




#Renewables4All




A full-page photograph of a wind farm in a dry, open landscape under a clear blue sky. In the foreground, two workers wearing hard hats and high-visibility vests are walking away from the camera. To the right, a large white wind turbine tower rises, with a staircase leading up to a platform. In the background, a line of wind turbines stretches across the horizon. The image is overlaid with abstract, curved shapes in shades of blue and green in the upper half.

New forms of energy  
**for a new world.**



Founded in December 2008 and forming part of the Enel Group, Enel Green Power produces and manages energy generated by renewable sources worldwide.




With a presence in Europe, America, Asia, Africa and Oceania, Enel Green Power is a global leader in the clean energy sector\*, with an annual production of approximately **108 TWh\*\***.

Enel Green Power operates in **29 countries** and has a managed capacity of over **43 GW** (including over 39 GW of installed capacity); with more than **1200 plants** and a generation mix that includes the main renewable sources: **wind, solar, hydroelectric** and **geothermal** power. An additional 7.8 GW of capacity is scheduled to be built by 2020.

**Technological and geographical diversification** are the main pillars of the company's development strategy, which focuses its investments in **growing markets** characterised by an excellent availability of natural resources, strong energy demand growth rates and a stable socioeconomic situation.

Enel Green Power has promoted an increasing incorporation of **sustainability** into its strategic vision, with the goal of increasing the benefits for the local communities where the company is active. The company has shifted from a reactive to a more proactive approach to critical issues, aimed at identifying opportunities for Creating Shared Value together with local communities.

Enel Green Power believes that renewable energies are an important tool for promoting the competitiveness of the countries' production industry and for guaranteeing the security of energy supplies: indeed, energy production from green sources contributes to creating greater energy autonomy and, at the same time, it helps protect the environment.



Thanks to its research, **technological innovation**, internationally-renowned operational excellence, and the hard work of almost **7600 people**, Enel Green Power looks to the future fully aware of its **potential for growth**, both in terms of its size and operational performance. Enel Green Power invests in new businesses and technologies so as to improve its flexibility and performance, such as the integration of **storage systems** into renewable plants and the combination of technologies using different sources in the same plant (**hybridisation**).

The company is eager to step into new markets, as demonstrated by its recent entry into the markets of Zambia, Indonesia, Germany, Russia, Australia and Ethiopia, positioning itself as one of the main players in these areas that represent **a strong potential for growth**.

With its international experience, Enel Green Power also develops custom projects to offer companies the best solutions when it comes to energy generated by renewable sources. Clean energy and sustainable projects, competitive costs and tailor-made solutions are the main benefits of the **Power Purchase Agreement (PPA)**, tools capable of building **strong, long-lasting partnerships with business and industrial clients**.

Enel Green Power is also one of the founding members of **RES4Africa Foundation**, the association founded in 2012 to promote renewable energies and the spread of know-how on the African continent.

\* In terms of installed capacity of private operators.

\*\* Data at 31 December 2018.



# Our business is sustaining the future.

Since 2013, Enel Green Power has implemented a strategy that **incorporates sustainability in the value chain processes** of its business: for this purpose, it has set out its own model of **Creating Shared Value (CSV)**.

The model works on two levels: on one level, it has identified action areas that could potentially be compatible with the strategies and objectives of Enel Green Power; on the other hand, the application of the model throughout the value chain has generated a series of best practices, creating opportunities for the company, the community and the environment and, at the same time, turning actions that were first applied sporadically into common practices, by creating models that make our business increasingly sustainable.

This forms the framework for the “Sustainability Pillars”. These set out activities and projects in our sites, plants and offices in a structured way in line with an approach based on measurement - mitigation - offsetting, that is applied at an environmental, economic and local community level. Thanks to this monitoring process, performance impact is mitigated and monitored throughout all the phases of the project. Indeed, the implementation of this approach begins with an analysis of the economic, social, environmental and cultural contexts at the Business Development stage to avoid certain impacts; at the Engineering and Construction stage, the sustainable site model is implemented. This entails measuring the impacts and their pre-emptive mitigation by applying sustainable design solutions in line with the circular economy principles.

Sustainability during the Operations & Maintenance stage, lastly, focuses on the creation of direct and indirect employment opportunities and on actions that increase operational efficiency while respecting the sustainable plant model.

In line with this approach, all the activities (from the development of a project to the launch of operations) are based on an ongoing dialogue with stakeholders and the analysis of the local area's needs. As a result, the company identifies effective measures to meet local needs corresponding with the company objectives.

The same **system of corporate governance** of the company is structured into principles, rules and procedures designed to guarantee maximum accuracy and transparency when managing the business and creating value for the shareholders and other stakeholders.

Enel Green Power bases its operations on fundamental ethical principles that reflect the standard of conduct required from all those who work with and within the company.

Another focus area for Enel Green Power is protecting the **biodiversity** of the areas where it operates; this is why each action performed in the ecosystem is associated to specific initiatives such as monitoring programmes, research projects and social and environmental studies.

