close input from industry. “The opportunity provided our students by Linde is life-transforming. For the past two years, Linde has provided scholarship funding to support NVCC Advanced Manufacturing Technology students in Danbury,” said Dr. Daisy Cocco De Filippis, president of Naugatuck Valley Community College. “Linde is committed to support the sustainability and future growth of the manufacturing industry within the greater Danbury region, and their scholarship support is a fine example of what can happen when industry partners and community colleges come together to grow the workforce and to support communities. More than half of the first cohort’s graduates are currently employed with industry partners, and the other graduates are in the process of being placed with employers. I am confident that our graduates are well-prepared to meet the needs of area manufacturers.”

Linde has seen increased engagement with customers and suppliers, and, ultimately, available skilled talent to meet current demands for workers. It is truly a win-win.

Building Communities... Building Leaders
Community engagement programs often give employees opportunities for leadership. In 2018, a voluntary offering at Linde allowed employees to learn more about voluntary board service and the multiple skills offered through such experiences. Several employees have expressed interest or have joined non-profit boards since the training, increasing engagement with the community.

Community Impact... Business Impact
Linde has seen increased engagement with customers and suppliers, and, ultimately, available skilled talent to meet current demands for workers. Graduates from the company’s SKILLS PIPELINE program have been hired by Linde, its customers and other members of industry. Graduates leave the program with industry-recognized credentials. The program also introduces skills to diverse populations, including women and veterans. The program has also introduced welding to women, historically underrepresented in the field. The first graduating class in Louisiana was comprised of approximately 21 percent women. The second class, which graduated in 2017, was comprised of approximately 17 percent women.

Global Giving Impact Assessment
Since 2014, the company’s Global Giving program has strategically performed impact assessments, also based upon the LBG methodology. Large contributions above a predetermined threshold and long-term contributions are assessed to ensure that outcomes have been achieved. The result of such assessments is annually reviewed by the Global Giving advisory board.

Environmental Impact Assessment
Community impact is a broad consideration at Linde and extends beyond employee philanthropy. Environmental impact assessments are performed in advance of all Linde capital investments. Plant leadership often participates in town meetings to provide information and answer questions. Ongoing monitoring is provided through Linde’s cycle of safety and environmental internal assessments. Linde continues to consider ways to further reach and align with local communities.
SOC (14): Community Engagement Projects Inputs
SOC (15): Community Engagement Project Outputs

SOC (16): Community Engagement Project Outcomes
413-2 Operations with significant actual and potential negative impacts on local communities

Linde is unaware of situations where it has had a negative impact on local communities. The company exercises great care to ensure that its investments in local communities are positive and that local communities perceive the company as a safe place to work and as a good employer. Linde has had no reports of significant potential or actual negative impacts on local communities. Rather, community engagement efforts have demonstrated tangible positive outcomes. See 413-1.

Tree planting projects around the globe, such as those conducted by Linde teams in Seoul, not only help to beautify areas but also combat erosion.

Linde's pipeline community education events, STEM programs and workforce development programs are examples of the ways that Linde aims to make positive, relevant impact in communities. Programs also provide opportunities to develop skills and increase quality of life. Notably, Linde's SKILLS PIPELINE workforce development program has introduced many in the community, including women, to welding. Through the workforce development program in commercial truck driving, soldiers exiting from the military gain skills and credentials before they transition to civilian life.

Linde conducts community events in many neighborhoods, including those near its pipelines. In 2019, Linde's pipeline safety team joined industry peers in co-hosting approximately 30 such events, which help to introduce communities to the importance of safety and to increase familiarity with the industry, facilities and products.

The company's SKILLS PIPELINE workforce development program is indicative of this collaboration with local communities as well as other members of industry, academia and/or government. These programs are intended to have positive economic impact for communities and for individuals and have been well regarded by legislators, industry groups and academic leadership as offering a creative solution to address a recognized need.

These programs build communities by providing resources to potentially impact long-term quality of life.

The company's teams also work with local communities as they enter new geographies. As part of its SD 2028 goals, Linde has a target to include community needs assessments in 100 percent of new, large execution projects, with pilots starting in the Americas.

Plant leadership often participates in town meetings to provide information and answer questions, and new projects are often an opportunity to learn about and help address community needs. In a recent execution project at a local customer, Linde's Bangalore teams discovered a need for improved water sanitation at a local school. Working with construction contractors, the teams improved the water system at the school, which serves more than 100 children. These types of needs assessments and conversations continue to formalize; as part of its SD 2028 goals, Linde has committed to including community needs considerations in 100 percent of its large engineering projects, starting with the Americas in 2020.

Additionally, charitable funds, in-kind donations and resources contribute to overall positive impact on local communities. In 2019, these included:

- Cash contributions from the Global Giving program: $8 million
- In-kind donations raised and donated, including food, clothing, seedlings, product donations and other: $688,000 (including approximately $400,000 through the Community Engagement program and $288,000 through the Global Giving program)
- Approximate value of service by Linde volunteers: $791,000
- Approximate value of management support/overheads: $531,590, including fees paid to external organizations for vetting and processing organizations, included in cash contributions above, as well as an approximation of the staff time to manage the Global Giving and Community Engagement programs. (Note: Programs are internally managed; Linde does not charge overhead to these programs.)

414-1 New suppliers that were screened using social rights criteria

Suppliers are key to Linde's ability to meet its customer needs. One-hundred percent of new suppliers are screened at the prequalification stage for social issues, including compliance with labor and employment laws, ethics and integrity, safety, human rights, environmental aspects and financial stability.

For qualification, suppliers, vendors and contractors must agree to ensure compliance with their contractual commitments and Linde's CBI and Supplier Code of Conduct, including its Human Rights commitments therein, or demonstrate a comparable commitment to business integrity and human rights via their own policies.
The company’s supplier agreements routinely include language that require its suppliers to obey international conventions and national and regional statutory requirements in the countries in which they operate, including any applicable national laws regarding human trafficking, forced labor and other forms of modern slavery. It is currently developing standard language for terms and conditions, which will be included, where applicable, in future contracts. The Procurement organization regularly discusses these expectations with suppliers upon qualification contracting and during any audits conducted, including for 100 percent of critical Tier 1 suppliers.

The executive management team communicates with the company’s top-tier suppliers annually to reinforce its commitment to its policies and to remind suppliers of their obligations in contracting with the company. In particular, the executives reaffirm that the company expects business dealings with suppliers to be based on fairness, honesty, lawfulness, safety, environmental stewardship and social consciousness. It continues to assess the effectiveness of its strategy and, where appropriate, adopt policies and practices that improve its program.

