



alperia

Sustainable Finance:
**Green Financing
Framework**

www.alperigroup.eu

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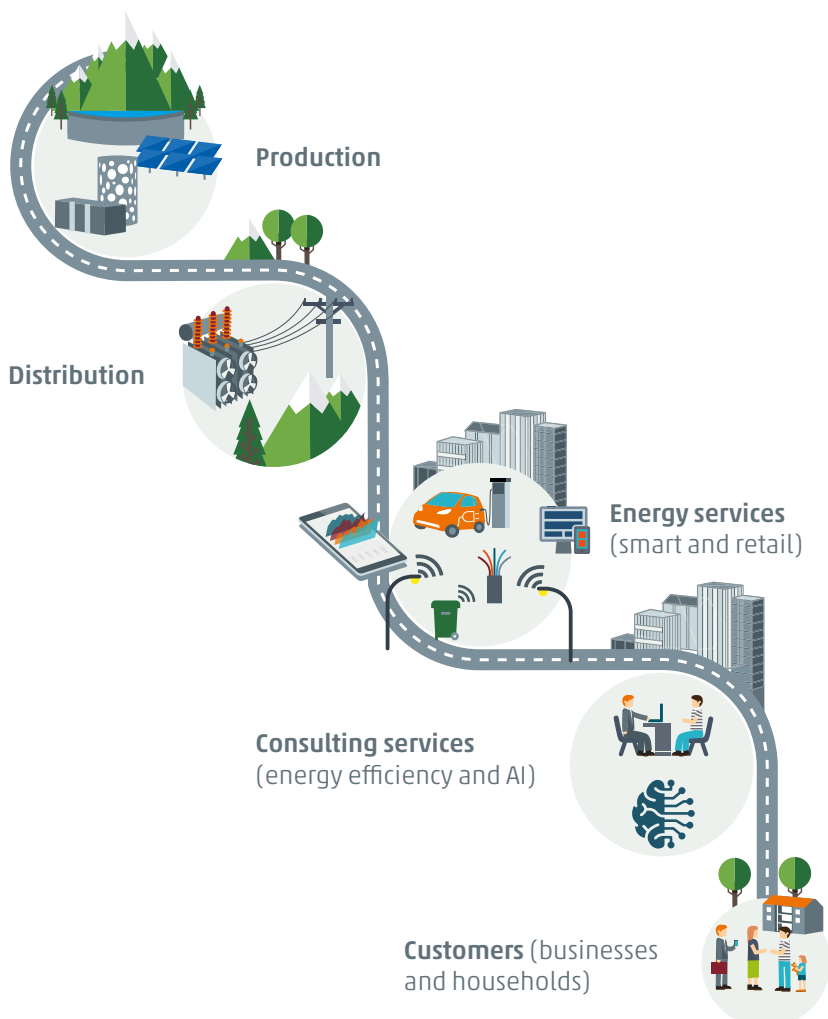
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1 INTRODUCTION

1.1 About Alperia

Alperia aims to be **a partner for a just energy transition**: we produce energy from renewable sources, manage the electricity grid, operate district heating systems, take care of energy sales and e-mobility, and implement smart energy and innovative environmental projects for our clients.

We are the leading energy supplier for South Tyrol as well as the **fourth largest producer of renewable energy** and the third largest producer of hydroelectric power in Italy¹. Sustainability is at the core of our strategies and the fundamental driver for our development.

