

# Capacity registry for RTE

The French power capacity mechanism is unique in Europe and a key tool for France's security of supply encouraging adequate investment in generation and demand-response capacities. Powernext developed and operates an electronic registry solution for RTE that enables capacity guarantee certificates to be booked and transferred between market participants.

## Presentation of the solution

Supporting the French capacity market for power - Following the launch of the French power capacity mechanism in 2015, Powernext has developed and operated an electronic registry solution for RTE (France's electricity transmission network) that enables capacity guarantee certificates to be transferred between market participants.

This capacity mechanism is unique in Europe and a key tool for France's energy transition. With a higher share of renewables linked to the grid, peak capacity tends to exceed off-peak capacity. The French capacity mechanism is designed to address this issue, encouraging adequate investment in generation and demand response capacities, while also incentivising a modification of consumption behaviour during peak periods. In practical terms, producers and demand response management operators are awarded capacity certificates (each representing 0.1 MW) corresponding to the available power capacity they can provide to the grid during peak periods. Concurrently, obligations to acquire capacity guarantees are assigned to suppliers based on their customers' actual consumption during peak periods.

Since 2015, the service offered by Powernext to RTE has enabled market participants to monitor their capacity balance accounts and transfer certificates between each other. 2016 has been a key year for the French capacity system, with the first capacity auction held in December 2016. The EPEX SPOT auction platform is connected to the RTE registry, designed and operated by Powernext.