**414-2 Negative social impacts in the supply chain and actions taken**

All suppliers are assessed for social impacts broadly defined, including safety and compliance, which are included within Linde’s basic operational policies and procedures. In the areas that are integral to these operational policies and procedures, such as safety, integrity and compliance, labor standards and anti-discrimination, issues such as non-compliance and remediation are dealt with on an ongoing basis, and no additional action is required. A small number of suppliers were identified outside of these processes, in the area of potential suppliers of materials from conflict zones, see below.

**Due Diligence**

Linde’s Human Rights Due Diligence Process is summarized in Table SOC (17). 414-2

This process is informed by the UN Guiding Principles Reporting Framework. For policies and commitments, see 103 (social), 406-1, 207-1, 408-1 and 409-1.

A set of human rights risks relating to contractors relate to Linde’s CBI and SHE Policy (safety, non-discrimination, ethics and integrity). As with employees, well-established processes assess and address these contractor risks, and mitigation action, if and where required, is taken. One-hundred percent are assessed on a planned schedule through Linde Procurement and through SHEQ internal audits.

**Process to identify and assess salient human rights risks**

Linde uses four tools to identify, review and assess potential human rights risks across the company’s own operations, its contractor operations and the operations of its JVs, including those over which it has no management control:

1. **Internal global Business Risk Assessment process**
   Country management and functional leaders participate in quarterly enterprise-wide global risk assessments. In 2019, human rights as a specific topic was not identified as a top risk, directly or indirectly, nor was it so identified in the last several years.

2. **Continuous review of emerging regulatory issues in human rights**
   It is the job of the CCO, together with the businesses and the CSO, to stay current with emerging regulations in the area of human rights. In 2019, Linde reported, as required by regulation, to comply with the disclosure requirements of the U.S. SEC Conflict Minerals and the EU CSR Directive/Irish Regulation, which includes a request for information about human rights. The latter was provided in Linde’s 2019 Director’s Report and Financial Statement.

3. **Linde’s Compliance Review Board (CRB)**
   The CCO oversees compliance with the CBI and related policies, including human rights. He coordinates activity with business CRBs and with senior management to oversee emerging regulatory issues, review hotline reports and take appropriate action. If these reviews indicate an emerging potential risk, proactive measures are put in place.

   Linde’s CRB reviews information supplied to the Integrity Hotline monthly at the business level and each quarter at the corporate level (including the CEO, Management Committee, general counsel, CHRO, head of internal audit, controller and CCO).
In 2019, there were 776 reports to the Linde hotline, of which none related to potential human rights issues (which would be listed within concerns about “Other Policy Violations”). See Linde’s Integrity Hotline Reports at: [http://www.linde.com/about-linde/sustainable-development/reporting-center/hotline-reports](http://www.linde.com/about-linde/sustainable-development/reporting-center/hotline-reports). No reports were made about potential human rights concerns to the hotline from internal or external parties, and Linde has no knowledge of systematic discrimination by Linde employees against Linde colleagues or third parties (e.g., potential recruits, suppliers, customers) or potentially vulnerable groups (e.g., children, indigenous people, migrant labor or local communities) on the basis of race, color, religion, gender identity or expression, political opinion, national origin, age, disability, veteran status, pregnancy or sexual orientation, and it has no knowledge or reports of unfair compensation or hours of work, lack of access to a safe and sanitary work environment, restrictions on the right to choose or not choose employee organizations, or the use of child, compulsory or forced labor. All of these areas are protected under Linde’s CBI.

The CBI prohibits any form of retaliation against any individual for good faith reporting what he/she believes to be non-compliance with this policy to his/her management, to the appropriate staff group or to the confidential Linde Integrity Hotline. Individual cases of misconduct are promptly investigated. Linde does not tolerate verified misconduct: appropriate measures are taken, up to and including dismissal. Reports to the hotline are reviewed locally by the business CRBs and by the corporate CRB.

The Linde CRB identifies human rights as a potential issue in its hotline classifications, among “Other Policy Violations.” In 2019, Linde reported 35 substantiated incidents of “Other Policy Violation;” none was a human rights issue. If any issue was to arise and be substantiated, it would be managed in the company’s standard process. Substantiated violations of the CBI are escalated to the Management Committee and subjected to a root cause analysis, and a corrective action plan is implemented.

4. Linde annual review of emerging country-level human rights risk

Annually, the CSO reviews trends in human rights risk on a country basis in countries where Linde operates. Groups that were specifically assessed include Linde employees, suppliers, third-party contracted labor and children/adolescents, women, migrant and minority populations. The CSO reviews material in the media and annual human rights reports issued by the U.S. Department of State (DOS). In 2019, this review was expanded to include all Linde countries. The CSO determined that these reports did not indicate new human rights risks, and no new action was taken.

Human Rights Risk — Assessment

There is concern that a small portion about suppliers, or their suppliers, principally for Linde’s Surface Technologies business, could be sourcing materials from “conflict zones” where there is a risk of human rights violations.

- Conflict Minerals in Electronic Materials: Based on Linde’s commitment to governance, compliance and human rights, the most salient human rights issue associated with Linde activities and business relationships is the issue of potential “conflict minerals” in its supply chain. Certain minerals (including tin, tantalum, tungsten and gold) have been linked with funding killings, violence, rape and other human rights abuses in the Democratic Republic of Congo and other conflict zones. These affect all citizens in these regions, particularly women, children and adolescents.

A subset of Linde suppliers —135 suppliers representing 3.9 percent of Linde’s 2019 sales — present a risk of sourcing minerals from conflict zones. To mitigate potential human rights violations in the “conflict minerals” supply chain, Linde’s due diligence process conforms, in all material respects, with the framework set forth in the OECD Due Diligence Guidance for Responsible Supply Chains of Minerals from Conflict-Affected and High-Risk Areas (OECD Guidance) and the related supplements for gold, tin, tantalum and tungsten. Linde has adopted a Conflict Materials Supply Policy. This policy is available on Linde’s website at [http://www.praxair.com/our-company/corporateresponsibility/policies-and-position-statements/conflict-free-materials-policy](http://www.praxair.com/our-company/corporateresponsibility/policies-and-position-statements/conflict-free-materials-policy). Linde’s due diligence process includes monitoring the performance and continual improvement of its suppliers, and, where relevant, with their suppliers, and reporting to the U.S. Securities and Exchange Commission (SEC), on Linde’s website at: [https://lindeplc.gcs-web.com/static-files/c8728bc4-5d93-4d11-868e-1af5af84a1bf](https://lindeplc.gcs-web.com/static-files/c8728bc4-5d93-4d11-868e-1af5af84a1bf). Linde continues to work with these suppliers to ensure conformance with its policy and standards and with the law.

