

1 GW ZERO-LOSS ENERGY TRANSMISSION SUPERCONDUCTING CABLE

IRIS - INFN

11.25 KV DC 1 GW



As part of the broader IRIS project, coordinated by INFN, ASG Superconductors will play a strategic role by dealing with the design, construction and qualification activities of a 1GW superconducting cable prototype for research on zero-dispersion electrical power transmission. The cable will have a length of 130 meters and will be made with "high temperature" superconductive material in MgB_2 (Magnesium Diboride). As part of the same project, a device will also be created, again superconductive, to generate high dipolar magnetic fields of high energy saving quality.

The cable - which will be tested in the Salerno facility (INFN, University and CNR SPIN) - is financed, within the framework of the National Recovery and Resilience Plan (PNRR), through the NextGenerationEU instrument.

