

**High Quality eco-efficient Magnet Wire:
Alternative Technology to produce insulated wire for motor
applications (HI-ECOWIRE)**

Magnet wire (approx. annual production of 120 000 tons in NWE) is used for transformers and electric motors. Materials technologies are facing increasing environmental challenges, productivity and competitiveness requiring a review of their production methods. Therefore, HI-ECOWIRE aims at developing a more sustainable and competitive production process with two main technical objectives:

(i) Improve the energy performance and efficiency of electrical motors by 20% to 30%

compared to the current situation by increasing the thermal class;

(ii) considerably reduce the consumption of (partly toxic) solvents and VOC emissions.

One main overall target of this research activity is to develop a more environmental friendly product and process and thus reducing the CO₂ footprint.

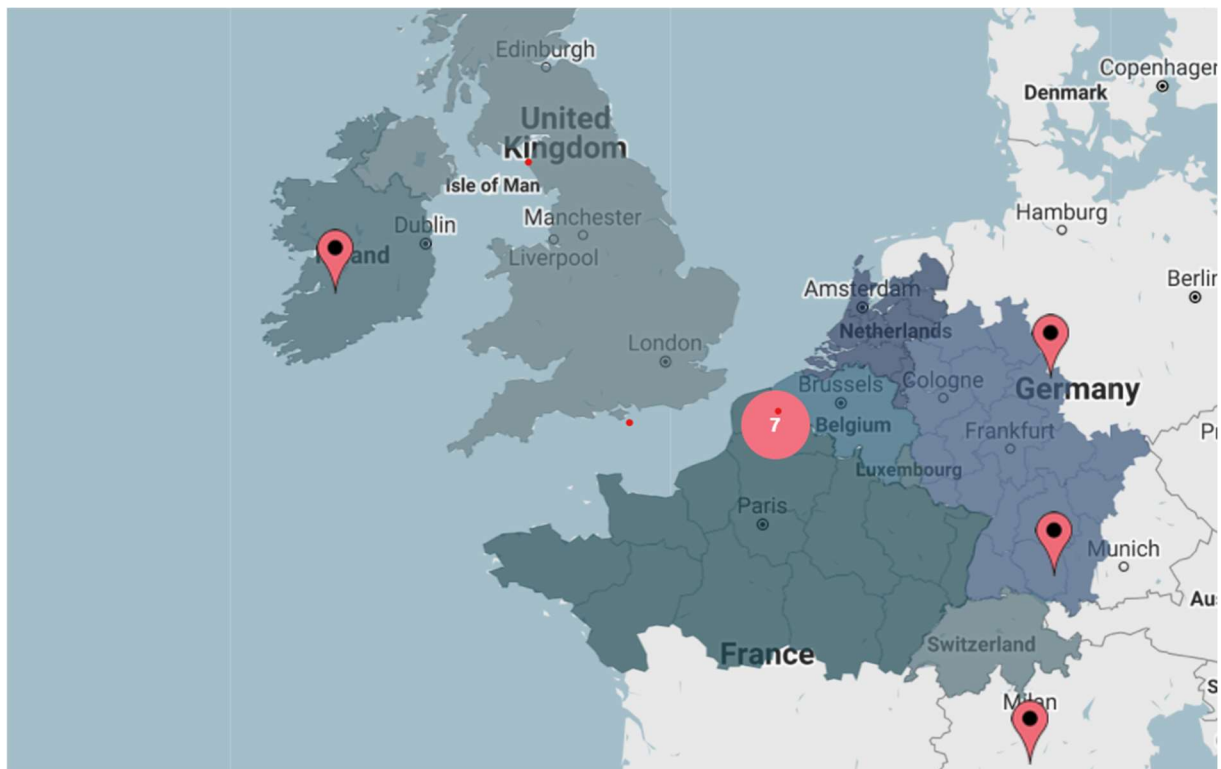
The project is based on an international consortium (SMEs, Industries, Research Centres and Universities) aiming at strengthening European competitiveness in the transport sector and energy production (wind turbine).

HI-ECOWIRE is a 42-months Interreg NWE project, coordinated by Materia Nova, gathering 11 partners from France, Belgium, Germany, Ireland and Italy to develop sustainable and competitive magnet wire.

Starting from laboratory tests the project will optimize the new products and process and validate them at industrial scale.

Constant interactions with the industrial actors within and outside the consortium, based on strong dissemination activities, will be the key to success of the future technology transition.

Associated partners - clusters, associations and agencies - will contribute to communication, dissemination and technology spreading that will allow the relevant industries to have access to the project development once a pre-validated product becomes visible.



PARTNERS



ASSOCIATED PARTNERS