- Slavery in Supply Chain, UK: Linde has published a policy in conformance with The U.K. Modern Anti-Slavery Act of 2015 that reiterates its “opposition to the use of all forms of child, compulsory or forced labor at our operations and establishes the expectation that our business partners, suppliers and contractors will demonstrate similar intolerance for such practices.”

- Sex Trafficking on Truck Driving Routes: Linde works with major NGOs active in this area to train its network of employee and contractor truck drivers to help mitigate this crime. Voluntary action is ongoing in Brazil, the U.S. and Canada, and in 2019, was extended to Mexico.
Monitoring, Communication and Training
Regular reviews are conducted across all regions to confirm that processes are set up to ensure compliance with corporate policies, including human rights, compliance, safety and employment, and labor standards. Many of these themes fall under regular Linde management and are managed through those functions. See 404-1 for a description of training and other programs to reinforce compliance, safety and fair labor practices.

Human Rights Grievances
To Linde's knowledge, in 2019, there were no grievances related to human rights filed through formal organizational grievance mechanisms by individuals or groups, internal or external to the organization, and none through the integrity hotline.
### Coverage

**Employees - compliance and safety in offices and operations**
- CB (2): Adherence is required by employees; employees are trained annually and certify acknowledgment.
- Health, Safety and Environmental Policy (1): Through ongoing training of employees and contractors and regular auditing of health and safety management, the company ensures that the requirements for health protection and safety precautions are systematically and sustainably implemented in its processes.
- Compliance, HR, SHEQ and business management ensure compliance with uniformly high safety standards and initiate necessary guidelines, strategies and programs.

**Employees - Labor at operations and offices**
- Flexible working-time models (where possible)
- Market - rate compensation
- Wide-ranging measures to promote health and wellbeing at company sites (e.g., medical check-ups, training on stress management/lifestyle options, availability of fitness centers).

**Employees - non-discrimination at operations and offices**
- Diversity & Inclusion (DBI) initiatives to enhance respect and diversity, including worldwide training in the CB, DBI Principles and policies, unconscious bias.
- Corporate goal established to increase the proportion of women overall and in management; monthly review with business and functional leaders and corporate management; integrity Line (3).
- A range of avenues provided to report potential discrimination issues, including anonymously through the Integrity Line. All employees receive training in this.

**Contractors & Suppliers (5)**
- Where applicable, general procurement Terms & Conditions (T&Cs) (4) include Linde’s Supplier Code of Conduct (SCOC). By accepting applicable T&Cs, the supplier acknowledges Linde’s SCOC and is required to comply with the SCOC (e.g., through self-assessments).
- As part of the standard documentation for all new and renewing contractors, suppliers under applicable T&Cs must confirm conformance with the SCOC and with Linde’s CB or equivalent policies of their own.
- Contractors working at Linde plants are required to receive safety induction training.
- Linde is committed to maintaining long-term relationships with its suppliers where they contribute continued business value. Certain suppliers are audited on a planned schedule and on a broad scope. If deviations are discovered, Linde is committed to work with suppliers through remedies through capacity-building, education and training. Continued, material and/or willful non-conformance are grounds for contract termination.
- Linde may inspect or appoint a third-party inspector if it believes a supplier may be in material breach of the SCOC. Material breaches of Linde’s applicable T&Cs include, but are not limited to, incidents of forced or child labor, corruption and bribery, and failure to comply with the SCOC’s environmental protection requirements.
- Integrity Line (3) provides various ways of reporting potential issues for employees or third parties.

**Applicable Customers**
- Product safety management steers product stewardship.
- Worldwide tracking of relevant products and their application with respect to potential health and environmental impacts.
- Safety Data Sheets provided in >40 languages to inform customers about relevant safety measures.
- Integrity Line (3) provides various ways of reporting potential issues for employees or third parties.

**Communities where Linde invests and operates**
- Linde connects with community members by fostering activities that support community life and development, principally through Linde’s employee Community Engagement activity.
- A new SDG28 target is that the U.S. engineering organization conducts community relations outreach as part of pre-project planning.
- Integrity Line(3) provides various ways of reporting potential issues for employees or third parties.

### Policy & Due Diligence Process Action Plans

**Remediation Activity**
- No actions required as no issues occurred that would require measures beyond the already established mitigation plans.
- Remediation actions are integral to the Compliance and SHEQ programs.
- Linde businesses record worldwide incidents that occur. A root cause evaluation is performed, and a report provided to executive leadership and best practices shared. Multiple actions are taken to prevent repetition.

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5) Additional activity and reporting are provided for potential suppliers of materials from conflict zones. This is reported annually in Linde’s Form SD and in its Sustainable Development Report, both posted on Linde’s website at: www.linde.com.
415-1 Total value of political contributions by country and recipient/beneficiary

Linde does not make any political contributions as a company, neither to political parties nor candidates.

In the United States, employees have formed a political action committee (PAC). Under the umbrella of this independent registered committee, employees collect donations to politicians, political parties and associations and make their own decisions as to how the funds will be used. The PAC Executive Committee has broad employee representation and approves all political contributions made on behalf of the PAC. The Praxair PAC is governed by a series of internal policies and adheres to a strict set of by-laws.

Following the merger, the PAC for Linde GmbH (previously Linde AG) North America was terminated in 2019, and all activities are conducted through the Praxair PAC. In 2019 to the beginning of 2020, total PAC contributions totaled $13,000 to local, state and federal candidates for elected office representing both political parties. (Scope: United States)

Linde's contributions include: contributions to political campaigns (from the PAC); contributions to trade associations and tax-exempt organizations; and lobbying firms. In 2019, the total contribution was approximately $1.5 million, of which more than half was for trade associations and tax-exempt organizations; this amount includes the policy-related portion of membership dues.

There was no spending on ballot measures or referendums.

