



Finanziato
dall'Unione europea
NextGenerationEU



Ministero
dell'Università
e della Ricerca



Italiadomani
PIANO NAZIONALE
DI RIPRESA E RESILIENZA



Innovative graphene-based coating for cables and other components for efficient electric power systems

Spoke 1

Task

1.1 Fundamental research / 1.2 Industrial & app.research / 1.4 Tech. devel. & innovation

FP 1

Decarbonization and digitalization in research on new green energy sources

Thematic line

Energy Transition

Workgroup

Giulia Di Capua, Antonio Maffucci, Sarah Sibilis (PhD)

Additional human resources

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Objective

Using a graphene-based coating to improve the electrical and thermal behavior of cables and components. The research activity will aim at two main goals: to assess integration techniques and to provide electro-thermal and electromagnetic characterizations of such coatings.

Use case /
Field of potential application

Electric/electromagnetic coating and shielding for electrical components and systems in industrial applications

Starting TRL

1

Final TRL

4

Collaborations

ENEA, INFN, UniTorVergata, Nanasa, Jaber, E-Lectra

Connections

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