Sustainable Financing Framework

May 2021

Air Liquide
creative oxygen

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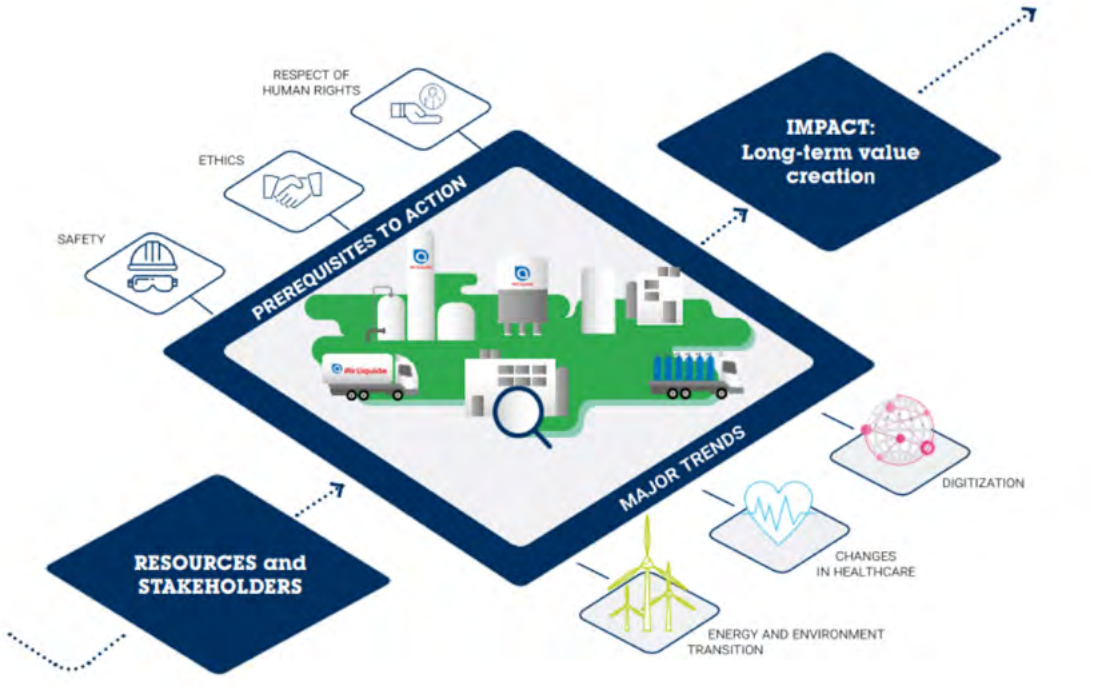
1 | The Air Liquide Group

Air Liquide, a world leader in gases, technologies and services for industry and health, has been building its leadership since 1902. Air Liquide's ambition is to lead the industry, to deliver long term performance and to contribute to sustainability: supporting its clients and patients and addressing the urgency of climate change and societal transformation.

Being a leader in our industry

We aim to outperform our market growth by excelling in customer experience, while keeping, safety and reliability of our products as a priority. Being a leader also means adopting a pioneering role and constantly innovating, in particular in the three main fields of energy transition, transformation in healthcare, and digital. It contributes to operational excellence and drives the development of new technologies, new expertise and opens new markets, in particular that of hydrogen energy.