Praxair received a perfect score on the 2019 CPA Zicklin Index of Corporate Political Disclosure; see: https://www.sec.gov/comments/s7-23-19/s72319-6730876-207448.pdf. The CPA-Zicklin Index benchmarks the political disclosure and accountability policies and practices for election-related spending of leading U.S. public companies. Issued annually, it is produced by the Center for Political Accountability in conjunction with the Zicklin Center for Business Ethics Research at The Wharton School at the University of Pennsylvania. Praxair was one of nine companies listed as “Trendsetters in Political Disclosure & Accountability,” and was listed among 12 companies listed that do not spend on election-related issues.

Political contributions receipts and disbursements are reported in detail are disclosed publicly. This detail can be found on the U.S. Federal Elections Commission website at: https://www.fec.gov/data/committee/C00283440/ and at https://www.fec.gov/data/committee/C00471193/?cycle=2020.

Political contributions overview, more information on political activities, and a link to the U.S. Federal Elections Commission website for detailed reporting of data is provided on the legacy company website at: http://www.praxair.com/our-company/corporate-responsibility/government-affairs.

Public Advocacy Issues

The two largest public policy advocacy issues for 2018 were the implementation of U.S. federal tax reform, specifically administration of international provisions and the promotion of hydrogen as substitute for fossil fuels.

Trade Associations

In addition to reporting political contributions, Linde also reports on trade associations in which the company is a member. See 102-13. Two of the largest trade associations in which the company is a member include the ACC and CGA.

416-1 Assessment of the health and safety impacts of product and service categories

Minimizing Product Risk

Linde has a team of business, engineering, operations and safety professionals that examine the potential environmental, health and safety risks of every new product. The entire life cycle of the product — from raw material procurement through manufacturing, distribution, use and disposal — is reviewed.

Significant product or service categories are covered by and assessed for compliance with these procedures.

- Risk Review: Identify the potential risks in each phase of the product’s life cycle and the design features and management systems that minimize those risks.
- Product Design Safety: Consider how a product may be used or misused, and identify design features that could mitigate potential hazards.
- Procurement Specification and Control: Verify compliance with purchased material requirements and specifications.
- Manufacturing Control: Establish procedures and train personnel to ensure consistent product quality within product specifications.
- Distribution and Installation Control: Establish procedures and train personnel to ensure safe product deliveries, storage and customer application.
416-1

- Hazard Communication: Communicate information on the safe use and handling of each product in a timely manner through appropriate use of Safety Data Sheets (SDSs), product labelling, product use instructions, customer training and support.
- Product Disposal: Establish procedures to identify products that are no longer suitable for customer use and refurbish, replace or dispose of them in an environmentally safe manner.
- Incident Reporting and Investigation: Report, investigate and analyze incidents involving product misuse and disposal to learn more about product risks and to take corrective action.

**Product Responsibility**

<table>
<thead>
<tr>
<th>Stage</th>
<th>Health and safety impacts of products and services are assessed for improvement at all product life cycle stages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Development of product concept</td>
<td>Product Design Safety: Design reviews consider the ways that the product may be used or misused and include design features that mitigate associated hazards and help protect customer safety. Risk Review: During Linde's product risk review process, new products are evaluated to identify potential health, safety and environmental risks associated with each phase of the product's life, and to identify product design features and management systems that will adequately control those.</td>
</tr>
<tr>
<td>R&amp;D</td>
<td>R&amp;D evaluates commercialization projects, from ideation to launch, for environmental and health and safety impacts.</td>
</tr>
<tr>
<td>Certification</td>
<td>Linde's product stewardship conforms to the RCMS and is certified to applicable sections in the standard.</td>
</tr>
<tr>
<td>Manufacturing and production</td>
<td>Manufacturing control procedures are established, and personnel involved in the manufacturing process are trained to help ensure consistent product quality within product specifications.</td>
</tr>
<tr>
<td>Marketing and promotion</td>
<td>Procurement Specification and Control: The specifications for materials purchased from others are communicated to suppliers, and compliance with those requirements is adequately verified. Linde's program on Safety Leadership: Training, Resources, and Personal Commitment, provides additional details.</td>
</tr>
<tr>
<td>Storage distribution and supply</td>
<td>Distribution and Installation Control: Procedures are established, and personnel involved in product distribution and customer site equipment installation are trained to help ensure safe product deliveries, storage and customer application.</td>
</tr>
<tr>
<td>Use and Service</td>
<td>Incident Reporting and Investigation: Incidents involving misuse and disposal of products are reported, investigated and analyzed to learn more about product risks and, if necessary, provide a basis for corrective action. Hazard Communication: Information on the safe use and handling of each product, together with relevant health, safety and environmental protection information, is communicated to the customer in a timely manner through appropriate use of SDSs, product labeling, product use instructions, customer training and support upon request. Product Recall: Procedures are established to help ensure that products already in the marketplace can be recalled or upgraded, if necessary, when previously unidentified risks associated with those products are discovered.</td>
</tr>
<tr>
<td>Disposal, re-use or recycling</td>
<td>Product Disposal: When applicable, procedures are established to identify products or product components in inventory that are no longer suitable for customer use and, as appropriate, to refurbish, replace or dispose of them in an environmentally safe manner.</td>
</tr>
</tbody>
</table>

SOC (18): Product Responsibility

416-2 Incidents of non-compliance concerning the health and safety impacts of products and services

For 2019, the company is not aware of any reported substantial incidents of non-compliance with regulations or voluntary codes concerning the health and safety impacts of products and services during their life cycle.
417-1 Type of product and service information required by the organization's procedures for product and service information and labeling, and percentage of significant product and service categories subject to such information requirements

Linde's Responsible Care Policy commits the company's organizations to "work with customers, carriers, suppliers, distributors, employees, and contractors to foster the safe and secure use, transport, and disposal of chemicals and provide hazard and risk information that can be accessed and applied in their operations and products."

One-hundred percent of Linde's significant product and service categories have processes in place with requirements for product and service information and labelling.

- SDSs are prepared in accordance with either U.S. or European directives and are region- or country-specific. Activities required for compliance with the Global Harmonized System for Classification and Labeling (GHS) are being implemented.
- REACH and Chemicals of Concern: Linde is in compliance with the REACH regulations promulgated by the European Union, which require complete information on the chemical properties, hazard profile and uses of all products manufactured or imported into Europe. The company tracks the status of all substances that have to be registered through the European Chemicals Industry Association's REACH website.

TSCA and Prioritized Chemicals. Linde is subject to and in compliance with the Frank R. Lautenberg Chemical Safety for the 21st Century Act, which requires risk-based chemical assessments and increased public transparency for chemical information.