Since 2010, the management of **environmental issues** in Enel Green Power has followed a structured approach thanks to the Certified System of Integrated Health, Safety, Environment and Quality



# Accessibility

Management, which allows for environmental risks, from a life-cycle perspective, to be assessed; in this way, it is possible to enact measures designed to prevent, mitigate and manage these risks in all the stages of the value chain.

In 2015, Enel drew up a specific policy to be used as a benchmark and guide for all of the Group's biodiversity protection initiatives in the generation, transmission and distribution of electricity, complementing the principles of the Group's environmental policy. The policy's aim was to contribute to meeting the objectives of the United Nations Convention on Biological Diversity (CBD), the 2011-2020 Biodiversity Plan and the related Aichi targets.

In this regard, the management of supplies and contracts is a fundamental element: this is why the processes for the qualification and selection of partners are in line with **global models** for the assessment of the **Sustainability Requirements of companies** regarding Health and Safety, the Environment, Human Rights and Ethics, set by Enel Group.



## **The home of innovation in Passo Martino**

*The laboratory in Passo Martino (Catania) is particularly important for achieving progress in innovation projects. Here, various types of indoor and outdoor tests are performed to gauge the performance of the photovoltaic modules purchased by Enel Green Power for its plants, and that of other modules with innovative technologies. Passo Martino was also where the Enel Innovation Lab project was launched to encourage research and innovation in the energy sector by establishing a technological campus and a business accelerator for young entrepreneurs that hosts start-ups and local, national and international research centres. The campus boasts a CNR laboratory, focusing on microelectronics and micro systems, which participates in many major projects. In 2017 the renovation of the 3SUN factory in Catania began, a manufacturer of photovoltaic modules. It has been refitted, bringing it in line with the modern standards of the smart factory (Industry 4.0) for the production of two-sided panels with heterojunction hybrid technology. These will increase the production and the life cycle of the products, and improve the operational efficiency of the plants. The module line was completed in 2018, while the cell line will be completed within 2019. In 2018, Enel Green Power approved another investment for the 3SUN roadmap, that will improve the efficiency of the PV panel, also using new sustainable energies.*



# Innovation as a primary source of energy.

Every year, Enel Green Power uses a significant portion of resources to foster innovation, an essential tool for the Group's sustainable growth, always seeking to create shared value.

In line with the group strategy, innovation activities aim to remain competitive in the energy market in order to hold onto the leading position in the market. Four main pillars set out the innovation strategy of Enel Green Power:

- Being competitive means harnessing technological innovation to catch up to and anticipate the most innovative trends. Moreover, being competitive means being more efficient by improving all our processes, through projects based on digitalisation and automation across the entire value chain, from the design and construction phase to the operation of plants;
- Growth is another key pillar within the innovation strategy. We are investing in projects aimed to increase the Enel Green Power portfolio, both in terms of new technology, such as marine energy, and upgrades of the technologies already in use;
- Innovation for Enel Green Power also means following new unexplored paths, anticipating the future trends. We investigate future scenarios, disruptive opportunities that have the potential to be successful and change how the renewable energy sector is currently organised;
- All innovation activities have a common ground which we use as a foundation for the future: the Innovability concept. Innovability means innovating in a sustainable manner that is always focused on meeting the needs of the clients, communities and the environment in which we operate. The linear economy is over: circularity is needed to prevail, from the design phase, to avoid negative impacts by optimising the use of resources.

# Made-to-measure energy.

Thanks to its global experience in the renewable technologies market, Enel Green Power has created a sustainable social and economic development model in which its clients also play an essential role, through medium and long-term partnerships.

Enel Green Power offers **custom solutions for supplying electricity** to companies, guaranteeing competitive costs as a result.

Through the **Power Purchase Agreements** (PPA), Enel Green Power not only intends to offer energy supply contracts, but also to build strong and long-lasting partnerships with its business and industrial clients.

The PPAs offer the security of purchasing energy produced by specific renewable plants at a pre-set price for the medium and long term, with no initial capital investment required. The structure and type of the contract to be established are specified together with each client to ensure that it best meets all the specific local and global requirements in compliance with the legislation in force, and with the goal of taking advantage of the best market opportunities on offer.

The clients who have already signed a PPA include **many leading companies** in different sectors: automotive, food, technology, chemical, cement and mining, but also banks and companies operating in the telecommunications and retail sectors.

Thanks to its proven experience, Enel Green Power offers a **flexible approach**, ensures benefits stemming from economies of scale and risk coverage, and guarantees foreseeable costs. Leadership in the areas of plant construction, management and maintenance results in the peace of mind of benefiting from a reliable supply of energy from an appropriate mix of renewable sources.

## On-site PPA

The design and construction of a renewable plant **directly on the client's site**. Enel Green Power remains the owner and manager of the plant, and covers the related installation costs with no further expenses. The energy produced is directly supplied to **the private network** of the client through a physical connection.

