



Portugal leads €4M project that addresses the European economic recovery plan

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The EU perceives the European Green Deal as crucial for stimulating the economy and addressing climate change. This roadmap defines a set of actions towards a more sustainable economy in the EU. Concerning energy, the success of the investment in renewable energy sources depends on the existence of infrastructures that enable their integration in the existing networks.

In this sense, the European project ATTEST - Advanced Tools Towards cost-efficient decarbonisation of future reliable Energy SysTems, led by the Institute for Systems and Computer Engineering, Technology and Science (INESC TEC), will create the necessary conditions for the development of the European electrical networks of the future, and prepare the infrastructures for the solutions that are beginning to emerge.

“Producing clean energy is not enough; it is vital to maintain and update the infrastructures of the transmission and distribution networks, so they can support and integrate said energy, safely and with maximal results. Hence, we will develop a set of innovative tools to support the design, maintenance and operation of the electrical networks of the future, also considering the integration of renewable energy sources in the networks’ management system”, said André Madureira, researcher at INESC TEC and project coordinator.

By 2023, there will be an energy integration platform and a set of 12 optimisation tools for energy producers and distributors. The developed algorithms will favour 'clean' or low emission technologies. Croatia will pilot the aforementioned tools, before making them available to the international scientific community as open source.

“The project will have an impact on reducing energy waste; thanks to the tools created, energy producers and distributors will be able to adjust operations between themselves, and address the consumers’ needs in real time. A better network management, focused on reducing waste and investing in clean energy, will lead to reduced costs for consumers”, explained André Madureira.

The integration of these solutions at European level will support an equitable, optimised and efficient energy network, with a balanced environmental impact of energy production among all countries.

INESC TEC is the only Portuguese institution involved. The consortium also includes eight partners from five countries: University of Manchester (United Kingdom), Luxembourg Institute of Science and Technology (Luxembourg), Universidad Pontificia Comillas (Spain), Tech Rain SpA (Italy), Innovation Center Nikola Tesla, HEP - Operator Distribucijskog Sustavae and KONČAR - Inženjering za energetiku i transport (Croatia).



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More information at attest-project.eu

For further inquiries
Eunice Oliveira
Communication Service
INESC TEC
FEUP Campus
Rua Dr Roberto Frias
4200-465 Porto
Portugal
T +351 22 209 4297
M +351 934 224 331
eunice.i.oliveira@inesctec.pt
www.inesctec.pt