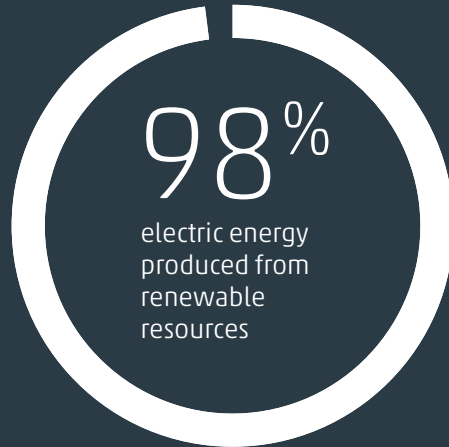


¹Annual Report 2022; Arera

ALPERIA IN NUMBERS



35
hydropower
plants



7
district
heating plants



7
photovoltaic
plants



3.4 TWh
net energy production



9,199 km
electricity networks

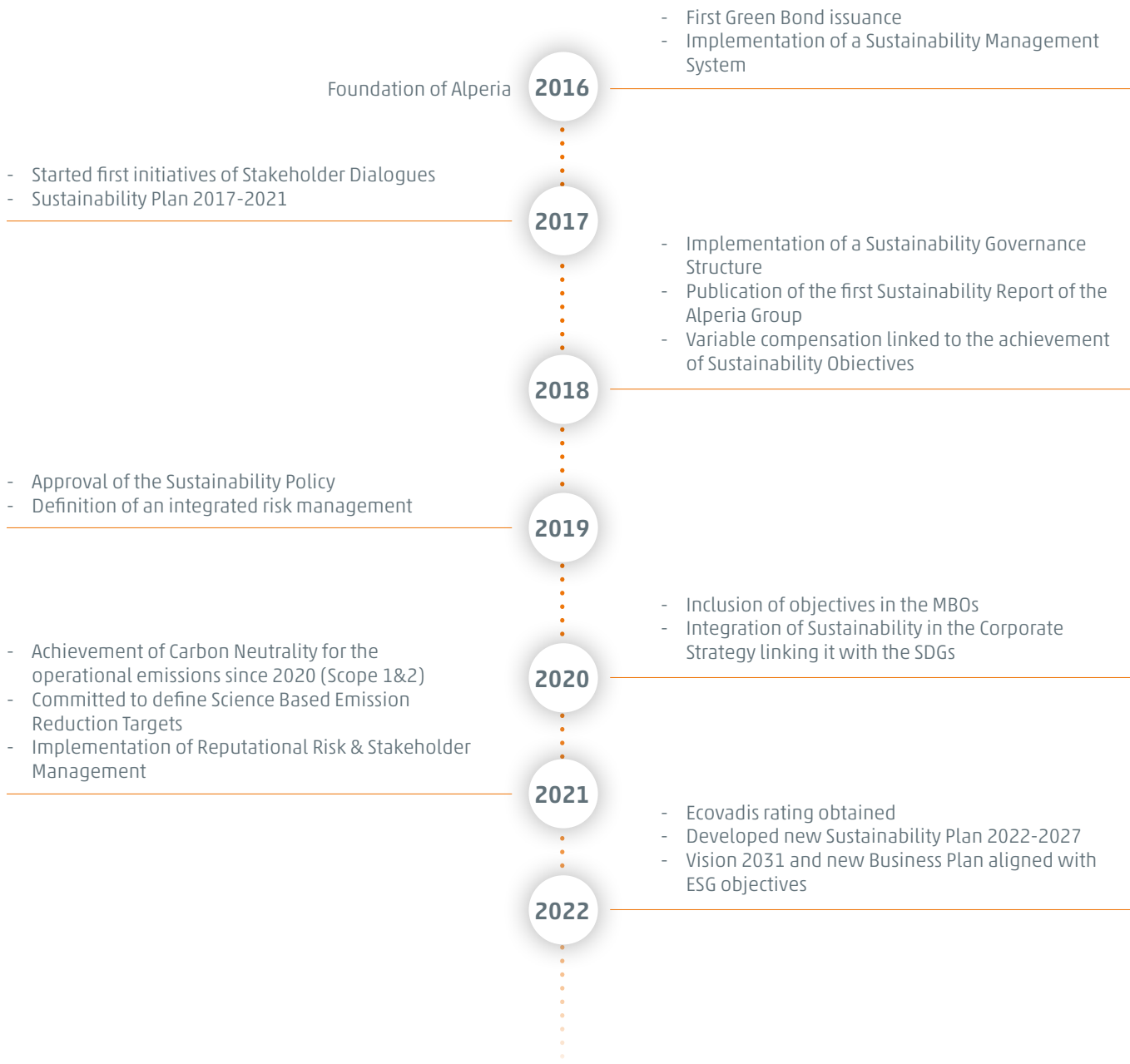


2 SUSTAINABILITY IN ALPERIA

2.1 Our Sustainability Journey

Our sustainability story began 120 years ago, when we started working on the development of clean, green and renewable energy.

Since then, our priorities were to act with **respect for the environment, create value for local territories and communities, and contribute to the energy transition**. The following are the milestones in our journey towards sustainability since 2016:



Based on our engagement with our stakeholders and our materiality assessment, Alperia has defined **five material sustainability topics**. Targets, measures and performance are disclosed annually in our Sustainability Report.



PEOPLE:

- Health and safety at work
- Employee involvement and development
- Diversity and equal opportunities



GREEN MISSION:

- Energy consumption
- Emissions cutting
- Water



TERRITORY:

- Added value for the territory
- Supply Chain



CUSTOMERS:

- Sustainable energy products and services
- Customer satisfaction

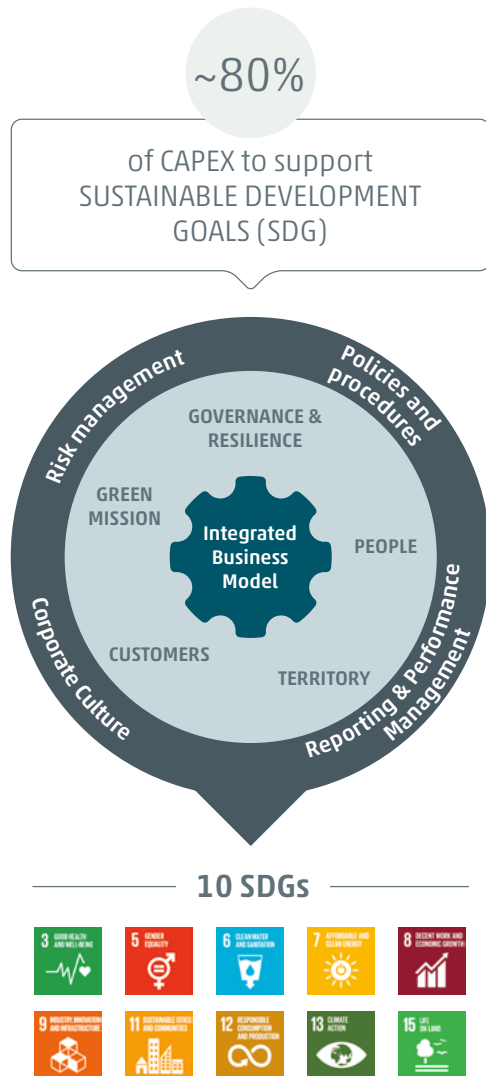


GOVERNANCE & RESILIENCE:

- Integrated governance and good business conduct
- Economic development and resilience of business model
- Security and accessibility of supply
- Asset Integrity
- Innovation, digitisation, research and development
- Cyber security & Data Protection

2.2 Integrated Strategy

Consolidation, sustainability and innovation are the cornerstones which will guide Alperia's future development. We will invest €1.7 billion between 2023 and 2031 to support the energy transition.



