

Achieving 100% renewable electricity in Europe

5

VIRTUAL POWER PURCHASE
agreements (VPPAs)

3

DEVELOPERS:
Acciona, EDP Renewables,
Enel Green Power

6

SOLAR AND WIND
PROJECTS
located in Spain

>275

MEGAWATTS
of clean energy

~113 000

PASSENGER VEHICLES
removed from the road
annually*

100%

OF ELECTRICITY PROCURED
in our European operations
addressed

How our VPPAs work

Novartis entered into renewable energy agreements with Acciona, EDP Renewables and Enel Green Power for a portfolio of wind and solar projects in Spain. These contracts, also known as virtual power purchase agreements (VPPAs), guarantee a stable, long-term price for electricity from the clean energy projects helping to transform Spain's electrical grid.



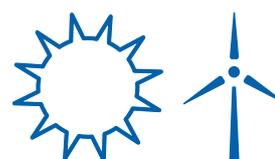
Novartis operations

Our European operations continue to buy electricity from local grids.



Local grid

Local grids, in many cases, still have a mix of fossil fuel generation, though some are cleaner than others.



Renewable sources

We apply the renewable attributes from our wind and solar electricity purchase, via the VPPAs, to our European electricity consumption to address our carbon footprint and help achieve 100% renewable electricity for our European operations.

* Greenhouse gas emissions equivalency; www.epa.gov/energy/greenhouse-gas-equivalencies-calculator

For more information:

www.novartis.com/our-company/corporate-responsibility/environmental-sustainability