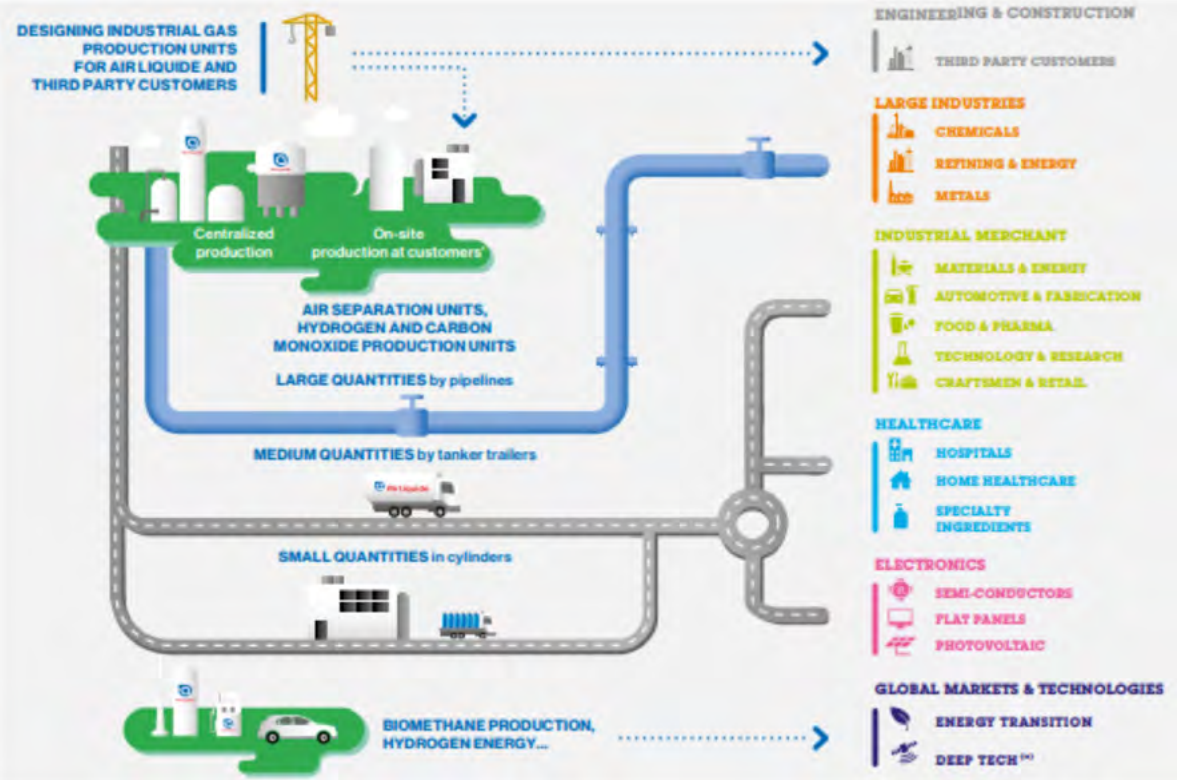


The Group classifies its activities as follows: Gas & Services, Engineering & Construction and Global Markets & Technologies. All serve one single business, that of industrial gases.

A. GAS & SERVICES

The Gas & Services business includes four World Business Lines to better support changes and meet the needs of the various markets: Large Industries, Industrial Merchant, Healthcare, and Electronics.

The four business lines comprising the Gas & Services activity are closely tied by a strong industrial philosophy where proximity is key. Air Liquide gas production units are located throughout the world and can supply many types of customers and industries with the relevant volumes and services required.



Large Industries

Large Industries supplies industrial gases by operating large and dedicated production units. It serves customers in the metals, chemicals, refining and energy sectors where large gas volumes call for a dedicated plant or the development of a pipeline network. Large Industries also supplies the Group's other business lines with gases which are then packaged and delivered to their respective customers.

Within the Large Industries Business, hydrogen generates currently more than 2 billion euros in sales as a result of business relationships, technological transformations and strategic positioning established over about fifty years. On this solid footing, Air Liquide is actively pursuing the development of new applications for hydrogen, notably low-carbon hydrogen for industry and mobility. In these new markets, the Group's ambition is to be active in the whole value chain, which includes the supply of low-carbon energies and renewable hydrogen, the production of hydrogen, packaging by compression and liquefaction, delivery by truck and pipelines along with storage and distribution to the end customers. To this end, the Group is investing in new technologies to produce and distribute low-carbon and renewable hydrogen at large scale competitively, reliably and safely, such as electrolysis, capture and storage of CO_2 and hydrogen liquefaction.

Industrial Merchant

Industrial Merchant supplies a wide range of gases, application equipment and associated services. It serves industries and professionals that require smaller quantities than Large Industries customers. Gas can be distributed in bulk, in liquid form, or in cylinders, in gaseous form, for smaller quantities. Finally, small production units can be installed locally for customers with larger gas needs, or in remote areas.

Healthcare

Healthcare produces and distributes medical gases for hospitals (more than 15,000) and provides support and healthcare services for the care of patients at home (~1,800,000). As a major world player in home healthcare, an expert in chronic disease follow up at home, and supplier of medical gases to hospitals, we strive to build an efficient and virtuous healthcare system for all. By anticipating and supporting the new needs healthcare professionals have and patients' new lifestyles. By combining our therapeutic, digital, organisational and human expertise. By proposing a new approach to healthcare that is interdisciplinary, collective and connected.

Faced with a health crisis, the Healthcare teams are ready to cope with the increase in requirements for medical oxygen, provide equipment such as respirators for hospitals, ensure stabilized patients can return home and guarantee chronic patients are cared for at all times. Air Liquide has a unique position in that it is present along the continuum of care and connected to all stakeholders in the healthcare ecosystem (patients, healthcare professionals, hospitals, health authorities, payers) for the treatment of acute diseases (with medical gases in hospitals), the treatment of chronic diseases (with Home Healthcare). Underlying trends such as aging populations and the escalating need for care due to the increase in chronic diseases, as well as the continuing expansion of healthcare systems in developing economies, makes the Healthcare activity a solid growth driver for the Group.

Electronics

Electronics supplies gases, materials (complex molecules) used in manufacturing processes, and services mainly used for the production of semi-conductors, but also for flat screens and photovoltaic panels.

B. ENGINEERING & CONSTRUCTION

The Engineering & Construction business provides a competitive edge, to offer turnkey solutions to customers and to continuously improve our industrial processes and reduce the cost of our industrial assets.

C. GLOBAL MARKETS & TECHNOLOGIES

The Global Markets & Technologies World Business Unit relies on proprietary disruptive technologies to open up new deep tech markets and develop new business models within the field of energy transition, maritime logistics with a circular economy approach.

