



Press Release

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New project CABLEGNOSIS starts

European Commission-funded project CABLEGNOSIS - Life Cycle Center for Power CABLE diaGNOSIS launched on the 1st of September 2024 to tackle the challenges posed by European Green Deal, EU Action for Grids and support the clean energy transition era for the 2050 targets set in Europe.

The **CABLEGNOSIS - Life Cycle Center for Power CABLE diaGNOSIS** project is a new HORIZON Research and Innovation Action addressing the topic HORIZON-CL5-2024-D3-01-15/HVAC, HVDC and High-Power cable systems. The huge rise in the share of solar PV and wind in total generation fundamentally reshapes the European power system, and significantly increases the need to build new HVAC or HVDC cable connections. These will have a crucial role for the electricity grid to host massive capacity of renewables, link islands or offshore wind parks to mainland or to connect countries over long distances.

The European Union's goals for the clean energy transition aim for at least a 55% reduction in greenhouse gas emissions by 2030. To meet these objectives, electricity grids need to adapt to a context of 50% of electricity production from renewable energy sources (RES) of all scales by 2030. The significant rise in solar PV and wind energy, as a share of total generation, will fundamentally reshape the European power system and substantially increase the demand

for new HVAC or HVDC cable connections that diminish visual impact of new grid infrastructure while ensuring reliability and resilience of energy transmission.

The CABLEGNOSIS project aims to deliver innovative cable technologies that will play a key role in supporting the EU's clean energy transition, by addressing the 2050 targets. CABLEGNOSIS will focus on the development of advanced insulation and conductor design technologies, high-performance and environmentally friendly cable insulation materials, and aging studies of superconducting cables. Additionally, the project will explore recyclability technologies for power cable materials and introduce AI-based tools for pre-fault condition monitoring, aging analysis, and remote diagnostics.

Kick-Off Meeting completed successfully in Athens

The CABLEGNOSIS project officially kicked off on 17-18th of September 2024. A very promising journey towards the development of innovative cable technologies that will support the clean energy transition era has begun. CABLEGNOSIS project has set high-standard objectives to be implemented during the project lifetime, and foresees an impactful addition to the decarbonisation of the energy system. Excited for what's ahead! More information will follow!



Disclaimer

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About Us

The CABLEGNOSIS is a project funded by the European Union's HORIZON Research and Innovation Action under the topic HORIZON-CL5-2024-D3-01-15/HVAC, HVDC and High-Power cable systems and responds to the Call HORIZON-CL5-2024-D3-01/Sustainable, secure and competitive energy supply. The Consortium consists of 17 partners, bringing together six (6) research and technology organisations (ICCS, ESPCI, IWO, UCY, UoS and UoG), two (2) SOs (EAC, ESO), one (1) manufacturer (ASG), seven (7) innovative technology providers (RINA-C, CINT, 3SI, FEN, Xlinks, INA and ADTIC) and one (1) foundation (HUMEA). CABLEGNOSIS innovative technologies will be validated in 5 countries. CABLEGNOSIS is a 36-month long project started in September 2024.

The Consortium