417-2 Total number of incidents of non-compliance with regulations and voluntary codes concerning product and service information and labeling, by type of outcomes

The company is aware of no incidents of non-compliance with regulations or voluntary codes concerning product and service information and labeling in 2019.

418-1 Substantiated complaints received concerning breaches of customer privacy

Linde's CBI has a section on data protection that defines how important it is for employees to follow the law and comply with company procedures, protocols and guidelines. This issue has been strongly prioritized in recent years because of new complexities being created by the proliferation of electronic communication. In light of the high priority, policies and training are provided. Linde's 2019 10-K, page 12, is publicly available and identifies the risk regarding information technology systems.

Dedicated cybersecurity teams conduct surveillance for potential threats and implement both procedural and technological controls to protect data and to ensure safe, uninterrupted operations. As far as the company can determine, there have not been substantiated complaints regarding breaches of customer privacy and losses of data for 2019.

419-1 Monetary value of significant fines for non-compliance with laws and regulations concerning the provision and use of products and services

The company is unaware of any significant penalties imposed in 2019 resulting from the use of its gas products.
Assurance 102-56

Letters from the auditor follow on pages 97–101.
August 4, 2020

To the Management of Linde plc.

Carbon Verification Service, LLC was engaged by Linde plc to provide assurance of its global 2019 Key Performance Indicators (KPI) and other social metrics. 2019 was the tenth consecutive year that Carbon Verification Service was retained by the company to verify its KPIs. (Carbon Verification Service was retained eight years by Praxair prior to the merger). Upon being retained, Carbon Verification Service conducted a conflict of interest review to ensure that its review would be free of bias and would be done on an independent basis. Carbon Verification Service provides only verification and auditing services to its clients, including Linde plc, to avoid conflict of interest concerns. Carbon Verification Service is not owned or operated by any other entity.

The objective of the verification was to provide limited assurance of the reported KPI values and to assess the accuracy, completeness, relevance, consistency and transparency of Linde plc’s information and assertions. Carbon Verification Service assessed conformance of Linde plc’s GHG emission inventory with The Greenhouse Gas Protocol.

The verification protocol employed for verification of Linde plc’s 2019 GHG emissions was **ISO 14064-3 (2006): Specification with guidance for the validation and verification of greenhouse gas assertions**, and is consistent with the requirements for ISAE 3000. Consensus protocols for the verification of the KPI metrics, other than GHG emissions, do not currently exist. Carbon Verification Service utilized the same verification principles prescribed by ISAE 3000 to guide the verification of this data.

Carbon Verification Service, LLC reviewed selected quantitative KPIs. The verification was based on desk audits of data from 32 sites that were, as in past years, selected so as to be representative of Linde plc’s global geographies and businesses. In addition, two virtual site visits were conducted at an air separation unit in Duisburg, Germany and hydrogen plant in Toledo, Ohio, USA. (The site visits were by necessity virtual in nature due to coronavirus pandemic safety precautions). Site selection criteria also included prior usage of energy and water. We did not review all information and supporting documentation associated with the KPIs for all of Linde plc’s global locations and facilities.

Linde plc management is responsible for the reported KPIs and for the process of assembling the data upon which the reported KPI values are based.

Based upon the verification work performed from April through July 2020, there is no evidence that Linde plc’s KPI data assertions, which appear in the table below, are not materially correct and are not a fair representation of data and information and have not been prepared in accordance with accepted standards and practice.

For Carbon Verification Service, LLC

James J. Groome
President

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Linde plc - Verification Letter, 2019 data
LINDE PLC’S ASSERTIONS

Linde plc reported the following eKPI values:

<table>
<thead>
<tr>
<th>Metric</th>
<th>Linde plc 2019 Value</th>
<th>Units of Measure</th>
</tr>
</thead>
<tbody>
<tr>
<td>GHG Emissions Scope 1</td>
<td>16,461,000</td>
<td>Metric Tons CO₂e</td>
</tr>
<tr>
<td>GHG Emissions Scope 2</td>
<td>21,012,000</td>
<td>Metric Tons CO₂e</td>
</tr>
<tr>
<td>Proportion of reported Scope 1 and 2 emissions verified</td>
<td>100</td>
<td>%</td>
</tr>
<tr>
<td>Year-over-Year Change - Scope 2 Emissions</td>
<td>-0.38</td>
<td>%</td>
</tr>
<tr>
<td>GHG Emissions Scope 3 - Contractor Driving</td>
<td>577,000</td>
<td>Metric Tons CO₂e</td>
</tr>
<tr>
<td>Total Electricity Consumption</td>
<td>41,879,000</td>
<td>MWh</td>
</tr>
<tr>
<td>Active Renewable Electricity Consumption*</td>
<td>2,431,000</td>
<td>MWh</td>
</tr>
<tr>
<td>Passive Renewable Electricity Consumption*</td>
<td>8,933,000</td>
<td>MWh</td>
</tr>
<tr>
<td>Other Low Carbon Electricity Consumption (nuclear)*</td>
<td>4,146,000</td>
<td>MWh</td>
</tr>
<tr>
<td>Fossil fuel-based Electricity Consumption*</td>
<td>26,369,000</td>
<td>MWh</td>
</tr>
<tr>
<td>Steam</td>
<td>2,238,000</td>
<td>MWh</td>
</tr>
<tr>
<td>Non-renewable Fuel Consumption</td>
<td>21,246,000</td>
<td>MWh</td>
</tr>
<tr>
<td>NOₓ Emissions</td>
<td>8,750</td>
<td>Metric Tons</td>
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<tr>
<td>SOₓ Emissions</td>
<td>730</td>
<td>Metric Tons</td>
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<tr>
<td>VOCs</td>
<td>1,297</td>
<td>Metric Tons</td>
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<tr>
<td>Total (Solid + Hazardous) Waste Not Landfilled from Zero Waste Program</td>
<td>100,000,000</td>
<td>Lbs.</td>
</tr>
<tr>
<td>Total municipal water supplies</td>
<td>125,955,000</td>
<td>Cubic meters</td>
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<tr>
<td>Fresh surface water withdrawal</td>
<td>383,274,000</td>
<td>Cubic meters</td>
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<tr>
<td>Fresh ground water</td>
<td>10,728,000</td>
<td>Cubic meters</td>
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<tr>
<td>Once-through cooling water returned to the source of extraction at similar or higher quality</td>
<td>469,366,000</td>
<td>Cubic meters</td>
</tr>
<tr>
<td>Once-through cooling water from ground or surface source only</td>
<td>357,777,000</td>
<td>Cubic meters</td>
</tr>
<tr>
<td>Total net fresh water consumption</td>
<td>162,179,000</td>
<td>Cubic meters</td>
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<td>Chemical Oxygen Demand</td>
<td>2,220</td>
<td>Metric Tons</td>
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<tr>
<td>Employee Lost Time Injury Frequency Rate</td>
<td>0.210</td>
<td>Lost time injuries per 200,000 hours worked</td>
</tr>
<tr>
<td>Employee Lost Time Injury Frequency Rate</td>
<td>1.048</td>
<td>Lost time injuries per 1,000,000 hours worked</td>
</tr>
<tr>
<td>Occupational Illness Frequency Rate</td>
<td>0.011</td>
<td>Occupational Illness Cases per 200,000 hours worked</td>
</tr>
<tr>
<td>Occupational Illness Frequency Rate</td>
<td>0.057</td>
<td>Occupational Illness Cases per 1,000,000 hours worked</td>
</tr>
<tr>
<td>Contractor Lost Time Injury Frequency Rate (Construction Contractor Groups)</td>
<td>0.09</td>
<td>Lost time injuries per 200,000 hours worked</td>
</tr>
<tr>
<td>Contractor Lost Time Injury Frequency Rate (Construction Contractor Groups)</td>
<td>0.45</td>
<td>Lost time injuries per 1,000,000 hours worked</td>
</tr>
<tr>
<td>Tier 1 Process Safety Events</td>
<td>0.037</td>
<td>Number of Events per 200,000 hours worked</td>
</tr>
<tr>
<td>Tier 1 Process Safety Events</td>
<td>0.186</td>
<td>Number of Events per 1,000,000 hours worked</td>
</tr>
<tr>
<td>Metric</td>
<td>Linde plc 2019 Value</td>
<td>Units of Measure</td>
</tr>
<tr>
<td>----------------------------------------------------------------------</td>
<td>----------------------</td>
<td>-----------------</td>
</tr>
<tr>
<td>Community Engagement: cash raised or donated by employees and facilities.</td>
<td>400,000 USD</td>
<td></td>
</tr>
<tr>
<td>Community Engagement: cash raised or donated by employees and facilities, and including in kind donations.</td>
<td>800,000 USD</td>
<td></td>
</tr>
</tbody>
</table>

