

# HORIZON 2020 PROJECT TRACER

SMART STRATEGIES FOR THE TRANSITION IN COAL INTENSIVE REGIONS

**Technological challenges and opportunities in the TRACER regions**

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# TRACER CONSORTIUM



WIP Renewable Energies, Germany

[www.wip-munich.de](http://www.wip-munich.de)



Centre for Renewable Energy Sources and Saving, Greece

[www.cres.gr](http://www.cres.gr)



Research Institute for Post-Mining Landscapes, Germany

<http://fib-ev.de>



University of Strathclyde, UK

[www.strath.ac.uk](http://www.strath.ac.uk)



Black Sea Energy Research Centre, Bulgaria

[www.bserc.eu](http://www.bserc.eu)



Güssing Energy Technologies GmbH, Austria

<http://get.ac.at>



The Association of European Renewable Energy Research Centres, Belgium

[www.eurec.be](http://www.eurec.be)



Institute for Studies and Power Engineering, Romania

[www.ispe.ro](http://www.ispe.ro)



Energoprojekt ENTEL, Serbia

[www.ep-entel.com](http://www.ep-entel.com)



Coal Energy Technology Institute, Ukraine

[www.ceti-nasu.org](http://www.ceti-nasu.org)



University of Agriculture in Krakow, Poland

[www.ur.krakow.pl](http://www.ur.krakow.pl)



Llywodraeth Cymru  
Welsh Government

Welsh Government, UK

<https://gov.wales>



Charles University, Czech Republic

[www.cuni.cz](http://www.cuni.cz)



Czech University of Life Sciences Prague, Czech Republic

<https://www.czu.cz/en/>

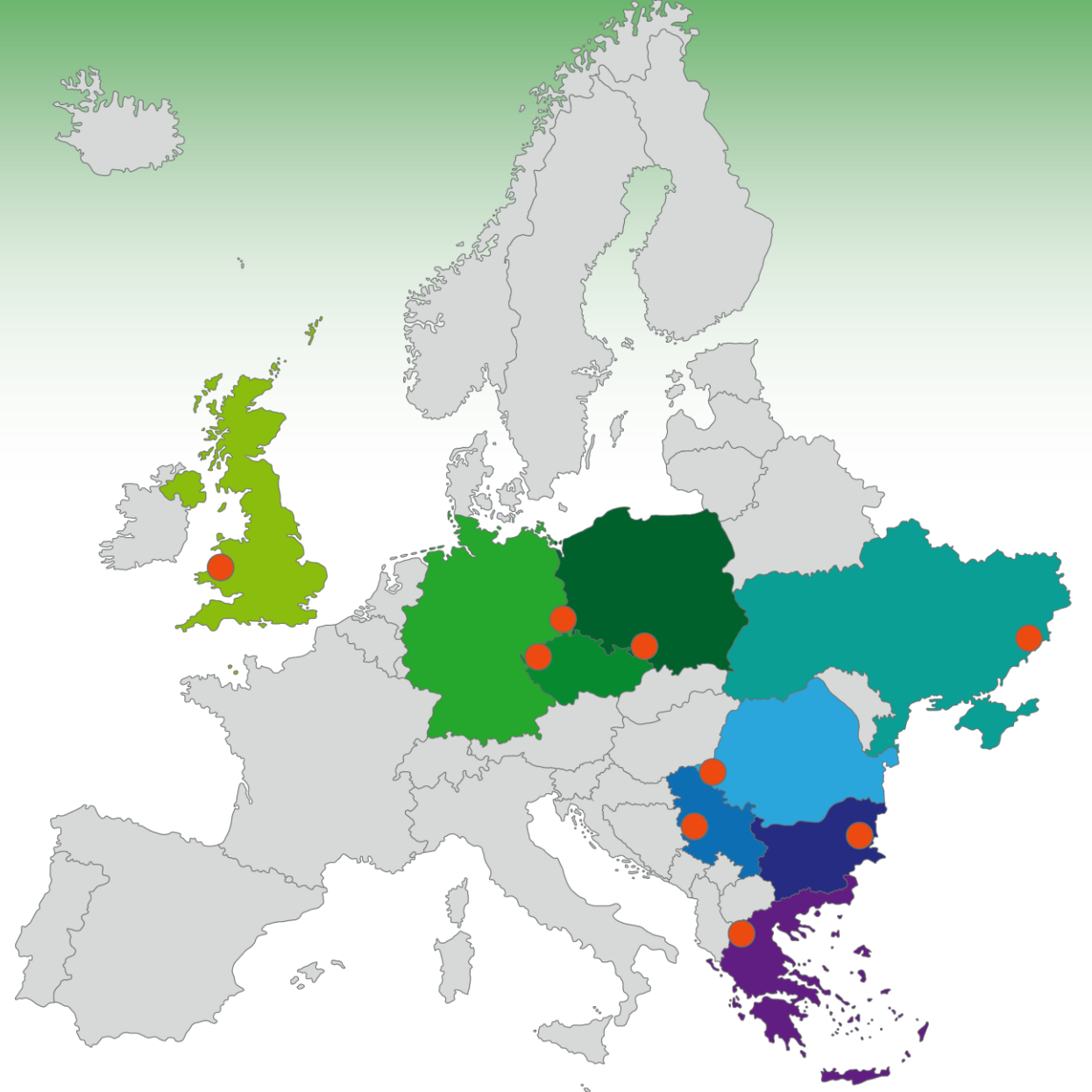


Jiu Valley Social Institute Association, Romania

[www.institutulsocialvj.ro](http://www.institutulsocialvj.ro)

# TRACER TARGET REGIONS

- Southeast Region (BG34), Bulgaria
- Northwest Bohemia (CZ04), Czech Republic
- Lusatia Region, Brandenburg (DE40) and Dresden (DED2), Germany
- West Macedonia (EL53), Greece
- Upper Silesia (PL22), Poland
- West Region / Jiu Valley (RO42), Romania
- Kolubara Region (RS11&RS21), Serbia
- Donetsk Region, Ukraine
- Wales (UKL1, UKL2), United Kingdom



# CHALLENGES

- Introduction of new technologies goes hand in hand with **Research and Innovation** activities → low innovation rates in TRACER coal regions
- Developing storage capacity for both electricity and heat
- Lack of RES related field data, no regional / local potential assessment studies (e.g. Jiu Valley, Romania)
- Involvement of SMEs
- Long-term thinking to ensure that market design allows continued growth of renewables at least cost



# OPPORTUNITIES

- Production of RES is projected to increase (possibilities for large scale installations)
- During TRACER interviews several key ideas for the regional transition to new businesses have been outlined:
  - > production of energy storage solutions, such as batteries for electrical vehicles and large storage for electricity and heat
  - > hydrogen
  - > energy crops
  - > district heating operation, substituting lignite dependency with alternative energy sources
  - > energy communities



# RESULTS



<https://tracer-h2020.eu>





# THANK YOU!

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