## Sleeved PPA

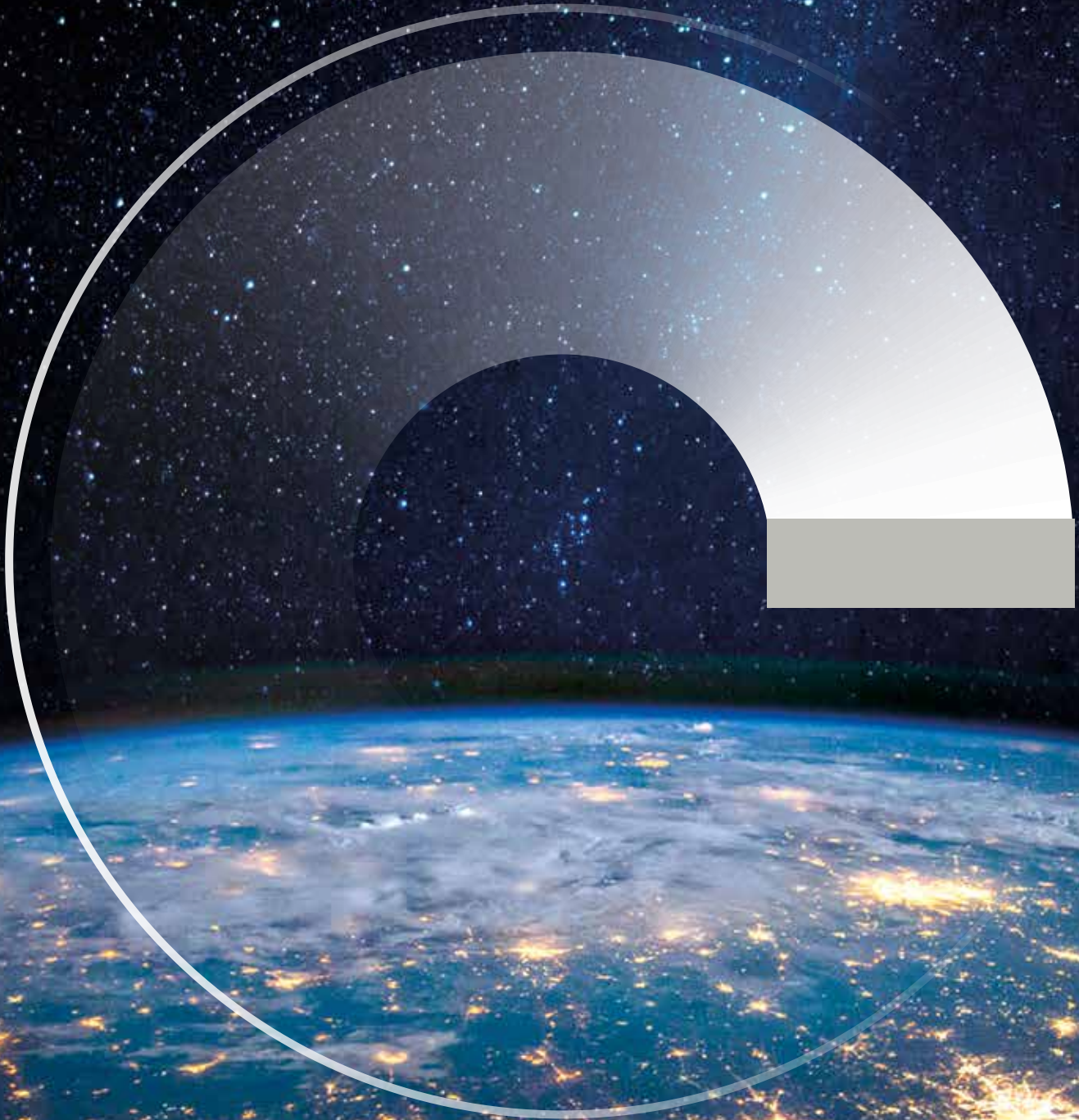
The client is linked to an Enel Green Power renewable energy **plant, located in a different area from the site of consumption**. In this case the energy produced is introduced into the **public network**. The energy is supplied to the clients' site by using the local electricity grid and - depending on the circumstance - through a different, approved supplier.

## Virtual PPA

The energy produced by the renewable plant designed, built and managed by Enel Green Power is released at a pre-established point, usually in a **market hub** that is not the client's pick-up point. The "strike-price" and reference market is set and vice versa. Where possible, the client can maintain the benefits related to the renewable energy introduced into the grid (for example the RECs certificates or Guarantees of Origin).



 A future in need  
**of a complete overhaul.**





The current energy panorama is characterised by a strong **growth in consumption** and by a close focus on issues related to **climate change**.

According to the International Energy Agency (IEA, WEO 2018), **by 2040 the global demand for primary energy will rise by 77%** compared to 2000, and CO<sub>2</sub> emissions by 55% over the same period.

This context poses a series of significant challenges for those operating in the energy field: ensuring an adequate level of **safety of supply, environmental and economic sustainability** and, therefore, effectively meeting the increasing world energy demand.

In such a complex scenario, still heavily dependent on fossil fuels, renewable energies offer a practical, sustainable solution.

Their exponential growth in the last few years has laid the foundations for a further increase and penetration of the electricity generation mix: according to IEA, by **2025** RES technologies will account for **32% of the world demand, and over 40% in 2040**.

The growth of renewable energies, mainly driven by wind and solar technologies, will bring the installed capacity **from 2,337 GW recorded in 2017 to over 6,500 GW in 2040\***.