*These eKPI metrics were not fully verified; they are calculated from the verified total electricity consumption value.
July 22, 2020

To the Management of Linde plc.

In 2020, Linde re-calculated certain of its global 2018 Key Performance Indicators (KPI) metrics to align with Dow Jones Sustainability Index reporting requirements. Linde plc engaged Carbon Verification Service, LLC to provide assurance of the re-calculated 2018 KPI metrics.

Upon being retained, Carbon Verification Service conducted a conflict of interest review to ensure that its review would be free of bias and would be done on an independent basis. Carbon Verification Service provides only verification and auditing services to its clients, including Linde plc, to avoid conflict of interest concerns. Carbon Verification Service is not owned or operated by any other entity.

The objective of the verification was to provide limited assurance of the reported KPI values and to assess the accuracy, completeness, relevance, consistency and transparency of Linde plc’s information and assertions. Carbon Verification Service assessed conformance of Linde plc’s GHG emission inventory with The Greenhouse Gas Protocol.

The verification protocol employed for verification of Linde plc’s 2018 GHG emissions was ISO 14064-3 (2006): Specification with guidance for the validation and verification of greenhouse gas assertions, and is consistent with the requirements for ISAE 3000. Consensus protocols for the verification of the KPI metrics, other than GHG emissions, do not currently exist. Carbon Verification Service utilized the same verification principles prescribed by ISAE 3000 to guide the verification of this data.

Carbon Verification Service, LLC reviewed selected quantitative KPIs. The verification was based on desk audits of data from 9 sites that were, as in past years, selected so as to be representative of Linde plc’s global geographies and businesses. Site selection criteria also included prior usage of energy and water. We did not review all information and supporting documentation associated with the KPIs for all of Linde plc’s global locations and facilities.

Linde plc management is responsible for the reported KPIs and for the process of assembling the data upon which the reported KPI values are based.

Based upon the verification work performed in July 2020, there is no evidence that Linde plc’s KPI data assertions, which appear in the table below, are not materially correct and are not a fair representation of data and information and have not been prepared in accordance with accepted standards and practice.

For Carbon Verification Service, LLC

James J. Groome
President
LINDE PLC’S ASSERTIONS
Linde plc reported the following eKPI values:

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<thead>
<tr>
<th>Metric</th>
<th>Linde plc 2018 Value</th>
<th>Units of Measure</th>
</tr>
</thead>
<tbody>
<tr>
<td>GHG Emissions Scope 1</td>
<td>16,872,000</td>
<td>Metric Tons CO2e</td>
</tr>
<tr>
<td>GHG Emissions Scope 2</td>
<td>21,093,000</td>
<td>Metric Tons CO2e</td>
</tr>
<tr>
<td>Proportion of reported Scope 1 and 2 emissions verified</td>
<td>100</td>
<td>%</td>
</tr>
<tr>
<td>Total Electricity Consumption</td>
<td>41,549,000</td>
<td>MWh</td>
</tr>
<tr>
<td>Non-renewable Electricity Consumption</td>
<td>30,447,000</td>
<td>MWh</td>
</tr>
<tr>
<td>Low Carbon Electricity Consumption (including active and passively procured renewable and low carbon)</td>
<td>15,193,000</td>
<td>MWh</td>
</tr>
<tr>
<td>Renewable Electricity Consumption (active + passive)</td>
<td>11,103,000</td>
<td>MWh</td>
</tr>
<tr>
<td>Active Portion of Renewable Electricity Consumption</td>
<td>2,507,000</td>
<td>MWh</td>
</tr>
<tr>
<td>Low carbon electricity (nuclear)</td>
<td>4,090,000</td>
<td>MWh</td>
</tr>
<tr>
<td>Steam</td>
<td>2,203,000</td>
<td>MWh</td>
</tr>
</tbody>
</table>
The GRI Content Index 102-54, 102-55

This report has been prepared in Accordance with the GRI Standards: Core option.