To this end, Alperia has elaborated three strategic documents to define the mission and impacts of its activities in the long term: the Vision 2031, the Business Plan 2023-2027 and the Sustainability Plan 2022-2027. We will be working towards the sustainability goals we have set ourselves, **cutting emissions, creating value for the communities, adapting Diversity & Inclusion policies and expanding our integrated governance model.**

We support the South Tyrolean government with the elaboration of the South Tyrolean Climate Plan 2040, which sets ambitious targets for South Tyrol:

- 55% cut in CO₂ emissions by 2030, 70% cut by 2037 (compared to 2019 levels) and achievement of Net Zero by 2040;
- increase of the share of renewable energies in gross final energy consumption (transport sector excluded) from the current 67% to 75% in 2030 and 85% in 2037 to 100% in 2040;



- reduction of other greenhouse gas emissions, in particular N₂O and methane, by 20% by 2030 and 40% by 2037 (compared to 2019 levels);
- reduction of the share of the population at risk of poverty by 10% by 2030 compared to 2019 levels (approx. 18% in 2019).

Alperia plays a key role in the achievement of these ambitious goals through direct and indirect actions as set out in our strategy. Our key objectives – in line with the SDGs prioritised by Alperia and the South Tyrol Climate Plan 2040 – are:



ENVIRONMENT:

- Reduce emissions by 46% by 2027 and 70% by 2031 with offsetting of non-avoidable emissions:
 - **Scope 1 greenhouse gas (GHG) emission reduction:** 39% reduction by 2027 and 56% by 2031 and offsetting of non-avoidable emissions through switch from fossil fuels to renewable sources (i.e. biomass) in our district heating plants, electrification of our car fleet, reduction of natural gas consumption for heating in offices and increase of renewables with extension of photovoltaics on our roofs, and other energy-efficiency measures;
 - **Scope 2 GHG emission reduction:** 4% reduction by 2027 and 6% by 2031 and offsetting of non-avoidable emissions through the full transition to renewable electricity consumed;
 - **Scope 3 GHG emission reduction:** 47% reduction by 2027 and 71% by 2031 and offsetting emissions of the green gas product through increasing the share of green electricity sold to 72% in 2027 and 100% in 2031, as well as the share of green gas sold (includes a mixture of compensation, biomethane and H₂) to 49% in 2027 and 61% in 2031. We also aim to expand our other decarbonisation solutions for our customers, such as consumption monitoring systems, heat pumps, B2C and B2B photovoltaic systems, district heating network and other additional energy-efficiency projects in order to reduce our Scope 3 emissions;
- **achieve Net Zero by 2040** with 90% reduction in CO₂ emissions and offsetting the remaining 10%;
- **minimise the impact of our hydropower plants on nature** with specific investments at our plants and its surroundings (Environmental Plans Investments for riparian municipalities);
- actively **protect the biological diversity of streams** with, for example, fish ladders and research in sedimentation management;
- **promote the efficient and responsible use of water resources** with awareness campaigns and innovation projects such as Smart Land, which improves irrigation of fruit-growing areas with the help of intelligent sensors and a digital infrastructure.



SOCIAL & TERRITORY:

- **promoting diversity and inclusion:**
 - increase the percentage of women in management to 50% and the workforce to 30% by 2031;
 - eliminate the gender pay gap by 2031;
 - promotion of voluntary equal parental leave; and
 - promotion of intergenerational initiatives to lower the average age of our employees.
- **promoting the health of our employees** and ensuring full safety at work;
- **Corporate Wellness measures:** strengthening internal communication, launching stress management training and a programme on ergonomics and mental health;
- **ESG assessment of the supply chain**, activation of 100% of significant contracts with specific sustainability criteria;
- **creation of added value for our territories** through strategic initiatives and projects for the community and for Alperia through increased spending on community investment projects with a specific focus on **inclusion, awareness and education, social welfare and health, emergency relief, and environmental protection.**



GOVERNANCE:

- **continuous improvement of our ESG integrated governance model** in terms of procedures, reporting, risk management, financing, investments, management remuneration, culture and training;
- **increase the resilience and safety of our production plants** and the electricity grid in view of climate change.



3 RATIONALE FOR SUSTAINABLE FINANCE

Alperia fully integrates sustainability into its business strategy, in line with South Tyrol's sustainable development objectives. The Company strives to **generate shared value, combining its industrial objectives with the socio-economic development of the territories and communities** in which it operates.

Alperia launched its **first Green Bond in 2016**. The Sustainable Finance: Green Financing Framework (the "Framework") is a tangible step forward in **mobilising stakeholders around our ESG objectives**. It allows Alperia to display its sustainability strategy through the use of different Sustainable Financing Instruments that enable the funding of several significant Eligible Projects.