2 Air Liquide Sustainability Strategy

2.1 ACT for a sustainable future

In line with its growth trajectory, and with performance and sustainability at the core of its strategy, Air Liquide published new ESG objectives on 23rd March 2021 as part of '**ACT for a Sustainable future' program.**

Air Liquide's commitment is to make a meaningful difference, with a plan based on three dimensions:

A. the Abatement of CO_2 emissions for a **LOW-CARBON society**,

B. Care for patients and

C. Trust as the base to **engage** with **employees**, and to build **a best in class governance.**

A. Abatement of CO_2 emissions

Air Liquide is a civic-minded company driven by the aim of having a positive long-lasting impact and is deeply committed to the climate and the energy transition. The Group fully believe in the major role that its decarbonization solutions – and in particular hydrogen – will play in the development of a low-carbon society

To address climate change and support the 2015 Paris Agreement, Air Liquide is **targeting Carbon Neutrality by 2050 with the following milestones in 2025 and 2035**:

- Reduce by 30% carbon intensity ($kgCO_2$/€ Ebitda) in 2025, compared to 2015
- Start reducing absolute CO_2 emissions around 2025
- Reach a 33% decrease in Scope 1 & 2 CO_2 emissions by 2035 compared to 2020

To decarbonize its assets, Air Liquide will leverage on capturing CO_2, accelerating low-carbon and renewable hydrogen production through electrolysis or by using renewable feedstock such as bio-methane. With regards to indirect emissions, Air Liquide focuses on increasing energy efficiency of its assets and sourcing low carbon, especially renewable electricity.

Air Liquide also deploys a **broad range of low-carbon solutions** to help our clients decrease their CO_2 footprint. This includes low-carbon air gases offering, accompanying customers in industrial process transformation, recognized carbon capture expertise, as well as an asset takeover strategy with an objective to decarbonize them.

This plan also includes an **acceleration in HYDROGEN development**, to at least triple our turnover in order to reach more than 6 billion euros by 2035. We will reach that goal by investing approximately 8 billion euros in the low-carbon hydrogen supply chain and by contributing to the development of a low-carbon hydrogen ecosystem for the industry and clean mobility. By 2030, Air Liquide aims at bringing its total electrolysis capacity to 3 GW. By 2035 more than 50% of its hydrogen sales will be renewable and low-carbon

B. Care for patients

As a major global player in healthcare, Air Liquide wants to go one step further and to reinforce its societal contribution by **improving the quality of life of chronic patients at home** in mature economies and by **facilitating access to medical oxygen** for rural communities in low- and middle-income countries.

This translates into:

- On the one hand, **promoting customized care pathways for patients**, leveraging digital and human support
- On the other hand, **equipping primary care facilities in villages with oxygen, and bringing Air Liquide expertise in coalitions to support local communities, expanding partnerships with NGOs.**

C. Trust as the base to engage with our employees and to build a best-in-class governance

With safety as a prerequisite for action, Air Liquide engages with its employees to provide a common basis of **care coverage for 100% of its employees**, as well as p**romote inclusion and diversity** with a target to reach 35% of women among Managers & Professionals by 2025. **Air Liquide thus continues to create a safe, inclusive and engaging workplace**. Moreover, Air Liquide provides employees with the opportunity to devote time to a mission or a local project in line with the Group's ESG objectives.

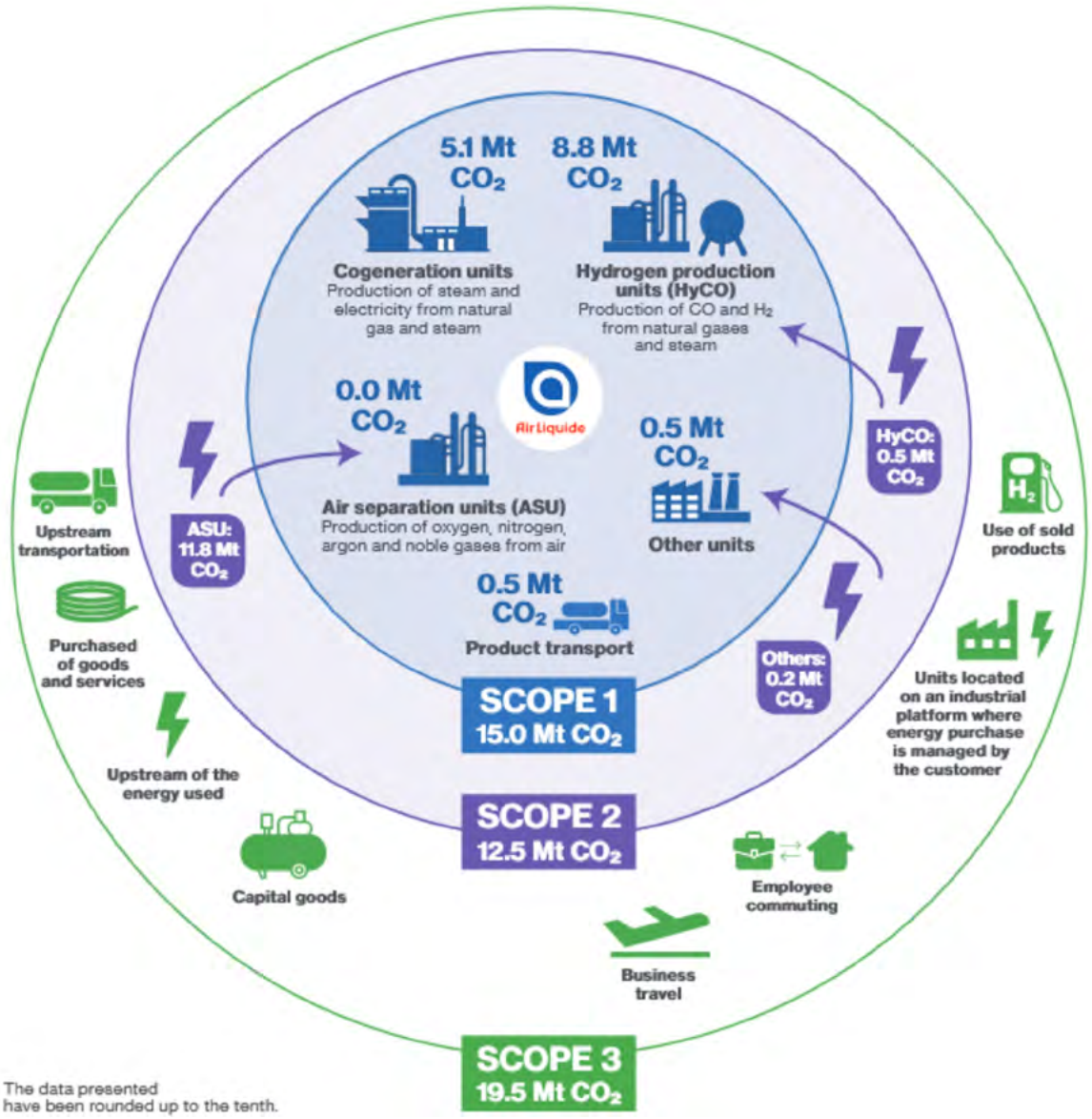
More than ever, a sustainable future means for Air Liquide working with all its stakeholders and sharing responsibility in a spirit of openness, fairness and accountability. **Through transparency and continuous dialogue, Air Liquide commits to strengthening relations with its stakeholders**: customers and patients, shareholders, suppliers, local communities and the public sphere.