For the GRI Content Index Service, GRI Services reviewed that the GRI content index is clearly presented and the references for all disclosures included align with the appropriate sections in the body of the report.
<table>
<thead>
<tr>
<th>GRI Standard</th>
<th>Disclosure</th>
<th>Direct Answer</th>
<th>Omission</th>
</tr>
</thead>
<tbody>
<tr>
<td>GRI 101: Foundation 2016</td>
<td><strong>General Disclosures</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GRI 102: General Disclosures 2016</td>
<td><strong>Organizational profile</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>102-1 Name of the organization</td>
<td>Linde PLC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>102-3 Location of headquarters</td>
<td>United Kingdom (location of principal offices)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>102-5 Ownership and legal form</td>
<td>Publicly traded</td>
<td></td>
<td></td>
</tr>
<tr>
<td>102-9 Supply chain</td>
<td>See Sustainable Development Report, page 10, as well as Section 204-1, pages 52–53.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Page</td>
<td>Section</td>
<td>Description</td>
<td>See Sustainable Development Report</td>
</tr>
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<td>------------------------------------</td>
</tr>
<tr>
<td>102-44</td>
<td>Key topics and concerns raised</td>
<td>See Sustainable Development Report, pages 31–33.</td>
<td></td>
</tr>
</tbody>
</table>

**Reporting practice**
<p>| 102-50 Reporting period | January 1, 2019 to December 31, 2019 |
| 102-51 Date of most recent report | 2019 (2018 data year) |
| 102-52 Reporting cycle | annual |
| 102-53 Contact point for questions regarding the report | Dr. Riva Krut, VP and Chief Sustainability Officer, Linde Email: <a href="mailto:Riva.krut@linde.com">Riva.krut@linde.com</a> or <a href="mailto:sustainable.development@linde.com">sustainable.development@linde.com</a> Telephone: 203-837-2337 |
| 102-54 Claims of reporting in accordance with the GRI Standards | This report has been prepared in Accordance with the GRI Standards: Core option. Please see GRI Content Index, on page 102, of the Sustainable Development Report. |
| 102-55 GRI content index | Please see GRI Content Index, starting at page 102, of the Sustainable Development Report. |</p>
<table>
<thead>
<tr>
<th>GRI Standard</th>
<th>Disclosure</th>
<th>Page number(s) and/or URL(s)</th>
<th>Omission Part Omitted /Reason / Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Material Topics</strong></td>
<td></td>
<td></td>
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</tr>
<tr>
<td><strong>GRI 200 Economic Standard Series</strong></td>
<td></td>
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<tr>
<td>Economic Performance</td>
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<tr>
<td></td>
<td></td>
<td>103-2 The management approach and its components</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>See Sustainable Value, Report, pages 41–42.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>103-3 Evaluation of the management approach</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>See Sustainable Value, Report, pages 41–42.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>201-2 Financial implications and other risks and opportunities due to climate change</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>201-3 Defined benefit plan obligations and other retirement plans</td>
<td></td>
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<td>201-4 Financial assistance received from government</td>
<td></td>
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<td>Market Presence</td>
<td></td>
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<tr>
<td></td>
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<td>103-2 The management approach and its components</td>
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<td></td>
<td>See Sustainable Value, Report, pages 41–42.</td>
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<tr>
<td></td>
<td></td>
<td>202-2 Proportion of senior management hired from the local community</td>
<td></td>
</tr>
<tr>
<td>Indirect Economic Impacts</td>
<td></td>
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</tr>
<tr>
<td></td>
<td></td>
<td>103-2 The management approach and its components</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>See Sustainable Value, Report, pages 41–42.</td>
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<td></td>
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<td>See Sustainable Value, Report, pages 41–42.</td>
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</tbody>
</table>

**Procurement Practices**

<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>103-2 The management approach and its components</td>
<td>See Sustainable Value, Report, pages 41–42.</td>
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</tr>
<tr>
<td>103-3 Evaluation of the management approach</td>
<td>See Sustainable Value, Report, pages 41–42.</td>
<td></td>
</tr>
</tbody>
</table>

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**Anti-corruption**

<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>103-2 The management approach and its components</td>
<td>See Sustainable Value, Report, pages 41–42.</td>
<td></td>
</tr>
<tr>
<td>103-3 Evaluation of the management approach</td>
<td>See Sustainable Value, Report, pages 41–42.</td>
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<table>
<thead>
<tr>
<th></th>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>205-3 Confirmed incidents of corruption and actions taken</td>
<td>See Sustainable Development Report, page 54.</td>
<td></td>
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</table>

**Anti-competitive Behavior**

<table>
<thead>
<tr>
<th>GRI 103: Management Approach 2016</th>
<th>103-1 Explanation of the material topic and its Boundary</th>
<th>See Sustainable Value, Report, pages 41–42.</th>
</tr>
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<tbody>
<tr>
<td>103-2 The management approach and its components</td>
<td>See Sustainable Value, Report, pages 41–42.</td>
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</tr>
<tr>
<td>103-3 Evaluation of the management approach</td>
<td>See Sustainable Value, Report, pages 41–42.</td>
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<table>
<thead>
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<tbody>
<tr>
<td>GRI 300 Environmental Standards Series</td>
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<tr>
<td><strong>Materials</strong></td>
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<tr>
<td><strong>GRI 103: Management Approach 2016</strong></td>
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<tr>
<td>103-1 Explanation of the material topic and its boundary</td>
<td>See Sustainable Development Report, pages 43–44.</td>
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<tr>
<td><strong>GRI 301: Materials 2016</strong></td>
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<tr>
<td>301-2 Recycled input materials used</td>
<td>See Sustainable Development Report, page 56.</td>
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<tr>
<td><strong>Energy</strong></td>
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<tr>
<td><strong>GRI 103: Management Approach 2016</strong></td>
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<tr>
<td>103-1 Explanation of the material topic and its boundary</td>
<td>See Sustainable Development Report, pages 43–44.</td>
<td></td>
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<tr>
<td><strong>GRI 302: Energy 2016</strong></td>
<td></td>
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<tr>
<td>302-1 Energy consumption within the organization</td>
<td>See Sustainable Development Report, pages 56–58.</td>
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<tr>
<td><strong>Water</strong></td>
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<tr>
<td><strong>GRI 103: Management Approach 2016</strong></td>
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<tr>
<td>103-1 Explanation of the material topic and its boundary</td>
<td>See Sustainable Development Report, pages 43–44.</td>
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<tr>
<td><strong>GRI 303: Water 2016</strong></td>
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### Emissions

**GRI 103: Management Approach 2016**

<table>
<thead>
<tr>
<th>Topic</th>
<th>Pages</th>
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</thead>
<tbody>
<tr>
<td>103-1 Explanation of the material topic and its boundary</td>
<td>See Sustainable Development Report, pages 43–44.</td>
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</table>