Potential Sustainable Financing Instruments may include various types of green financing instruments, such as Green Bonds (including public and private format debt), Green Loans (including but not limited to Term Loans, Project Finance Loans, Asset Finance, Loans and Revolving Credit Facilities (RCF)), and any other financial instrument to which an eligible asset or project, or a group of those, are allocated.

The Framework is aligned with the ICMA Green Bond Principles (GBP) 2021 and the LMA Green Loan Principles 2023. It is also intended to align (on a best-effort basis and to the extent currently possible) with the proposal for the EU Green Bond Standard and the EU regulation setting forth a framework to facilitate sustainable investments (Regulation (EU) 2020/852, the 'EU Taxonomy'). It will apply to any Sustainable Financing Instruments used by Alperia and will be in force as long as any Sustainable Financing Instrument is ongoing.



4 ALPERIA'S SUSTAINABLE FINANCE: GREEN FINANCING FRAMEWORK

The Framework has been drafted to align with the latest versions of the Green Bond Principles 2021 administered by the International Capital Market Association (ICMA)² and the Green Loan Principles 2023³ administered by the Loan Market Association and their four core components:

- I. Use of Proceeds
- II. Project Evaluation and Selection Process
- III. Management of Proceeds
- IV. Reporting

This Framework may be updated from time to time to ensure continued alignment with voluntary market practices, emerging standards and classification systems. Any updated version of this Framework will either maintain or improve the current levels of transparency, reporting and disclosure and will be subject to the same external review standards.

4.1 Use of Proceeds

An amount equal to the net proceeds from the issuance of the Green Financing Instruments will be used to finance or refinance, in part or in full, new or existing Eligible Green Projects. The Eligible Green Projects contribute to the **achievement of environmental goals integrated into Alperia's Sustainability Strategy**, and they are aligned with the main eligible categories of the ICMA Green Bond Principles as well as the LMA Green Loan Principles. Eligible Green Projects may include capital expenditures, operating expenditures related to improvement and maintenance of Eligible Green Projects, including but not limited to research and development, materials purchase costs and acquisitions of Eligible Green Assets.









The selection criteria have been set, to the greatest extent possible, **in accordance with the EU Taxonomy** for environmentally sustainable activities. A dedicated assessment of the allocated Eligible Green Projects' alignment with the EU Taxonomy will be performed within the annual Allocation Report.

²ICMA Green Bond Principles 2021 available [here](#)

³LMA Green Loan Principles 2023 available [here](#)

Eligible Green Category	EU Taxonomy Activity	Eligible Projects/Activities	Environmental Benefits	Contribution to UN SDGs
Renewable Energy	4.1 Production of electricity from solar PV	Electricity generation using solar PV technology	Climate change mitigation: - reduction of greenhouse gas emissions; - increase transmission, generation and storage of energy from renewable sources.	   
	4.5 Production of electricity from hydro-power	The activity complies with either of the following criteria: - the electricity generation facility is a run-of-river plant and does not have an artificial reservoir; - the power density of the electricity generation facility is above 5 W/m ² ; - the life cycle GHG emissions from the generation of electricity from hydropower are lower than 100 gCO ₂ e/kWh.		
	4.9. Transmission and distribution of electricity	Transmission and distribution infrastructure or equipment is in an electricity interconnected European system, i.e. the interconnected control areas of member states, Norway, Switzerland and the United Kingdom, and its subordinated systems. Infrastructure dedicated to creating a direct connection or expanding an existing direct connection between a substation or network and either a power production plant that is more greenhouse gas intensive than 100 g CO ₂ e/kWh (measured on a life cycle basis), or, in the absence of GHG intensity figures, a fossil fuel power production plant, is excluded.		
	4.10 Storage of electricity	The activity is the construction and operation of electricity storage including pumped hydropower storage.		
	4.24 Production of heat/Cool from bioenergy	Construction and operation of facilities that produce heat/cool exclusively from biomass, biogas or bioliquids, and excluding production of heat/cool from blending of renewable fuels with biogas or bioliquids. The reduction of greenhouse gas emissions from the use of biomass must be at least 80% compared to a relative fossil fuel comparator ⁴ . The bioenergy feedstock origin is tracked. It comes from a short local supply chain within 200 km from the city of Bolzano and is clearly classified (e.g., wood scraps, woodchips ...)		
	3.10 Manufacture of hydrogen	The activity is the manufacture of hydrogen and hydrogen-based synthetic fuels. The activity complies with the life cycle GHG emissions savings requirement of 73.4% for hydrogen [resulting in life cycle GHG emissions lower than 3 tCO ₂ e/tH ₂] and 70% for hydrogen-based synthetic fuels relative to a fossil fuel comparator of 94 g CO ₂ e/MJ.		
	4.12 Storage of hydrogen	The activity is the construction and operation of hydrogen storage facilities which can return it later. The activity is related only to the facilities requested by 3.10 activities.		

⁴This emission reduction is calculated by comparing emissions from the use of natural gas and the use of biomass to produce the same amount of heat with the same technology. Emissions are calculated using the most up-to-date DEFRA conversion factors.