2.2 Innovate for the Energy transition

Finally, in a world where technological progress is accelerating, in particular in the digital field, the Group supports the expansion of the electronics industry and of high tech sectors such as deep cryogenics, space, and quantum technology. Air Liquide firmly believes that its technologies and ability to innovate will make a difference in the transformation that is currently underway.

As such Air Liquide is investing in innovation to support energy transition which focus on technologies to reduce the Group's CO_2 emissions as well as those of its customers, offering cleaner solutions: improvements in the energy efficiency of production units, use of oxygen and hydrogen molecules to reduce its customers' carbon footprint, carbon capture and storage of CO_2 in partnership programs within certain ecosystems, bio methane and hydrogen energy developments.

Air Liquide is constantly innovating to develop new processes enabling low-carbon production of gases such as Oxygen or Hydrogen.



2.3 | Air Liquide GHG Emissions

Air Liquide has an extended disclosure of its carbon footprint, with 2020 Scope 1 and 2 emissions 27.5 $MtCO_2$ [1]. Air Liquide also discloses most of its Scope 3 emissions.

We are not only reducing our carbon footprint but helping industrial customers do the same. Drawing on our technological expertise and capacity for innovation, we're inventing cleaner, more sustainable solutions to reduce their emissions. For example, the Group is working closely with the steel industry to reduce CO_2 emissions by using hydrogen on a large scale during steel manufacturing. We are also developing new technologies to capture and recycle carbon emissions from the steelmaking process.

[1] *in the case when Scope 2 emissions are reported under the "Location-Based" approach*

3 Sustainable Financing Framework

Air Liquide has established this Sustainable Financing Framework (the "Framework") to cover the following instruments to finance sustainable projects intended to have a clear benefit to environment and society:

- Green, Social and/or Sustainability Bonds including public and private format (the "Bonds")
- Green, Social and/or Sustainability Loans
- Any other instrument aiming at financing Eligible Projects as defined in the "Use of Proceeds" section

This Framework is aligned with the Green Loan Principles 2020 and the Social Loan Principles 2021 overseen by the Loan Market Association (LMA) and with the Green Bond Principles 2018 (GBP), the Social Bond Principles 2020 (SBP) and the Sustainability Bond Guidelines 2018 (SBG) overseen by the International Capital Markets Association (ICMA).

3.1 Use of Proceeds

The Use of Proceeds of any Green, Social and Sustainability financing under this Framework will be subject to the following eligibility criteria, to be applied to new or existing projects. The financing of such projects is expected to create substantial environmental or social benefits by significantly reducing GHG emissions or improving the living conditions of target populations.

Green Eligible Projects and Social Eligible Projects are "Eligible Projects" and constitute the Eligible Project Portfolio.

Going forward, Air Liquide may extend the categories of Eligible Projects. Any changes made will be documented in an updated Framework.

A. Green Eligible Projects

Green Eligible Projects will primarily include capital expenditures. They may also include maintenance costs related to green eligible projects, as well as equity shares of companies and investment in dedicated funds, both specialized in any of the below Green Eligible Projects categories [2].

Green Eligible Projects may also include R&D and innovation expenses, as well as equity shares of companies, related to developing, or acquiring, technology bricks and processes for below eligible projects.