These resources are now expected to play a leading role in the world's new energy plans, a trend that is becoming increasingly obvious thanks to the ever-growing number of development programs and the increased penetration of renewable energies at a global level.

As **leader in this sector**, Enel Green Power will further invest in its own **portfolio of renewable plants, already highly diversified** in both technological and geographical terms.

# The Enel Green Power technologies.

## Managed capacity (MW)

(Data at 31.12.2018)

	Tot	Hydro	Wind	Geo	Solar & Other
Australia	275	-	-	-	275
Canada	27	-	27	-	-
Italy	54	-	-	-	54
Mexico	1,716	-	627	-	1,089
USA	2,147	255	1.791	72	292
	4,218	255	2,445	72	1,446

## Installed capacity (MW)


(Data at 31.12.2018)

	Tot	Hydro	Wind	Geo	Solar & Other
Argentina	1,363	1,328	-	-	35
Brazil	2,931	1,269	842	-	820
Bulgaria	42	-	42	-	-
Canada	76	-	76	-	-
Chile	4,723	3,548	642	41	492
Colombia	3,177	3,093	-	-	84
Costa Rica	81	81	-	-	-
Greece	307	19	200	-	88
Guatemala	164	164	-	-	-
India	172	-	172	-	-
Italy	13,976	12,411	772	762	30
Mexico	299	53	246	-	-
Panama	362	300	-	-	62
Peru	1,104	792	132	-	179
Romania	534	-	498	-	36
Spain	6,525	4,762	1,750	-	14
South Africa	522	-	199	-	323
USA	2,845	25	2,618	-	202
	<b>39,203</b>	<b>27,845</b>	<b>8,190</b>	<b>803</b>	<b>2,365</b>





# Energy from the water.



Energy generated by water **remains the primary renewable source for the production of electricity on a global level**. With 1,114 GW of installed capacity\*, it provides **16% of all the electricity on the planet**. For Enel Green Power, hydroelectricity is a **key technology**, both due to the number of plants managed and also to the amount of energy produced.

As a matter of fact, figures speak for themselves: **67TWh of energy generated in 2018** (on the managed perimeter), which accounts for more than 60% of the company's total energy production\*\*.

The hydroelectricity portfolio of Enel Green Power, integrated into Enel assets since 2016, reached 28 GW of installed capacity, with about 800 plants in 13

countries. This number has risen over the last three years, thanks to new plants in Central and South America – El Quimbo in Colombia, Apiacas and Volta Grande in Brazil and Chucas in Costa Rica. Moreover, Enel Green Power's consolidated experience in Operation & Maintenance allows to manage the activities of its wide range of plants and dams. As a matter of fact, in 2018 EGP launched the Hydro Power Efficiency Revolution project that, thanks to digitalisation and automation, along with predictive diagnostics enhancements, will result in 30% of costs saving in five years for the company.

Additionally, the company's objective is to continue **increasing its capacity on a global level**, by renovating the existing plants and setting up brand new projects from scratch.

\* Source: World Energy Council; REN21, Renewable Global Status Report, years: 2004-2017.

\*\* (Data at 31 December 2018).

# Energy from **the sun.**



Solar energy is the most widespread energy source, available everywhere and in quantities that considerably exceed the energy requirements. According to the estimates made by the WEO, in the near future, photovoltaic solar power will see a **strong growth**, leaping from the 150 GW total of 2014 to approximately 4,600 expected in 2050\*.

Nowadays, Enel Green Power manages almost 4 GW of solar power, and has started production in Oceania, thanks to the largest PV plant in Australia (Bungala, 276 MW), as well in Colombia, with the largest plant in the country (El Paso, 84 MW).

Consequently, 2018 was a record-breaking year for Enel Green Power in terms of solar technology, with almost 1.5 GW of additional capacity built. This is an extraordinary development, with a special mention to Mexico, where Enel Green Power began the operations of Villanueva (754 MW), the largest solar facility of the entire American continent.

In 2019, growth will spread to other new countries, such as Zambia, and will pick up again in developed

markets such as Spain.

Moreover, the company is focusing on bringing photovoltaic solar power to the world of **Industry 4.0**, thanks to the **innovative 3D digital design** of the plants, highly automated on-field construction process and automated maintenance activities. Indeed, photovoltaic modules have started to be installed by robots capable of **manoeuvring in very hostile environments**, ensuring high quality standards, traceability of the materials, and an **ultra-high level of precision**. The entire innovation project allows for construction time to be reduced by 30%, the production costs to be limited and the peaks of more specialised on-site personnel to be optimised. At the same time, drones and rovers are used for inspections and routine maintenance, thus maximising the production and minimising risks, while a thorough 3D design process allows to easily locate the elements requiring action. In this way, the company can already be more competitive in the development phase, and the continual growth in solar technology is required.

\* Source: World Energy Outlook 2014, Technology Roadmap.









# Energy from **the wind.**

Wind power continues to amaze the industry, with its **rapid expansion**; at an international level, the wind industry continues its rapid growth. Statistics show that more than 10% of new capacity was built every year, from 2013 to 2017 (539 GW).