Eligible Green Category	EU Taxonomy Activity	Eligible Projects/Activities	Environmental Benefits	Contribution to UN SDGs
Energy Efficiency	4.15 District heating/cooling distribution	Construction and operation of pipelines and associated infrastructure for distributing heating and cooling where the system meets the definition of efficient district heating and cooling systems laid down in Article 2, Point 41, of Directive 2012/27/EU ⁵ .	Climate change mitigation: - reduction of greenhouse gas emissions; - increase renewable energy storage capacity; - improve energy savings.	   
	7.6 Installation, maintenance and repair of renewable energy technologies	Installation, maintenance and repair as technical building systems of: solar photovoltaic systems and the ancillary technical equipment installed on site as technical building systems.		
	9.1 Close-to-market research, development and innovation	Research, applied research and experimental development of solutions, processes, technologies, business models and other products dedicated to the reduction, avoidance or removal of GHG emissions (RD&I) for which the ability to reduce, remove or avoid GHG emissions in the target economic activities has at least been demonstrated in a relevant environment, corresponding to at least Technology Readiness Level (TRL) 6.		
	9.3 Professional services related to energy performance of buildings	The activity consists of one of the following: - energy management services; - energy performance contracts.		
Clean Transportation	7.4 Installation, maintenance and repair of charging stations for electric vehicles in buildings (and parking spaces attached to buildings)	Installation, maintenance or repair of charging stations for electric vehicles.	Climate change mitigation: - reduction of greenhouse gas emissions; - improve infrastructure for increasing clean or climate-neutral mobility.	   

⁵Directive 2012/27/EU of the European Parliament and of the Council of 25 October 2012 on energy efficiency, amending Directives 2009/125/EC and 2010/30/EU and repealing Directives 2004/8/EC and 2006/32/EC. Text with EEA relevance available here

As per the European Taxonomy Regulation, in 2021 and 2022, Alperia has implemented the classification of the activities to be considered as environmentally sustainable and has identified eligible and non-eligible activities and aligned and not aligned activities.

Among the activities that have not yet met the aligned criteria, the two most important for Alperia are: the transmission and distribution of electricity and the production of heat/cool from bioenergy.

In detail, transmission and distribution infrastructure and equipment are located within the interconnected European electricity system. The metering infrastructure meets the requirements of smart metering systems. There is currently no carbon footprint available to determine whether the greenhouse gas intensity of the infrastructure (used to create a direct connection or to expand an existing direct connection between a substation or grid and a power plant) is greater than 100 gCO_{2e}/kWh. Since it is not possible to single out the investments related to these infrastructures, Alperia has conservatively decided to classify all activities related to electricity transmission and distribution as eligible but not aligned in its reporting.

For the eligible green categories, the criteria used are linked to the Taxonomy eligibility criteria. New interconnections related to fossil fuel will be excluded.

The activities related to the Production of Heat/Cool from Bioenergy are not aligned due to the lack of an international certification of the bioenergy for the eligible green categories; the criteria are otherwise linked only to the Taxonomy eligibility criteria.

The Production of Heat/Cool is linked only to biomass. This biomass, used in the district heating power plants of Alperia EcoPlus, is exclusively supplied by virgin wood. More specifically, it consists of wood chips or the by-products of sawmills and/or forestry activities or is sourced directly from logs. It is mostly sourced from South Tyrol and from small producers adjacent to the power plants in order to make the supply chain as short and sustainable as possible.

The origin and quality of the biomass that is used within the Alperia EcoPlus power plants is guaranteed through the supply tenders themselves (a distance limitation is included), as well as the monitoring that is carried out within the EMAS certification scheme (which all Alperia EcoPlus sites are provided with) and by formal communications sent periodically to the Autonomous Province of Bolzano.

Furthermore, Alperia EcoPlus monitors biomass supply risks and aims to adopt supply tender criteria for the selection of the biomass to cover the gap with the Taxonomy requirements and to protect its short supply chain.

Alperia is committed to adopt the measures required to meet all the EU Taxonomy Technical Screening Criteria in order to continuously increase the alignment of its activities with the EU Taxonomy.

All the Eligible Projects are carried out directly by Alperia and/or indirectly through its subsidiaries. All the Eligible Projects/ Activities are located in Italy.

Please refer to Annex 1 for further information on the eligible activities.



4.2 Process for Project Evaluation and Selection

A. Sustainable Finance Committee

Alperia established a dedicated Sustainable Finance Committee, **chaired by the Head of M&A – Structured Finance** and represented by the Head of CSR, Head of Administration & Finance, Head of Engineering & Consulting, the Energy Manager and the Head of Budgeting & Controlling. In addition, Subsidiaries/Business Units relating to specific project(s) and KPI(s) will be involved on an ad-hoc basis.