Green Eligible Projects	Description of eligible projects	Eligibility Criteria	EU Environmental Objectives
Biogas	**Anaerobic digestion of bio-waste**	Biogas Anaerobic Digesters meeting all of the following criteria: • A monitoring and contingency plan is in place for methane leakage • Produced biogas is used directly for the generation of electricity or heat, or upgraded to bio-methane for injection in the gas grid or used as vehicle fuel • The bio-waste is source-segregated and collected separately • The produced digestate is used as fertiliser or soil improver • Bio-waste constitute at least 90% of the input feedstock	**Climate change mitigation**
	Landfill gas capture and utilisation	Biogas Landfills meeting all of the following criteria: • The landfill cell is permanently closed during main gas collecting periods • Produced landfill gas is used directly for the generation of electricity or heat, upgraded for injection in the gas grid or used as vehicle fuel • Methane emissions are subject to monthly control and monitoring procedures	**Climate change mitigation**
Carbon Capture	**Capture of CO2**	• Carbon Capture Units [3] for the purpose of decarbonizing hard-to-abate sectors such as cement, steel, petrochemicals, through carbon utilization ("CCU") or long term storage ("CCS") in line with Air Liquide's carbon neutrality trajectory, enabling the facility to meet the Eligibility Criteria set in this Framework for Green Eligible Projects, or the Hydrogen Production Threshold (defined in this Framework)	**Climate change mitigation**
	Transport of CO2	• By pipeline and maritime, including conversion of existing networks, terminals and gas carriers (ships run with alternative fuels) into CO_2 transportation networks	**Climate change mitigation**

[2] A company will be considered eligible if it derives 90% or more of its revenues from activities falling in any of the Green Eligible Project categories.

[3] including for sake of clarity Oxyfuel pathways for the purpose of CO_2 capture

Green Eligible Projects	Description of eligible projects	Eligibility Criteria	EU Environmental Objectives
Energy Efficiency	**Energy efficiency programs**	• Smart & Innovative Operations (SIO) program or other program which relies on data analysis to improve the reliability of oxygen, nitrogen and hydrogen plants and optimize energy consumption	**Climate change mitigation**
	Storage of electricity	• Construction and operation of electricity storage, including using liquid air gases or hydrogen as electricity storage, when hydrogen meets the Hydrogen Production Threshold	**Climate change mitigation**
Hydrogen	**Hydrogen Production**	• Development, construction, and upgrade of hydrogen electrolysers, with related lifecycle emissions that comply with CertifHy European threshold of 4.37tCO_2e/tH_2 ("the Hydrogen Production Threshold"); • Development, construction, and upgrade of conditioning process such as liquefaction of hydrogen to enable its transport, when hydrogen meets the Hydrogen Production Threshold • Acquisition and manufacturing of equipment for the production, conditioning and use of hydrogen, when hydrogen meets the Hydrogen Production Threshold	**Climate change mitigation**
	Storage of Hydrogen	• Construction of storage facilities dedicated to hydrogen, including trailers and containers when hydrogen meets the Hydrogen Production Threshold • Operation of hydrogen storage facilities where the hydrogen stored in the facility meets the Hydrogen Production Threshold • Conversion of existing underground gas storage facilities into hydrogen storage facilities	**Climate change mitigation**
	Transmission and Distribution of Hydrogen	• Construction or operation of transmission and distribution networks [4] dedicated to hydrogen including conversion of existing networks into hydrogen transmission and distribution networks	**Climate change mitigation**
	Hydrogen mobility	• Infrastructure for hydrogen refueling installations for road and off-road transportation, such as passenger cars, public transportation, road freight, waterborne transport and aircrafts • Hydrogen vehicles fleet	**Climate change mitigation**

[4] *Freight / trucks eligible will comply to the technical criteria zero emission heavy duty vehicles or less than half of the reference CO_2 emissions of all vehicles in the vehicle sub-group to which the heavy-duty vehicle belongs .*

Green Eligible Projects	Description of eligible projects	Eligibility Criteria	EU Environmental Objectives
Air Gases	**Manufacture of O_2 & N_2**	• Air Separation Units ("ASU") delivering industry-leading energy efficiency levels, when compared to previous investments in the relevant area • New ASU should be 5% more energy efficient compared to a reference calculated with a normalizing tool and established based on the average of the last 5 years investments[5] • Development of Air Separation Units contributing to industrial pilot units that have the explicit objective to achieve below applicable EU-ETS level of the relevant sector • New process for Air Gases production designed to ensure a smooth integration on power grids featuring a high share of intermittent renewable sources	**Climate change mitigation**
Green Buildings	**Acquisition and Construction**	Acquisition and/or construction of building with the following certification or any equivalent: • Energy Performance Certificate (EPC) Class A • LEED Gold • BREEAM Very Good and Excellent • CASBEE A	**Climate change mitigation**
	Renovation	• Renovation achieving a 30% reduction in Primary Energy Demand or reaching the certification considered above	**Climate change mitigation**
	Installation of energy efficient equipment	• Installation of Class A equipment to improve energy efficiency • Installation of charging stations for electric vehicles • Installation of devices to measure and control energy consumption • Installation of renewable energy technologies	**Climate change mitigation**

[5] *Air Liquide deems that this threshold positions the ASU well above the 10% most efficient units when compared to the average of similar ASU located in the same area*

B. Social Eligible Projects

In line with the SBP, Social Eligible Projects aim at providing socioeconomic advancement and empowerment, access to essential services (e.g. health), and job creation.