Enel Green Power is one of the main players in wind energy at a global level: it is active in 13 countries and is a model company in terms of efficiency and expertise in the field of plant management.

The **installed capacity** as of 2018 is significant: **3,262 MW just for Europe** (Spain, Italy, Greece, Bulgaria and Romania), **2,489 MW in Central and South America** (Mexico, Chile, Brazil and Peru), **4,539 MW in Canada** and the **United States**, and **371 MW** between **India** and **South Africa**.

The growth of wind power will continue also

in the years to come, when Enel Green Power will begin operations in Morocco and Russia, while continuing to increase the installed capacity in the United States and South America, as well as in India.

The secret of its success lies in the great focus the Company places on **technological innovation**, digitalisation, **skills pooling** and **training**. New strategies for optimising maintenance, based on data-driven and technical expertise, smart glasses for augmented reality, digitalisation of the check lists for inspections, and the use of drones for checks at a height are only a few examples of how technology can have a positive impact for best results. Predictive maintenance is also one of the main levers for Enel Green Power's excellence in wind power operation and maintenance, with more than 70% of major works performed on wind turbines resulting from predictive alerts, and a significant saving in maintenance costs and increased production.







# Energy from **the earth.**



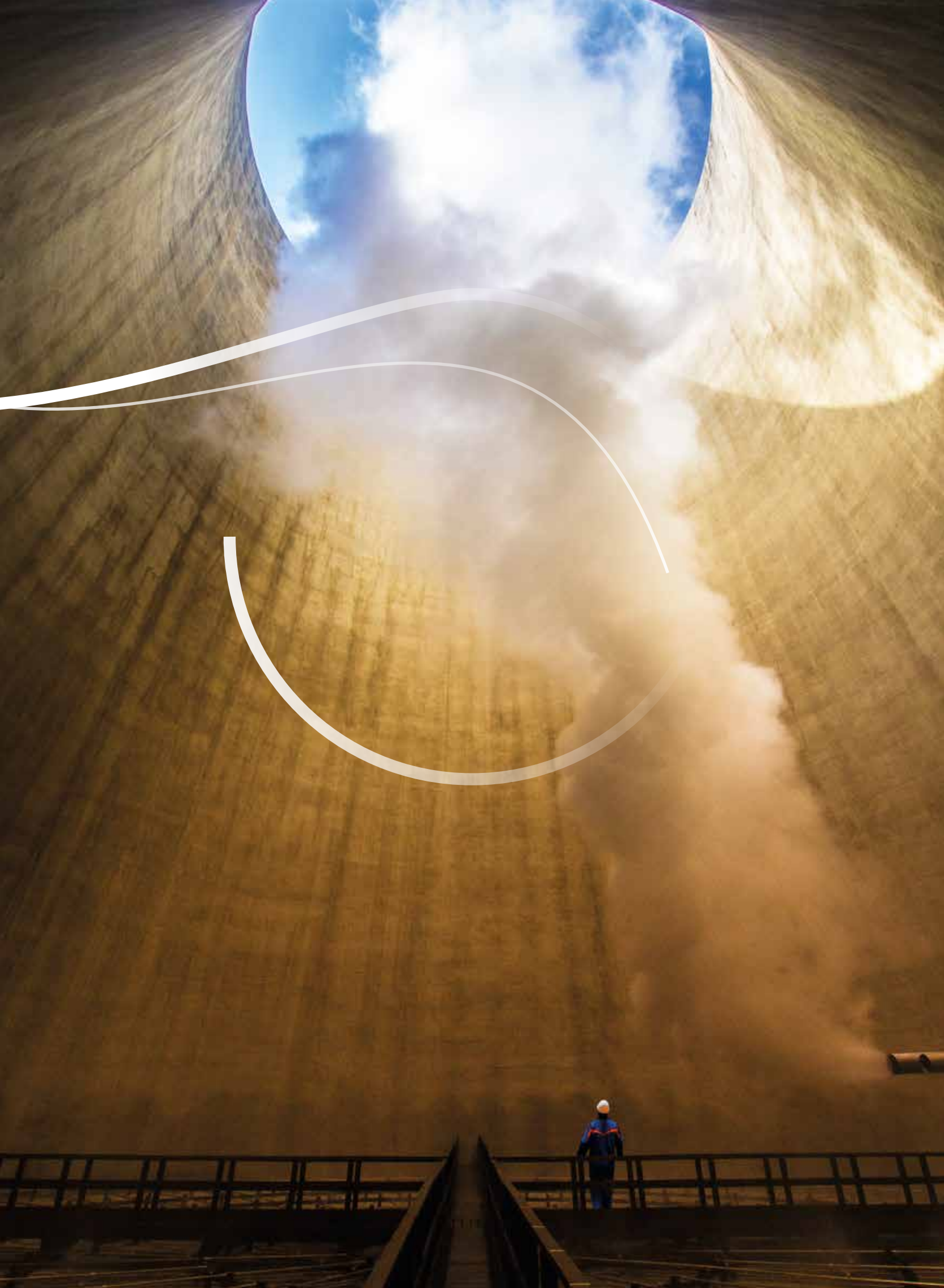
Geothermal energy is an important resource that meets the need to protect the environment and ensure sustainable development: it is an energy source that “works” constantly and reliably. In terms of development, on an international level 1,400 TWh of electricity per year could come from geothermal power by 2050, up from 67 TWh currently.