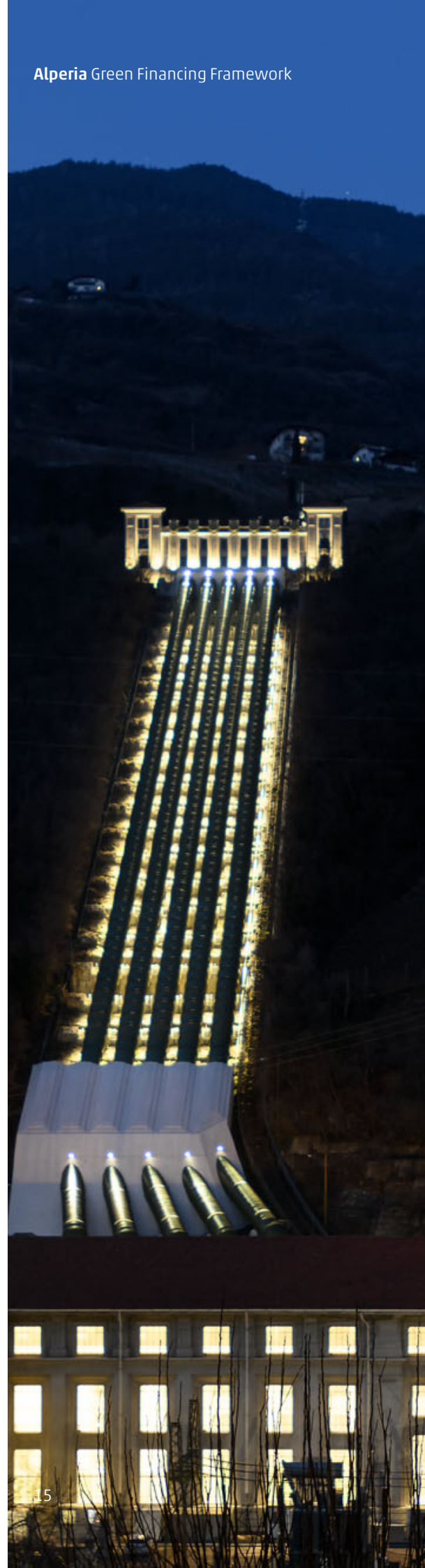
In the context of sustainable finance, the Sustainable Finance Committee will be responsible for:

- reviewing, selecting and validating the Eligible Green Projects;
- annual monitoring of the selected Eligible Green Projects for the lifetime of the Sustainable Finance Instrument;
- in the event of a project postponement, cancellation, divestment or ineligibility, identifying a new Eligible Green Project to replace it;
- identify, implement and monitor projects to increase the alignment with the EU Taxonomy;
- review of planned investments in the various Business Units in alignment with the EU Taxonomy;
- ensure that the Budgeting & Planning process is aligned with objectives set by the Sustainable Finance Committee;
- supporting, facilitating, and validating impact and allocation reporting;
- monitoring the ongoing evolution of international standards regarding sustainable finance, particularly in relation to disclosure and reporting, to ensure Alperia is in line with best market practices.

The Sustainable Finance Committee will meet on a quarterly basis, or more frequently as required, to review proposed allocations and ensure that these are in alignment with the Framework.

B. ESG Risk Management

Alperia's risk management system is an essential part of the Group's decision-making processes. The main task of the risk management function is to **implement and develop the management of risks**, both financial and non-financial. Within Alperia, risk management operates both on an Enterprise level, as well as vertically with dedicated resources in Trading, Sales and Cyber. In 2022, a **Group-wide Enterprise Risk Management Policy** was implemented and approved by the board, which defines risk governance, processes and a risk model. The latter aims at identifying all relevant risk categories which could impact Alperia over the horizon of the Business Plan. However, some risk categories, such as **climate-related risks, are being monitored over a longer horizon.**



The risk management process is based on ISO 31000 and the COSO Framework and has been audited to ensure best-practice alignment. The process is being supported by a **dedicated risk management software**, which is coherent with the risk management process and supports the complete risk life cycle, including risk mitigation and reporting – both on a Group- and Business-Unit level. ESG-related risks are also monitored in this tool. An overview of these risks is reported annually in the risk management appendix of Alperia's Sustainability Report.

The Group has a Risk Policy which also incorporates the management of ESG risks. Other relevant policies and procedures include:

- Group Sustainability Policy
- Group Diversity Policy
- Group Code of Ethics
- Group Disciplinary Code
- PRO 101 – CSR Management and Integrated Governance Procedure
- PRO 102 – Safety Risk Assessment and Specific Risk Management Procedure
- PRO 103 – Environmental Risk Assessment Procedure
- PRO 105 – Information Risk Assessment Procedure
- PRO 407 – Whistleblowing Procedure
- Organisation, Management and Control Model 231 (MOG 231)

At supervisory board level, ESG risks are overseen by the Control, Risk and Sustainability Committee.

Projects are considered and assessed based on their environmental impact, their compliance with the eligibility criteria described above and their contribution to our sustainability strategy. They are expected to adhere to Alperia's policies and standards mentioned above. The Eligible Green Projects are also expected to comply with applicable national, European and international environmental and social standards and regulations.

4.3 Management of Proceeds

An amount equal to the net proceeds of the Green Financing Instrument issued under this Framework will be managed and overseen by the Finance team.

Net proceeds from the issuance of Green Financing Instruments can be used to finance or refinance new or existing projects and expenditures in accordance with the eligibility criteria outlined above, with a **look-back period of up to 3 fiscal years** before the year of each issuance.

The Finance team will ensure, on a best-effort basis, that the portfolio of Eligible Projects exceeds, or at least is equal to, the net amount of Green Financing Instrument proceeds raised under this Framework.

Alperia has set up internal procedures to track the use of proceeds of its green financings and has established a register to monitor the Green Eligible Projects.

Alperia commits, on a best-effort basis, to reaching full allocation within the 2 fiscal years after the year of each issuance.

Pending the full allocation to eligible projects, Alperia commits to holding the balance of net proceeds not already allocated in cash, cash equivalent, bank accounts/deposits and/or in monetary funds managed



by the company's Treasury, following the internal finance and risks policy of the Company. Unallocated proceeds will not finance GHG-intensive activities or any other activity not coherent with the present Framework.