Social Eligible Projects will include capital expenditures, maintenance costs related to social eligible projects, as well as equity shares of companies specialized in any of the below Social Eligible Projects categories [6].

Social Eligible Projects may also include R&D and innovation expenses, as well as equity shares of companies, related to developing, or acquiring, technology bricks and processes for below eligible projects.

Social Eligible Projects	Description of eligible projects	Eligibility Criteria	Social benefits
Access to essential services	Home healthcare and proximity / community care services	Development of home healthcare services and of proximity / community care services for long-term follow-up care related services, for chronic or complex patients. **Target population:** each and every person in need of medical care, including the most vulnerable. It includes patients suffering from chronic diseases such as chronic obstructive pulmonary disease, obstructive sleep apnea, chronic respiratory insufficiency, diabetes, pulmonary arterial hypertension, Parkinson's disease, and other pathologies treated by infusion.	Good Health and Well-being
	Medical gases	Development of services and network infrastructures to expand delivery of medical gases to hospitals and clinics (gas supply as well as manufacturing of associated medical devices) **Target population:** hospitals and clinics in need of medical gases, notably for respiratory diseases and intensive care units	Good Health and Well-being
	Health System Strengthening	Development of initiative to improve access to health services in developing countries, such as Access Oxygen in Senegal. **Target population:** Population with limited access to health services in least developed countries	Good Health and Well-being
Supporting entrepreneuship	Air Liquide Venture capital	Minority interest in start-ups to support strategic partnerships between technology companies and Air Liquide, such as ALIAD Venture Capital. **Target population:** Entrepreneurs and start-ups	Decent Work and Economic Growth

[6] *A company will be considered eligible if it derives 90% or more of its revenues from activities falling in any of the Social Eligible Project categories*

3.2 Process for Project Evaluation and Selection

Air Liquide Sustainable Financing working group will evaluate and select the Eligible Projects. This working group will meet at least once a year plus once at the upstream of each new bond issuance with a first meeting scheduled in May 2021. It will be chaired by the Group CFO with representatives from

- Treasury department
- Group Operation Controls department
- Sustainability department
- Each family of Eligible project dedicated experts

The working group together with Business teams will identify Green Eligible Projects and Social Eligible Projects, to be funded from the Bonds Use of Proceeds. Air Liquide will systematically and proactively identify assets which are likely to be allocated to a Green, Social or Sustainability bond issuance either at present or in the foreseeable future. The working group will use the group investments decisions base.

The Sustainable Financing working group will check the compliance of the selected pool of eligible projects with the eligibility criteria defined in this Framework and will be responsible for approving allocations of net proceeds on an annual basis.

The working group will monitor the Eligible Projects Portfolio on an on-going basis, in particular, to identify any Eligible Projects that would exit Air Liquide's portfolio or to remove any Eligible Project that would no longer meet the eligibility criteria, or that would be subject to a material controversy.

The Sustainable Financing working group will manage any future updates to Section 3 "Sustainable Financing Framework" of this Framework. Such updates of this Framework will only apply to Green, Social, and Sustainability financings that are launched after the issuance of a new Second-Party Opinion.

3.3 Management of Proceeds

The net proceeds of any Green, Social, and Sustainability financing will be managed on a portfolio basis by the Group Treasury Department

An amount equivalent to each financing net proceeds will be used to finance Eligible Projects which are part of Eligible Project Portfolio.

- Only Green Eligible Projects can be allocated to Green financings,
- Only Social Eligible Projects can be allocated to Social financings.

The Treasury Department will establish a Sustainable Register, that will be reviewed annually by the Sustainability working group. It will contain information of the use of proceeds of each Green, Social and Sustainability financing, including the amount of allocation per Eligible Projects Category.

For Bond issuances:

- In case of refinancing, Air Liquide could include disbursements related to Eligible Projects made in the 3 calendar years prior to the issuance may be allocated to the Bonds.
- Air Liquide commits on a best effort basis to reach full allocation within 2 calendar years following each Bond issuance.

Pending full allocation, unallocated proceeds may temporarily be invested in accordance with Air Liquide's investment guidelines in cash, deposits and money market instruments.

3.4 | Reporting

After entering into a Green, Social, or Sustainability financing, Air Liquide commits to publish annually a Sustainable Financing Report, which will provide an allocation report and an impact report, as detailed below. The allocation and the impact reporting will be provided until full allocation, and thereafter in case of material changes.

The full reporting document, (the "Sustainable Financing Report") will be made available on Air Liquide's website.

Allocation report

Air Liquide's allocation report will provide information on the following:

(1) The list of outstanding Green, Social and Sustainability financings

(2) The total amount of proceeds allocated per Eligible Project category;

(3) The share of financing and refinancing;

(4) The amount of unallocated proceeds (if any).

Impact report

Air Liquide will provide an impact report to support the allocation report described above.

Environmental impact indicators per Green Eligible Project Category will include impact and output indicators.

