



Press Release

## **HEDNO Completes Greece's Largest 150/20 kV Substation Capacity Upgrade Programme**

### **Creating New Grid Capacity for Renewable Energy Sources**

HEDNO is completing one of the most significant electricity distribution network modernization projects ever undertaken in Greece, delivering the largest capacity upgrade programme for 150/20 kV Substations in the country's history.

The programme involves the reinforcement of fourteen (14) High Voltage/Medium Voltage (HV/MV) Substations across Greece, adding a total of 725 MVA of new capacity to the Distribution Network. This investment creates significant additional grid capacity, facilitating the connection of new Renewable Energy Source (RES) installations and further supporting the country's energy transition. At the same time, it provides the necessary infrastructure for the connection of electricity storage facilities to the Distribution Network, further enhancing its flexibility and reliability.

The capacity upgrades are being implemented either through the installation of new power transformers or by replacing existing transformers with new units of higher capacity. In parallel, the Medium Voltage side of the Substations is being expanded to enable the connection of new distribution lines and additional RES projects to the Distribution Network.

The project is funded through the Recovery and Resilience Facility (RRF) under Action 16899 of Pillar 1.1 – "Transition to a New Environmentally Friendly Energy Model."

Particularly noteworthy is the fact that the programme is being completed within an exceptionally demanding timeframe. The selection of the Substations and the inclusion of the project in the Recovery and Resilience Facility were completed in July 2022, and in less than four years complex engineering interventions have been

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successfully carried out at facilities with different technical characteristics located in geographically dispersed regions across the country.

Upon completion of the project, the Distribution Network will have a substantially greater capacity to accommodate clean energy, while enhancing security of supply, operational flexibility, sustainable development and the achievement of Greece's national energy objectives.

The following Substations have already been energized and are in operation:

- Ioannina I 150/20 kV Substation – capacity increase of 50 MVA
- Florina 150/20 kV Substation – capacity increase of 50 MVA
- Meliti Ultra High Voltage Station – capacity increase of 50 MVA
- Filippoi Ultra High Voltage Station – capacity increase of 50 MVA
- Eordaia 150/20 kV Substation – capacity increase of 50 MVA
- Megara 150/20 kV Substation – capacity increase of 75 MVA
- Domokos 150/20 kV Substation – capacity increase of 50 MVA
- Pylos 150/20 kV Substation – capacity increase of 50 MVA
- Oinofyta 150/20 kV Substation – capacity increase of 50 MVA

Works at the following Substations have been completed, with energization expected within the year:

- Arachthos Ultra High Voltage Station – capacity increase of 50 MVA
- Skydra 150/20 kV Substation – capacity increase of 50 MVA
- Spercheiada 150/20 kV Substation – capacity increase of 50 MVA
- Trikala Ultra High Voltage Station – capacity increase of 50 MVA
- Magiko (Xanthi) 150/20 kV Substation – capacity increase of 50 MVA

CEO Mr A. Manos stated that:

"Through the largest Substation reinforcement programme ever implemented by HEDNO, we are creating the additional grid capacity needed to support further

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investments in Renewable Energy Sources and electricity storage facilities, while enhancing the reliability and flexibility of the Distribution Network and accelerating the country's energy transition."

The project is being implemented within the framework of the National Recovery and Resilience Plan "Greece 2.0", funded by the European Union – NextGenerationEU.

#### Photos

[Arachthos Ultra High Voltage Station – Switchgear](#)

[Arachthos Ultra High Voltage Station – Power Transformer](#)

[Trikala Ultra High Voltage Station – MV Switchgear](#)

[Domokos 150/20 kV Substation – Power Transformer 2](#)

[Magiko 150/20 kV Substation – MV](#)

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