If an Eligible Green Project no longer meets the eligibility criteria or is disposed of during the funding period (i.e. prior to the issue maturity), Alperia's Sustainable Finance Committee will remove the project from the Eligible Green Project portfolio. The proceeds initially allocated to the disposed asset shall be reallocated to another Eligible Green Project held by the Group, based on the same process laid out in 4.2 Process for Project Evaluation and Selection. Replacement of the project(s) will be done on a best-effort basis within a reasonable period of time of 24 months following the disposal.

4.4 Reporting

Until an amount equal to the net proceeds has been earmarked in full to Eligible Green Projects, and later, in case of any material change in the list of Eligible Green Projects earmarked, **Alperia will publish annually (i) an Allocation Report and (ii) an Impact Report**, the latter subject to the availability of suitable information and data. The reports will be publicly available on Alperia's website and/or in a dedicated part of the Sustainability Report.

Allocation Report

With the aim of providing disclosure on the allocation of net proceeds, the Allocation Report will include:

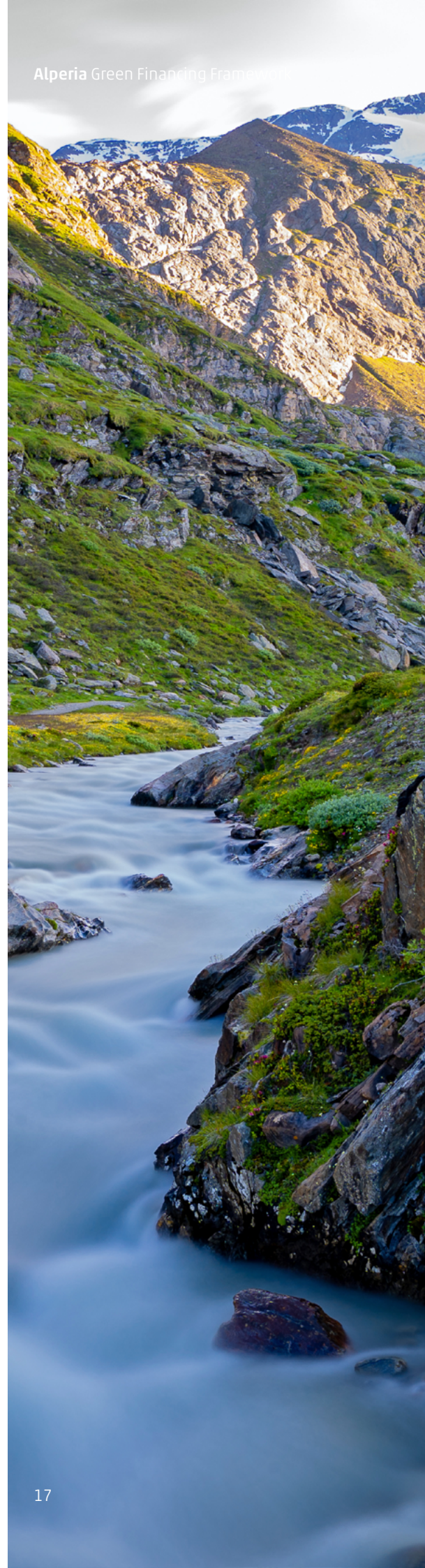
- a list of the key Eligible Green Projects per green category;
- a list of outstanding Sustainable Financing Instruments;
- the total amount of proceeds allocated to Eligible Projects, per green category;
- the proportion of the proceeds allocated to financing vs refinancing;
- the balance of unallocated proceeds;
- % CapEx allocated to fully EU Taxonomy-aligned projects
- % OpEx allocated to fully EU Taxonomy-aligned projects

Alperia will also report on the material developments related to Eligible Green Projects, including ESG controversies and issues, where feasible and relevant.

Impact Report

The Impact Report will provide information on the associated environmental impact metrics and outcomes of the Eligible Green Projects, subject to the availability of suitable information and data. Alperia will, on a best-effort basis, align the reporting with ICMA's Handbook on a Harmonised Framework for Impact Reporting .

The report will include qualitative descriptions as well as quantitative impact indicators where feasible. Examples of potential impact indicators are provided below. The Environmental Impact Report will also disclose the calculation methodologies and assumptions used for the environmental indicators in its impact reporting.



Eligible Green Category	Potential Impact Indicators
Renewable Energy	<p>For Production of Electricity from Solar PV and Hydropower and Storage of electricity:</p> <ul style="list-style-type: none"> - renewable energy produced (MWh/year); - CO₂ avoided (tCO₂e/year); - new renewable installed capacity (MW); <p>For Transmission and Distribution of Electricity:</p> <ul style="list-style-type: none"> - % 2nd generation smart meters/1st generation smart meters; - GHG emissions avoided (tCO₂e/year); - served citizens/points of grid distribution (POD, PDR); - new installed transformers (n); - % underground network/total network. <p>For Production of Heat/Cool from Bioenergy:</p> <ul style="list-style-type: none"> - heat produced exclusively from biomass (MWh/year); - CO₂ avoided (tCO₂e/year); - new renewable installed capacity (MW). <p>For Manufacturing of hydrogen:</p> <ul style="list-style-type: none"> - tons of hydrogen manufactured <p>For Storage of hydrogen:</p> <ul style="list-style-type: none"> - hydrogen storage capacity in tons
Energy Efficiency	<p>For District heating/cooling distribution:</p> <ul style="list-style-type: none"> - number of new clients connected to the district heating (n); - km of pipelines; - CO₂ avoided (tCO₂e/year); - new installed capacity (MW). <p>For installation, maintenance and repair of renewable energy technologies:</p> <ul style="list-style-type: none"> - number of installations by activity (n); - new renewable installed capacity (MW); - renewable energy production (MWh); - CO₂ avoided (tCO₂/year). <p>For Close-to market research, development and innovation and Professional services related to energy performance of buildings:</p> <ul style="list-style-type: none"> - number of installations by activity (n); - CO₂ avoided (tCO₂/year).
Clean Transportation	<ul style="list-style-type: none"> - number of electric vehicle charging points installed

