

Electric grid paris

Grids have formed the backbone of electricity systems for more than a century, delivering power to homes, factories, offices and hospitals. And their importance is only growing. The rapid adoption of new technologies such as electric cars and heat pumps means electricity is expanding into realms previously dominated by fossil fuels, increasing the demands on grids. Meanwhile, countries are adding renewable energy projects at a fast pace - requiring more power lines to connect them and high-functioning electricity grids to ensure reliable supplies for end customers.

This new IEA special report, *Electricity Grids and Secure Energy Transitions*, offers a first-of-its-kind global stocktake of the world's grids as they stand now. It assesses signs they are not keeping pace with the new global energy economy that is emerging and the risk of them becoming a bottleneck for efforts to accelerate clean energy transitions and ensure electricity security.

The special report examines the urgent upgrades required not only to physical infrastructure but also to the way grids are planned and managed - quantifying the costs of delayed action. And it provides key recommendations for policy makers, highlighting what is necessary in areas such as investment, regulation and planning.

IEA (2023), *Electricity Grids and Secure Energy Transitions*, IEA, Paris <https://>, Licence: CC BY 4.0

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In its capacity of France's transmission system operator, RTE is a public utility whose role is to supply electricity around the clock, providing the same quality of service across the country with the support of its 9,500 employees. Every second of the day, RTE controls power flows while constantly balancing supply and demand. RTE maintains and expands the capacity of the high and ultra-high voltage grid (ranging from 63 000 to 400 000 volts) amounting to over 100 000 kilometres of overhead lines, over 6 000 kilometres of underground lines,

2,800 solely operated or jointly operated substations and 51 cross-border lines. France's power grid - the most extensive in Europe - is interconnected with 33 countries. As a key industrial player in the energy transition, RTE is optimising and transforming its grid with a view to accommodating more power generation facilities, irrespective of future energy choices. The public authorities rely on RTE's technical expertise and reports to inform their decisions.

Audience measurement services are used in order to generate visitor frequency statistics for improving the website. We use third-party Matomo trackers to anonymously measure our website's audience.

Data driven is a third party service that allows RTE to gather statistics on candidates journeys on its website. It also allows RTE to evaluate the efficiency of the services provided by its recruitment partners.

Although a decree still has to set out the timetable, content and consultation procedures for the Network Development Plan, Enedis has prepared a preliminary document as part of its transparency and pedagogic approach. The aim of this document is to contribute to the debates surrounding the next French multiannual energy program or NECP (in French PPE: Programmation Pluriannuelle de l'Energie) and to launch a broad participatory consultation process with the distribution network users committee (CURDE: Comit? des Utilisateurs du R?seau de Distribution) in preparation for this Plan. This preliminary report, the first of its kind for the company, provides a medium- to long-term perspective on the New Electric France for 2027 and 2032.

It is important to specify that this is not the "Network Development Plan" as such. This preliminary document has not been submitted to public consultation. However, it will enable us to gather feedback over a long time period, which will contribute to the official "Network Development Plan".

Connections are carried out in line with the evolution of external demand, while reinforcement and renewal are optimised by Enedis as the network operator in the service of the community.

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