With an installed capacity of **875 MW**, Enel Green Power is one of the **world leaders in this technology** and boasts **years of experience** and skills which it uses to pursue an international development plan. In particular, the company is the **only operator in the world capable of covering the entire cycle**, starting from exploration, all the way to the operation of the plant.

**Italy** was the first country in the world where the heat of the earth was used on an industrial scale - the **first power plant** in the world was installed **in 1913 in Larderello in Tuscany** - and to date it is

still one of the main producers of geothermal energy, with a production of almost 6 TWh per year from direct steam **high-enthalpy** or flash plants.

In North America, Stillwater, Salt Wells and Cove Fort are examples of **low-enthalpy geothermal plants**. They are much more popular on a global level and, thanks to the binary cycle technology, transform heat into electricity at a low temperature (130-150°C), a characteristic of many liquid-dominated hydrothermal sources. Instead, in South America, Enel Green Power contributed to the commissioning of the first geothermal plant in operation in the continent, Cerro Pabellon; a 41 MW high-enthalpy binary cycle plant located in the Chilean desert of Atacama at an altitude of 4500 m, a true one of a kind technological and human feat.



# Enel Green Power Global Footprint





## Countries of presence

## Countries with advanced stage of development

SPAIN  
6,525 MW

ITALY  
13,976 MW

GREECE  
307 MW

ROMANIA  
534 MW

BULGARIA  
42 MW



SOUTH AFRICA  
522 MW

INDIA  
172 MW

AUSTRALIA  
27 MW

# Europe

## ITALY

With an installed capacity of **14,431 MW**, Enel Green Power is the leader in three of the five technologies – geothermal, hydroelectric and solar – and committed to increase its total installed capacity considerably, consolidate its leadership position and extend its presence.

In particular, Enel Green Power has a long lasting tradition in the **hydroelectric technologies** throughout Italy, for a total of **12,418 MW of installed capacity**. It also has 33 geothermal plants, located in Tuscany, providing power of 761 MW, capable of ensuring an annual production of over 5 TWh.

In the **solar segment**, the Company has made a strong effort to develop its activity, by increasing its installed base and consolidating strategic partnerships with international leading technology partners in the industry.


## SPAIN

Enel Green Power is present with a total installed capacity of 6,384 MW, resulting from the integration of the renewable activities of Enel and Endesa. With an important presence in the **hydroelectric sector**, Enel Green Power manages **144 plants** with a total installed capacity of 4,752 MW. The company also operates in the field of **wind power**, with 1,618 MW distributed over **78 plants**. The mix of generation types is completed by the presence of **5 photovoltaic plants** for a total of 13.5 MW.

## GREECE, BULGARIA, GERMANY

Enel Green Power is present in Greece (its headquarters are in Athens) with an installed capacity of 307 MW including **wind parks** (200 MW), **mini hydro plants** (19 MW) and solar plants (88 MW) located throughout the territory, with an added **2 wind power plants in Bulgaria** with an installed capacity of 42 MW and a battery storage system of 22 MW in Germany. Within 2019, a capacity of 154.1MW of wind parks expected to be added in the Greek mix.






Enel Green Power has operational plants in Italy, Spain, Greece, Romania and Bulgaria, with **21,304 MW installed** and other projects currently under development.





# United States and Canada



Enel Green Power is present in the United States and in Canada through Enel Green Power North America, which develops and manages wind, geothermal, hydroelectric and photovoltaic power plants.


Headquartered in Andover, Massachusetts, with a presence in 24 U.S. states and two Canadian provinces, Enel Green Power operates more than 100 plants in North America, with a managed capacity of exceeding 5 GW. Enel Green Power was the fastest growing renewable energy company in the U.S. in 2017, and has accomplished a more than four-fold increase in managed capacity from 2014 to 2019. It is the largest wind operator in Kansas, and the second largest operator in Oklahoma.

The efficiency of Enel Green Power plants in North America comes from the experience of our Operation & Maintenance teams and from the increasingly widespread use of innovative solutions: from drones to infrared sensors, from 3D models to ultrasonic detectors. Sustainability is embedded across our entire value chain from greenfield development to long-term operations, and this year we extended our commitment by powering 100% of the facilities managed by Enel Green Power in the U.S. with renewable energy certificates.

Enel Green Power is a leading provider of renewables to corporate customers in North America. Our renewable energy helps power companies including Facebook, Google, T-Mobile, Anheuser-Busch, Adobe, Bloomberg, Kohler, General Motors, Comcast Spectacor, Starbucks and Mondelez International. Through Power Purchase Agreements (PPAs) with these companies, we not only enable them to respond to the “green” demands from their stakeholders, but we also foster the growth of a virtuous cycle of sustainability.



# South America




Hydro, wind, solar and geo: all the technologies are utilised and managed in South America.

