

Project idea/ Field of expertise:

Integration of Microbial Electrolysis Cell technology as a flexibility provider in the EU POWER system

Organisation Name:

Vertech-Group

Adressed challenge(s)/ PPP(s):

Supporting the balancing of the power grid and increasing the flexibility of the energy system through dispatchable renewable energy sources.

Adressed topic(s) in Work Programme:

LC-SC3-RES-16-2019



Environmental and Innovation Management Empowering Sustainable Profitability

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+ 50 European Projects: Partners & Scientific Coordinators

OUR SERVICES

INNOVATION MANAGEMENT



- ✓ Support in proposals writing.
- ✓ Project partner search and matchmaking services.
- ✓ Projects Coordination.

ENVIRONMENTAL MANAGEMENT



- ✓ Environmental certifications
- ✓ Sustainability assessments
- ✓ Ecodesign
- ✓ hotspots along production chains where there is room for resources efficiency improvement.

Integration of Microbial Electrolysis Cell technology as a flexibility provider in the EU POWER system

- **Objective:** convert RES into dispatchable ones, like **bioenergy**. Multiple benefits and overcoming several barriers for **RES integration** in the energy system.
- Microbial Electrochemical Systems (MES)- Capable to:
 - (i) convert biowaste feedstock into valuable energy carriers/chemicals (biogas, H₂)
 - (ii) harness bioelectricity.

Consortium

Known partners / Competence offer

Profile	Country	Role in the project
University	CH	Coordinator, MEC reactors
Industry	AT	Cathodes development
SME	IT	Microbiology DNA sequencing and analysis
SME	FR	Sustainability assessments

Partner search

Profile	Country	Role in the project
SME Research Center	European	Economic analysis and getting knowledge of the polygrid system Gas-Electricity-Heat.
Industry	European	End-user for transport application (specifications providers & characterization)
Industry (Power Plant)	European	End-user for grid application (specifications provider & characterization)
SME	European	Feedstock supplier & pretreatment

Contact details

Contact person

Organisation:	Vertech-Group
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