- The impact indicator of estimated expected GHG emissions avoided (tCO_2e/year) will be provided, when feasible, per Green Eligible Projects categories.
- Output indicators for Green Eligible Projects categories may include the following:

Eligible Projects	Description of eligible projects	Possible Output Indicators
Biogas	Anaerobic digestion of bio-waste	Annual production of biogas (MWh)
	Landfill gas capture and utilization	Annual amount of landfill gas produced (m^3)
Carbon Capture	Capture of CO_2	Annual amount of CO_2 captured (tCO_2 or m^3)
	Transport of CO_2	Annual amount of CO_2 transported (tCO_2 or m^3)

Eligible Projects	Description of eligible projects	Possible Output Indicators
Energy Efficiency	Energy efficiency programs	Annual reduction of energy consumption in % or in MWh
	Storage of electricity	Annual energy stored in MWh
Hydrogen	Hydrogen Production	Annual Hydrogen production (tH_2 or m^3)
	Storage of Hydrogen	Annual Hydrogen stored (tH_2 or m^3) Energy storage capacity (MW)
	Transmission and Distribution of Hydrogen	Annual Hydrogen transported (tH_2 or m^3)
	Hydrogen mobility	Number of vehicles financed or number of HRS installed or HRS refueling station capacity (H_2 kg per day)
Air Gases	Manufacture of oxygen and nitrogen	Energy saving of the ASU Information on industrial pilot units when relevant
Green Buildings	Building Acquisition and Construction	Surface area (m^2) Annual energy consumption (kWh/m^2)
	Building Renovation	Surface area (m^2) Annual energy consumption (kWh/m^2) Reduction in annual energy consumption after renovation (%)
	Installation of energy efficient equipment	Reduction in annual energy consumption after installation (%)

Impact indicators for Social Eligible Projects categories may include the following:

Social Eligible Projects	Description of eligible projects	Possible Impact Indicator
Access to essential services	Home healthcare & proximity / community care services	Estimated number of beneficiaries
	Medical gases	Estimated number of beneficiaries
	Health System Strengthening	Estimated number of beneficiaries
Green Buildings	Air Liquide venture capital	Number of start-ups supported Estimated number of full time employments created, when available

The impact reporting will include information on the methodology and assumptions used to evaluate the Eligible Projects impacts.

3.5 | External Review

Second Party Opinion

A leading Second Party Provider will issue a Second-Party Opinion of the Framework, to confirm the alignment of the Framework to the ICMA's Green Bond Principles, Social Bond Principles and Sustainability Bond Guidelines and to the Green Loan Principles and Social Loan Principles issued by the LMA.
The Second Party Opinion document will be made available on Air Liquide website.

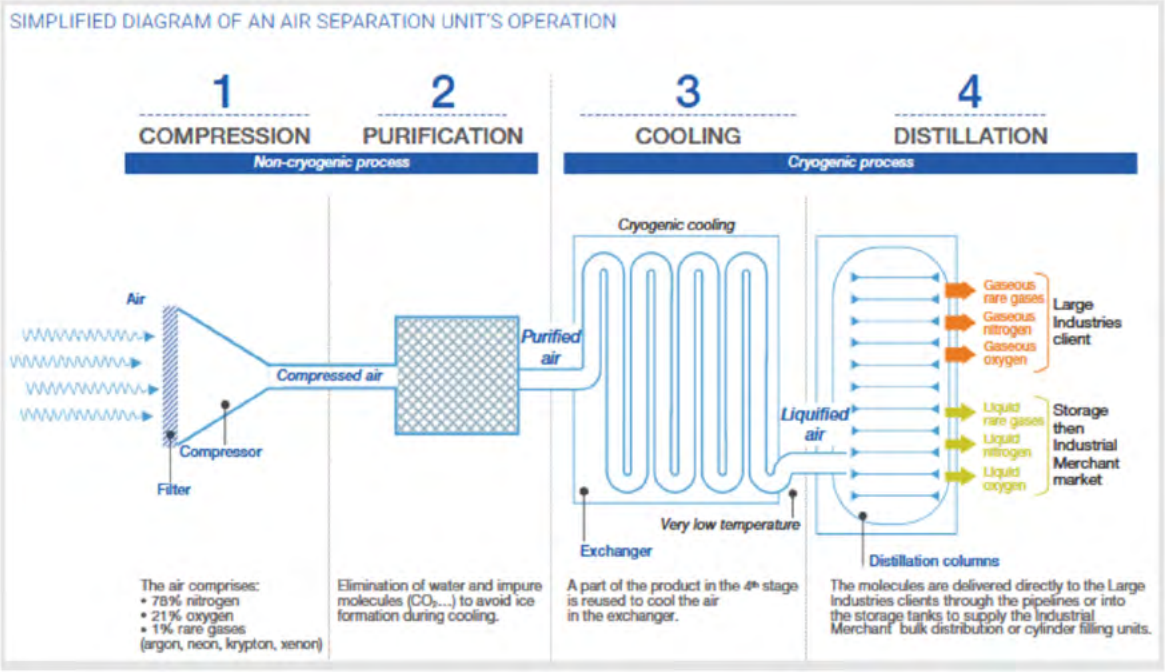
Post issuance external verification

An external verification on the Sustainable Financing Report will be provided by an independent external auditor, on an annual basis and until the complete allocation of proceeds.
The external auditor will verify that the proceeds of the bonds are either allocated to Eligible Projects or invested in approved financial instruments. This will be published on Air Liquide website.