In South America, Enel Green Power is active in Chile, Brazil, Peru, Colombia and Argentina, and has come to play an important role with over 13.3 GW of renewable capacity with its various technologies.

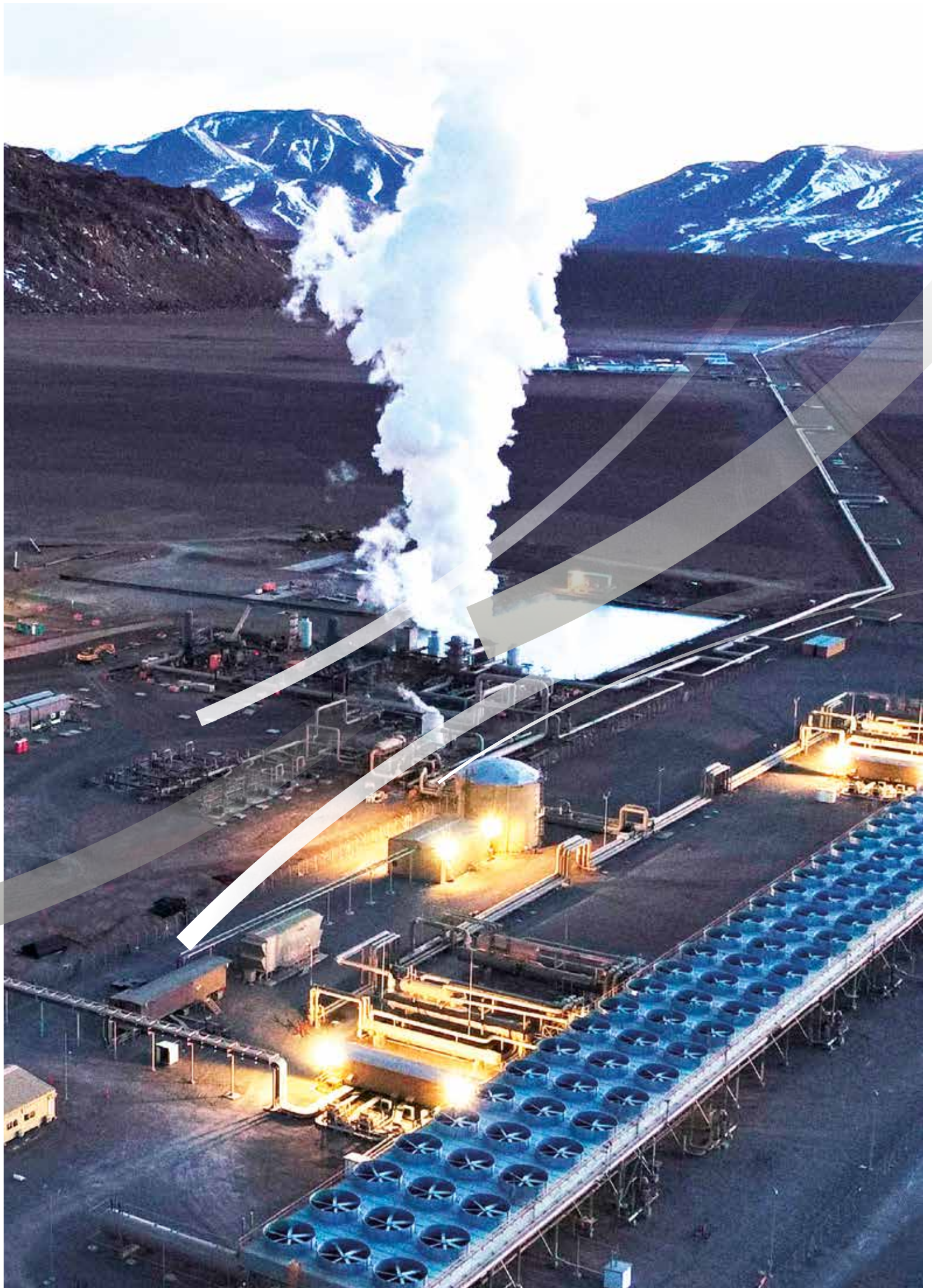
During the last few years, the growth and the development of solar and wind power plants has formed the basis of business in South America. Between 2017 and 2018, approximately 2 GW of additional capacity was connected to the grid, of which approximately 1 GW was solar power, and over 500 MW wind power. In this period Cerro Pabellon began operations, the first geothermal plant in South America and the world's first large-scale plant of this kind to be built at 4500 meters above sea level.

Among the connected plants we can find Rubi (180 MW) and Wayra (132 MW), a PV park and a wind farm respectively, which are the largest in terms of technology in Peru and Enel's first solar and wind farms in the country, as well as El Paso (86 MW), Enel Green Power's first solar power plant in Colombia and the largest solar plant in the country.

