

## MEGATROL Light

# ABB components fit perfectly into the Kyndby Power Station in Denmark



The Kyndby Power Plant in Hornsherred, Denmark, is the emergency and peak load facility for Zealand. In 2012 the plant needed an upgrade on their existing static starter and excitation.

### Customer needs

The biggest challenge for the Kyndby Power Plant was to find a static starter and excitation unit that fits in the available limited space and matches the existing cables. Furthermore the power plant must be able to start up reliable within minutes and be ready to produce electricity in the shortest possible time.

### ABB's solution

ABB provided the smallest and newest member of the MEGATROL product family, the MEGATROL Light. The MEGATROL Light is small enough to fit comfortably in the available space in the Kyndby Power Plant. Its flexibility comes from its modular cubicles which can be arranged in many different ways and are simply connected together with cables. Even the DC-link connections are made with cables, a total novelty in ABB starter design. With this setup it was not only possible to match to the existing cables but also provide reliable start any time.

MEGATROL Light is able to provide a starting power of up to 3 MW on 2 kV and excitation currents up to 1,500 A on 690 V. The power station operates a 734 MW capacity, distributed on five different production units, the largest being two oil-fired steam power units – peak load facilities each having a capacity of 260 MW. Two oil-fired gas turbine units of 63 MW each constitute the remaining peak load facilities at Kyndby Power Station. Kyndby Power Station also controls a 70 MW gas turbine, which is situated at Masnedø CHP plant. The 63 MW gas turbines at Kyndby as well as the 70 MW gas turbine at Masnedø are now equipped with MEGATROL Light units.

### Customer benefits

This flexibility is one of the many advantages during the execution of the pilot project, the installation of a MEGATROL Light in the upgrade of Kyndby Power Plant in Denmark. Kyndby Power Station, in Hornsherred, is the emergency and peak load facility for Zealand. This means the facility at Kyndby Power Station is now able to be started within minutes if operational irregularities occur in the high voltage electricity grid or problems arise at other power stations.



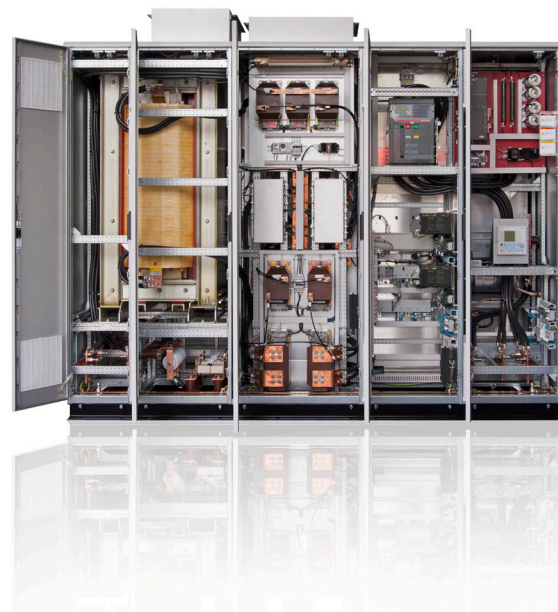
Front view of MEGATROL Light

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Back view of MEGATROL Light