Glossary

Air Separation Unit: Unit separating air into its primary components, mostly dinitrogen and dioxygen.

Air Liquide Low-Carbon Air Separation Unit:



Used in a wide variety of fields, large air separation units (ASU) produce high purity oxygen, nitrogen, argon and rare gases through a combination of adsorption purification, cryogenic distillation and internal compression of high pressure product

An ASU compresses, liquefies and distills air in order to separate it into its different components: 78% nitrogen, 21% oxygen, 1% argon and noble gases (neon, krypton and xenon). Only certain large ASUs can produce rare gases.

Electricity consumption is significant. To help its customers reduce their carbon footprint, Air Liquide has developed an energy-saving equipment which reuses the cooling capacity of gases. The circular approach of the Eco Chiller system is mainly used by customers in the food industries, electronics, water treatment and combustion, who need cryogenic gases, such as CO_2, oxygen or nitrogen, but also a cooling system for their industrial processes. Eco Chiller recovers the cooling capacity of the gases to cool hot water flows and thus avoids the need to install an additional energy-consuming cooling system.

Anaerobic digestion: Breakdown of biodegradable material such as bio-waste or sewage sludge in the absence of oxygen to produce biogas.

Biogas: Gases, including methane and carbon dioxide, produced by the breakdown of biodegradable materials.

Bio-methane: Type of biogas with high concentration in methane.

Carbon Capture and Storage: Process of capturing CO_2 from human activities and transporting it to a storage site to prevent its entry into the atmosphere.

Carbon Capture and Utilization: Process of capturing CO_2 from human activities to use it later.

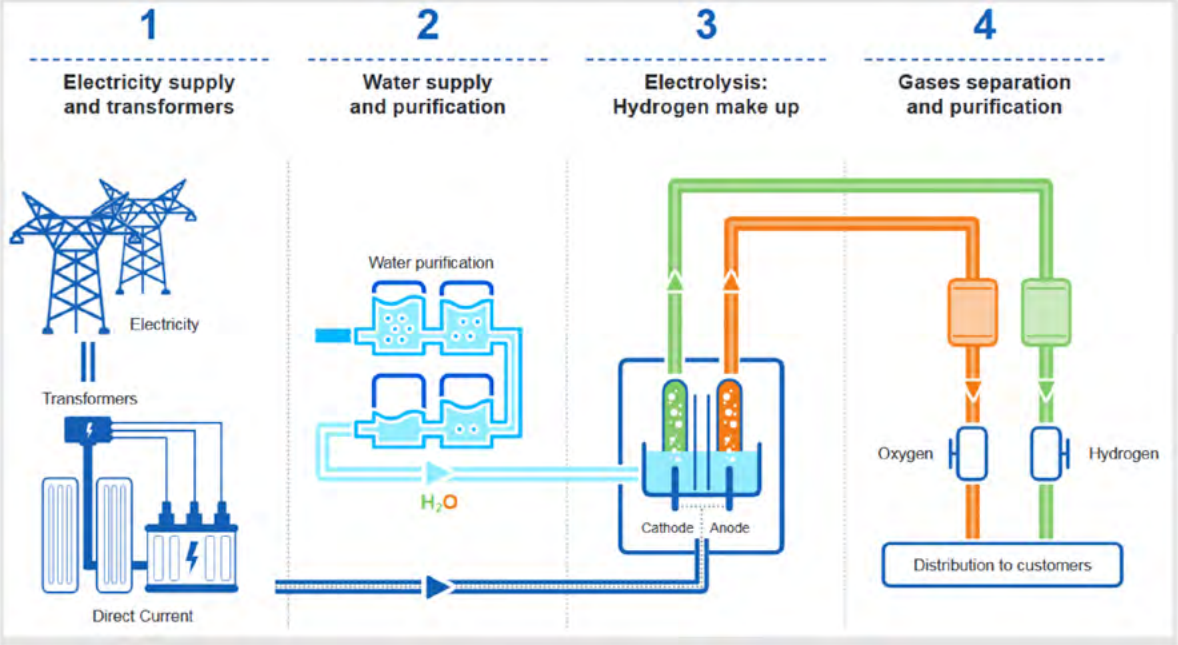
Dihydrogen: Molecule formed with two hydrogen atoms, referred to simply as hydrogen.

Dinitrogen: Molecule formed with two nitrogen atoms, referred to simply as nitrogen.

Dioxygen: Molecule formed with two oxygen atoms, referred to simply as oxygen.

Electrolysers: Unit using electric current to drive a chemical reaction such as the separation of water molecule between dioxygen and dihydrogen.

Air Liquide Hydrogen production through electrolysis:



Hydrogen production through electrolysis is based on the dissociation of water molecules (H_2O) using electricity, to extract hydrogen and oxygen molecules. This process produces hydrogen without using or emitting carbon-based molecules. It can be used to produce carbon-free hydrogen for industry and mobility, as well as for electricity storage.

Oxy-combustion: Process of burning a fuel using pure oxygen or gases with high-oxygen content instead of air.

Oxy-combustion allowing carbon capture of CO_2: The oxy-combustion process being deployed incorporates a CO2 purification process to produce a stream of CO_2 suitable for direct capture and storage. The process helps reduce greenhouse gases from industrial activities that use carbon-based fossil fuels.

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