The plant pipeline corresponds to approximately 3 GW for 15 plants whose construction sites are starting to open in recent months, and which will be connected to the grid between 2020 and 2021. Between the end of 2018 and the beginning of 2019, the construction of Lagoa dos Ventos and São Gonzalo began. Lagoa dos Ventos is a wind farm in the Brazilian state of Piauí, and with a capacity of over 700 MW, it will be Enel Green Power's largest wind farm in South America and one of the ten largest plants in the world for installed power. São Gonzalo, still in Piauí, is a solar plant of over 600 MW, which will also be the largest solar plant in South America and the second for Enel Green Power after Villanueva in Mexico, with a capacity of over 800 MW. These latter two PV parks are two of the largest in the world.












# Mexico and Central America



Enel Green Power manages more than 3.3 GW of renewable plants in **Mexico, Costa Rica, Guatemala and Panama.**

Enel Green Power operates in four countries in the region: Mexico, Costa Rica, Guatemala and Panama. In total, it has 29 plants, taking into account both those that are in operation and those that are still in the construction phase. It has a diversified generation portfolio in three technologies: solar, wind and hydroelectricity.

Growth in the region has been very significant in recent years, especially in Mexico, where Enel Green Power is the leading renewable energy operator. The company has been the central figure in the three long-term auctions organised by the national government to promote renewable energy. Precisely from these auctions came emblematic projects such as Villanueva, which with its 828 MW is the largest Enel Green Power solar plant in the world, as well as the largest in the Americas.

Growth in the country not only occurs through these auctions, but has been complemented with projects designed for the free market, with clients from the C&I sector.

A good example is Magdalena II, a 220 MW solar plant still under construction, one of the first renewable plants created to meet the needs of private clients in the regulatory market that emerged after the Energy Reform. It is also worth highlighting the four phases that make up the Amistad wind complex, located in the north of the country. When construction is completed in 2020, its 549 MW will make it the largest wind power plant in Mexico.

Guatemala and Costa Rica add approximately 240 MW of hydroelectric installed capacity. In Panama, with both hydroelectric and solar plants, a facility stands out for its dual importance.

On one hand, because the 300 MW capacity of the Fortuna hydroelectric power plant makes it the largest generation facility in the country, and on the other, because Fortuna is located in an area that is considered a world biosphere reserve, becoming a perfect example of a sustainable operation.



# Africa

Currently, Enel Green Power is mainly active in **South Africa**, where it manages **5 solar photovoltaic parks** and **2 wind power farms**, with over 500 MW of installed capacity.

In addition, Enel Green Power was awarded five wind projects, with a capacity of 705 MW, **bringing the total power acquired in South Africa through public contracts to just above 1200 MW.**

The first project, Nxuba (141 MW), is under construction. Enel Green Power has extended its operations beyond South Africa, with significant success in the African continent, thanks to projects in **Zambia, Morocco, Tunisia, Algeria**, the **East African corridor** and some countries in **West Africa**.

In 2016, Enel Green Power was awarded a 34 MW photovoltaic project in Mosi-oa-Tunya, in **Zambia's** Scaling Solar Project Programme. The project, named Ngonye, is under construction and will be completed in April 2019.

In Ethiopia, Enel Green Power, in partnership with the Ethiopian infrastructure company Orchid Business Group, has been awarded the right to develop, build and operate a 100 MW PV plant in Metehara, about 200 km east of Addis Abeba.

In **Morocco**, Enel Green Power, in partnership with the Moroccan energy company Nareva Holding (Nareva) and the German wind turbine manufacturer Siemens Wind Power, were chosen as the bidders of choice in the second phase of the wind integrated project tender.

The total capacity of the five awarded wind projects is 850 MW, and the first project, Midelt (180 MW), is under construction.

Enel Green Power continues to closely monitor government policy and developments in the so-called **Eastern African Corridor**.

Kenya's low electrification rate and abundant natural resources, coupled with Enel Green Power's interest in rural electrification, creates opportunities for development in wind, solar, geothermal and hydroelectric power technologies. Infrastructure development is crucial in connecting rural communities, and so this kind of intervention would boost development in the area. The complex regulatory framework and the funding provided by various international institutions have already led to the opening of an office in Nairobi, to coordinate all the development activities in the area.









# Asia and Oceania

Enel Green Power operates in the Asian continent in **India, Indonesia** and **Singapore**, and took its first step in Australia in 2017, where it is based in Sydney, developing the 275 MW Bungala Solar photovoltaic project.

Enel Green Power is present in **India** with a generation fleet of 3 wind power farms with total capacity of 172 MW, and premises in Gurgaon (New Delhi) and Bangalore. In 2018, Enel Green Power was awarded an energy supply contract for a 285 MW wind farm in the State of Gujarat. The project is under construction.

In **Indonesia**, Enel Green Power, in partnership with PT Optima Nusantara Energy, was awarded exploration and development rights for a 55 MW geothermal project in Way Ratai (Sumatra island).

In **Australia**, together with the Dutch Infrastructure Fund (DIF), Enel Green Power is developing the 275 MW Bungala Solar photovoltaic project. The first 137.5 MW section is already in operation, while the second section will be completed and running by mid-2019. Moreover, Enel Green Power has been awarded an additional 34 MW photovoltaic power plant in Cohuna. Enel Green Power is based in Sydney.

Its presence in Asia also includes an office in Singapore, to monitor developments in the South East Asia area.



[enelgreenpower.com](http://enelgreenpower.com)