

# Grid integration Hungary





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### E.ON Opens New Substation to Support Renewable Energy Integration

The development aims to improve grid efficiency and reliability while supporting the integration of renewable energy sources, particularly solar power, as Hungary advances toward greener energy solutions.

### Energy in Hungary

integration process is the integration of the balancing markets and the accession by TSO MAVIR to the EU balancing platforms. This degree of integration would not be feasible without the interconnected grid. Hungary has made constant efforts to enhance its interconnections, resulting in the Hungarian power



### EU Funding for Hungarian-Slovak Electricity Grid

The European Commission will finance the 'Danube Ingrid', a smart electricity grid project in Hungary and the Slovak Republic, in the amount of EUR 102 million. This project will improve network management and increase the quality and security of supply for all market participants in the two countries.

### The Electric Power System

Hungarian Power System 8 Cooperation of TSO and DSOs Main challenges: - Demand side and



renewables integration - handling multiple aggregators  
Main cooperation areas: -  
Congestion management (both real-time and in operational planning/outage planning) -  
Participation of distributed assets in frequency and non-frequency related services



#### APPLICATION SCENARIOS



### Hungary's regulator backs large-scale electricity grid ...

In the next four years, the Hungarian electricity TSO, MAVIR will spend more than 1 billion euros on the modernisation, capacity expansion and reconstruction of the grid to keep up with the expected increase in ...

### Hungary: First Publication Procedure for Power Plant Connection ...

The new unified procedure for connection to the transmission grid is expected to be cyclical, with a six-monthly frequency, with two ways to access free capacity: a "publication procedure" or an "individual procedure".



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As Hungary works towards meeting its climate goals, the substation will play a critical role in increasing grid capacity and facilitating the integration of renewable energy ...





## Hungarian EU Presidency: electricity grid

Developing resilient, sustainable electricity grids that are ready for the future is the foundation for the energy transition across the European Union, Attila Steiner, the state secretary for energy and climate policy, said at an electricity grid development conference, hosted in the framework of Hungary's presidency of the Council of the



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## Hungary's regulator backs large-scale electricity grid investments ...

In the next four years, the Hungarian electricity TSO, MAVIR will spend more than 1 billion euros on the modernisation, capacity expansion and reconstruction of the grid to keep up with the expected increase in consumption and the boom of solar PV.



## Hungarian Green Energy Goals: Industrial Developments and Grid

Industrial power plants and storage facilities can be connected to the grid by 2030, the Ministry of Energy announced. The current energy storage capacity of only twenty megawatts could increase twentyfold by 2026 and fiftyfold by 2030.



## E.ON Opens New Substation to Support Renewable Energy Integration ...

As Hungary works towards meeting its climate goals, the substation will play a critical role in increasing grid capacity and facilitating the integration of renewable energy sources. In addition to the new substation, E.ON plans to construct two high-voltage transmission lines, each spanning over 100 kilometers, in the Bakony region and along

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## SMART GRIDS

As for Hungary, given the current state of smart grid development, the operation of new distribution grid technologies and services, as well as the possibilities of integrating micro-grids into the electricity system can be considered are some of the key aspects and need to be studied during the pilot projects implemented.



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