**GRI 305: Emissions 2016**

<table>
<thead>
<tr>
<th>Topic</th>
<th>Pages</th>
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</thead>
<tbody>
<tr>
<td>305-1 Direct (Scope 1) GHG emissions</td>
<td>See Sustainable Development Report, pages 59–60.</td>
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<tr>
<td>305-3 Other indirect (Scope 3) GHG emissions</td>
<td>See Sustainable Development Report, pages 61–63.</td>
</tr>
<tr>
<td>305-5 Reduction of greenhouse gas (GHG) emissions</td>
<td>See Sustainable Development Report, page 64.</td>
</tr>
<tr>
<td>305-7 NOX, SOX, and other significant air emissions</td>
<td>See Sustainable Development Report, page 65.</td>
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</tbody>
</table>

### Effluents and Waste

**GRI 103: Management Approach 2016**

<table>
<thead>
<tr>
<th>Topic</th>
<th>Pages</th>
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</thead>
<tbody>
<tr>
<td>103-1 Explanation of the material topic and its boundary</td>
<td>See Sustainable Development Report, pages 43–44.</td>
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**GRI 306: Effluents and Waste 2016**

<table>
<thead>
<tr>
<th>Topic</th>
<th>Pages</th>
</tr>
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</table>
Water bodies affected by water discharges and/or runoff

Environmental Compliance

GRI 103: Management Approach 2016

103-1 Explanation of the material topic and its boundary
See Sustainable Development Report, pages 43–44.

103-2 The management approach and its components
See Sustainable Development Report, pages 43–44.

103-3 Evaluation of the management approach
See Sustainable Development Report, pages 43–44.

GRI 307: Environmental Compliance 2016

307-1 Non-compliance with environmental laws and regulations

Supplier Environmental Assessment

GRI 103: Management Approach 2016

103-1 Explanation of the material topic and its boundary
See Sustainable Development Report, pages 43–44.

103-2 The management approach and its components
See Sustainable Development Report, pages 43–44.

103-3 Evaluation of the management approach
See Sustainable Development Report, pages 43–44.

GRI 308: Supplier Environmental Assessment 2016

308-1 New suppliers that were screened using environmental criteria

308-2 Negative environmental impacts in the supply chain and actions taken

GRI 400 Social Standards Series

Employment

GRI 103: Management Approach 2016

103-1 Explanation of the material topic and its boundary

103-2 The management approach and its components

103-3 Evaluation of the management approach

GRI 401: Employment 2016

401-1 New employee hires and employee turnover

Partial omission. Rates of new hires are not disclosed. Also, voluntary turnover is disclosed, but not reported otherwise or by age group or by minority group. Reason: This information is subject to specific confidentiality constraints. Explanation: The information is considered business confidential.

Labor/Management Relations

103-1 Explanation of the material topic and its boundary
|-----------------------------------|-------------------------------------------------|--------------------------------------------------|

**Occupational Health and Safety**

<table>
<thead>
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<tbody>
<tr>
<td>GRI 403: Occupational Health and Safety 2016</td>
<td>403-2 Types of injury and rates of injury, occupational diseases, lost days, and absenteeism, and number of work-related fatalities by region and by gender</td>
<td>See Sustainable Development Report, pages 70–72.</td>
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**Training and Education**

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<tr>
<td>GRI 404: Training and Education 2016</td>
<td>404-2 Programs for upgrading employee skills and transition assistance programs</td>
<td>See Sustainable Development Report, page 76.</td>
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<td></td>
<td>404-3 Percentage of employees receiving regular performance and career development reviews</td>
<td>See Sustainable Development Report, page 76.</td>
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**Diversity and Equal Opportunity**

|-----------------------------------|-------------------------------------------------|--------------------------------------------------|

Partial omission. The following is not disclosed: Percentage of employees by minority group. Reason: This information is subject to specific
<table>
<thead>
<tr>
<th>GRI Indicator</th>
<th>Description</th>
<th>Source</th>
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<tbody>
<tr>
<td></td>
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<td>Partial omission. The following are not disclosed: The percentage of discrimination incidents and their corrective actions is not completely reported, separately within the total number of hotline reports. Reason: This information is subject to specific confidentiality constraints. Explanation: The information is considered business confidential.</td>
</tr>
</tbody>
</table>

### Non-discrimination

| --- | --- | --- |

### Freedom of Association and Collective Bargaining

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### Child Labor

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### Forced or Compulsory Labor

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<td>GRI 412: Human Rights Assessment 2016</td>
<td>412-1 Operations that have been subject to human rights reviews or impact assessments</td>
<td>See Sustainable Development Report, page 80.</td>
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<tr>
<td>Local Communities</td>
<td>412-3 Significant investment agreements and contracts that include human rights clauses or that underwent human rights screening</td>
<td>See Sustainable Development Report, page 80.</td>
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<thead>
<tr>
<th>GRI 413: Local Communities 2016</th>
<th>413-1 Operations with local community engagement, impact assessments, and development programs</th>
<th>See Sustainable Development Report, pages 80–81.</th>
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<table>
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<tr>
<th>GRI 414: Supplier Social Assessment 2016</th>
<th>414-1 New suppliers that were screened using social criteria</th>
<th>See Sustainable Development Report, pages 88–89.</th>
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<tbody>
<tr>
<td></td>
<td>414-2 Negative social impacts in the supply chain and actions taken</td>
<td>See Sustainable Development Report, pages 89 and 92.</td>
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Customer Health and Safety

GRI 103: Management Approach 2016


GRI 416: Customer Health and Safety 2016
416-1 Assessment of the health and safety impacts of product and service categories See Sustainable Development Report, pages 93–94.

416-2 Incidents of non-compliance concerning the health and safety impacts of products and services See Sustainable Development Report, page 94.

Marketing and Labeling

GRI 103: Management Approach 2016


GRI 417: Marketing and Labeling 2016
417-1 Requirements for product and service information and labeling See Sustainable Development Report, page 95.


Customer Privacy

GRI 103: Management Approach 2016


GRI 418: Customer Privacy 2016

Socioeconomic Compliance

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<tbody>
<tr>
<td>GRI 419: Socioeconomic Compliance 2016</td>
<td>419-1 Non-compliance with laws and regulations in the social and economic area</td>
<td>See Sustainable Development Report, page 95.</td>
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