4.5 External Review

Second-Party Opinion

DNV has been appointed to review Alperia's Green Finance Framework and ultimately verify its alignment with the ICMA Green Bond Principles 2022 and market practices. The Second-Party Opinion can be found on the Alperia website.

Post-Issuance External Review

Alperia will obtain a limited assurance report from an independent auditor, which will be issued annually until the proceeds of the Green Financing Instrument have been fully allocated, confirming that an amount equal to the net proceeds of the Green Financing Instrument have been allocated in compliance with all material respects of the criteria set forth in the Green Bond Framework. This external review report will be publicly available as part of the annual Allocation Report and/or the Sustainability Report.

ANNEX 1: Details of the Eligible Activities

4.1 Production of Electricity from Solar PV:

The activities include the construction and operation of electricity facilities that produce electricity using solar photovoltaic technology. The aim is to invest in new photovoltaic plants in order to increase the generation capacity.

4.5 Production of Electricity from Hydropower

The activities include the construction and the operation of electricity generation facilities that produce electricity from hydropower. Alperia already produces green energy from 35 hydropower plants (2 hydropower plants are pumped hydro-power storage plants and are thus included in the 4.10 activity); future investments will be directed towards the maintenance and modernisation of hydroelectric plants to protect and improve the existing capacity.

4.9. Transmission and Distribution of Electricity

The activity consists of the construction and operation of distribution electricity systems. The aim is to invest in net expansion and upgrading, in projects for grid voltage unification to reduce losses, in maintaining a high quality of service (thanks to underground power lines and electrical substation automation) and in new-generation smart metering systems.

4.24 Production of Heat/Cool from Bioenergy

The production of heat/cool is linked only to biomass used in the district heating power plants of Alperia Ecomplus. The aim is to increase heat production for district heating through biomass by building 3 new plants and acquiring 2 existing plants. The production of heat/cool in 2021 and 2022 has been considered eligible but not aligned with the European Taxonomy criteria due to the lack of an international certification for the bioenergy.

However, the origin and quality of the biomass that is used within the Alperia Ecomplus power plants is guaranteed through the supply tenders themselves, the EMAS certification scheme and by formal communications sent periodically to the Autonomous Province of Bolzano.

4.10 Storage of Electricity

The activities are currently (2021 and 2022) exclusively linked to the construction and operation of pumped hydropower storage plants. The aim is also to invest in initiating projects on pumping systems and the development of electrochemical storage systems.

3.10 Manufacture of Hydrogen and 4.12 Storage of Hydrogen

Alperia aims to develop hydrogen technology, investing in hydrogen production projects and also in the construction and operation of hydrogen storage facilities. Alperia is developing projects regarding hydrogen production by electricity, storage, and return of that hydrogen.

In detail: the Alperia Group has recently become involved in two projects: the realisation of a hydrogen refuelling station in the municipality of Brunico, and, as a second project, the realisation of a green hydrogen production plant in the municipality of Bolzano in collaboration with the local public transport company.

4.15 District Heating/Cooling Distribution

The activity is linked to the construction, refurbishment and operation of pipelines and associated infrastructure for the distribution of heating, ending at the substation or heat exchanger.

Alperia Ecomplus aims to expand the district heating network, while maintaining and extending the certification of efficient district heating and cooling systems. For the district heating network in the city of Bolzano, investments are planned for expansion to different areas of the city (hospital, industrial area, ...)

7.6 Installation, Maintenance and Repair of Renewable Energy Technologies

In addition to producing electricity from renewable sources, Alperia aims to help the local area self-produce green electricity. For this reason, among its activities related to energy efficiency, it has chosen to invest in projects of installation, maintenance and repair of solar photovoltaic systems on site as technical building systems.

9.1 Close-to-Market Research, Development and Innovation

This category of activities is linked to the use of artificial intelligence for the optimisation of industrial processes. Alperia is investing in technologies using proprietary artificial intelligence algorithms and predictive models to automatically optimise the operation of complex and non-standard processes, leading them to work in more efficient operating regions, reducing energy use and GHG emissions, while complying with quality and/or process constraints.

9.3 Professional Services Related to the Energy Performance of Buildings

The activity consists of one of the following:

- energy management services: for example, projects to monitor and manage the heating of public administration buildings;
- energy performance contracts: for example, contracts linked to the HVAC optimisation.

7.4 Installation, Maintenance and Repair of Charging Stations for Electric Vehicles in Buildings (and Parking Spaces Attached to Buildings)

The Alperia Group is committed to improving and promoting green mobility through the installation, maintenance and repair of charging stations for electric vehicles in buildings.

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