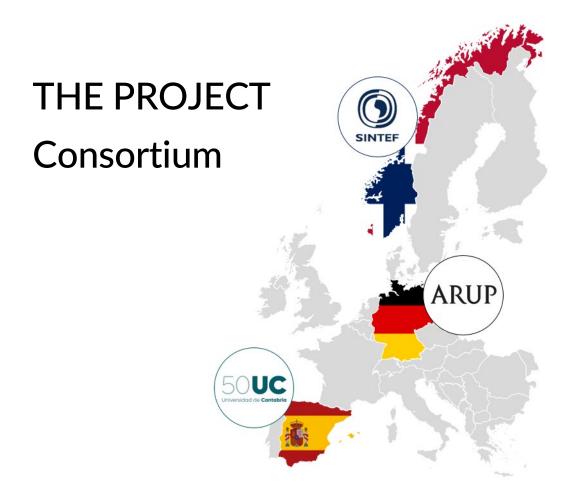




CEDR 2019 Renewable Energy in Road Infrastructure FINAL CONFERENCE – 24 October 2023







#### **FUNDED BY**

NRAs from: Austria, Belgium (Flanders), Germany, Ireland, Netherlands, Norway, Sweden, UK



CEDR Transnational Research Programme
Call 2019 - Renewable Energy in Road
Infrastructure



## **Context & Objectives**

- Roads are crucial for social and economic prosperity of countries and their citizens: not only they ensure access to key public services (e.g. education or health) that contribute to increase people's quality of life, but their expansion has the potential to increase countries' GDP and employment rates.
- Investment in roads represents: a large share of total public investment and a significant environmental impact associated with its entire life cycle.
- The transport sector accounts for around 30% of EU's final energy consumption and a quarter of the EU's greenhouse gas emissions.
- In the last 3 decades, GHG emissions from EU transport sector have grown by more than 30% in contrast to other sectors such as energy or manufacturing, which managed to reduce the emissions considerably.
- In 2020, renewables overtook fossil fuels as EU's main power source, with 38% of electricity generated from renewable sources versus 37% coming from fossil. Also in 2020, the share of energy from renewable sources in the EU transport was 10.2%, mainly due to the increased use of biofuels.
- THEREFORE: The commitment of NRAs is necessary to meet the challenge of new energy targets and more restrictive environmental policies.



## Context & Objectives

The ENROAD project was aimed at:

- Increasing the technical knowledge on potential RE solutions to be placed alongside the road asset for renewable generation.
- Analysing regulatory framework that helps to identify opportunities and challenges for the implementation of RE technologies by NRAs, and defining related effective business cases.
- Providing a GIS-based tool that makes it possible a preliminary assessment of the potential of NRAs assets for renewable power generation.



## **Objectives & Context**



https://diariodecastillayleon.elmundo.es/articulo/castilla-y-leon/junta-cambiara-ley-evitar-plantas-eolicas-solares-vinedos-cultivos-permanentes/20231018134454081117.html?intcmp=masnoticiasportada



# Technical Programme of the Final Conference

PROJECT PRESENTATION	13:15 - 15:00
Introduction to the Project	05 min
Selection of RE energy generation technologies and ESS	15 min
Modelling of the selected technologies	15 min
Legislative & regulatory framework	15 min
Bussines Model & environmental approach	15 min
Introduction to the ENROAD GIS-based tool	15 min
DEMONSTRATION OF THE PROJECT RESULTS	15:30 - 16:45
Introduction to the case study	05 min
Implementation of the CS with ENROAD tool	25 min
<ul> <li>Presentation of the E-Learning modules</li> </ul>	10 min



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