SMA
GRI
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POWERING SMART GRID EXPERTISE IN EUROPE

www.smagrinet.eu

Smart Grids for an efficient, sustainable and human-centric energy system

The European Union (EU) aims to reduce its greenhouse gas emissions by 20% by the year 2020 and significantly more in the coming decades. This would require increasing the share of renewable energy in the electricity consumption of the EU countries, which is difficult with the electrical grids currently used in the majority of EU's countries. The traditional electrical grids are not flexible enough to allow the effective integration of renewable energy sources.

In order to achieve such reductions in emissions, a wider adoption of smart grids needs to be implemented across the globe increasing the grid efficiency, the usage of renewable energy sources and the consumer control over their energy consumption.

Smart grids are the answer for Europe

Why SMAGRINET?

Because of POWER ON

SMAGRINET is establishing a competence hub called **POWER ON** that is providing **services, activities, events** and **opportunities** for European universities, municipalities and energy industries to enhance their capacity in energy research and innovation **to tackle the smart grid energy transition.**

Energy Industries

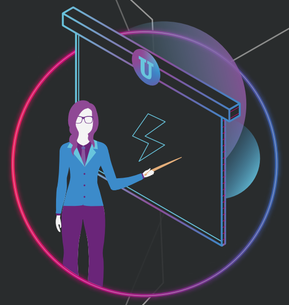
Towards a skilled and competent workforce

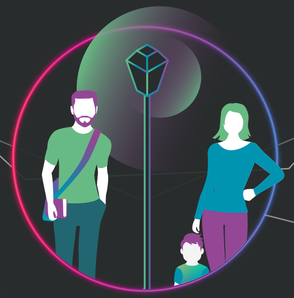
POWERFUL SERVICES

Engineering Academia

Towards a distinguished and excelence-devoted institution

EMPOWERING EVENTS & ACTIVITIES





Municipalities

Towards an efficient and progressive city

ENLIGHTENING TOOLS

ELECTRIFYING REFERENCES

General Public

Towards an informed and knowledgeable society

POWER ON
services and tools powered by the European Commision, contributing to ...

ENERGY INDUSTRIES

... leading your company towards success with a skilled and competent workforce to efficiently address the energy transition

ENERGY INDUSTRIES

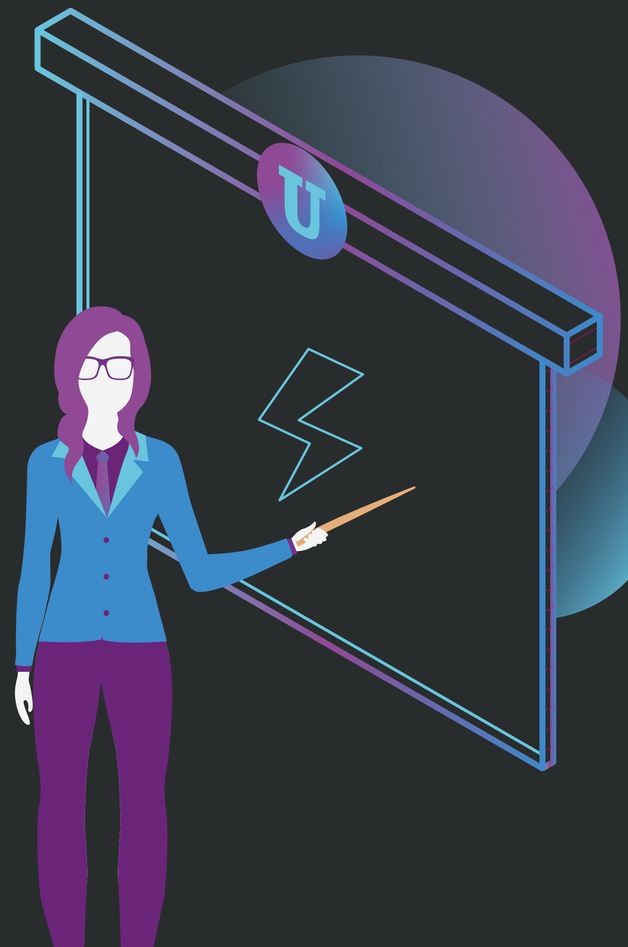
- Network building and experience exchange workshops
- Matrix of challenges ahead for the smart grid and energy transition
- Continuing education course for current workforce
  - Online lectures
  - Live sessions with remote instructor
  - Interactive exercises
  - Multi-stakeholders workshop based on current challenge from a company

POWER ON
services and tools powered by the European Commision, contributing to ...

... the excellence and reputation of your institution in the field of electrical engineering and energy domain

ENGINEERING ACADEMIA

- Challenge and case-based master level (MA, MSc or ME) modules in interaction with companies and municipalities
- Map of industry's needs
- International student mobility programme at enterprises
- Continuing education courses for researchers
  - Online lectures
  - Live sessions with remote instructor
  - Interactive exercises



POWER ON
services and tools powered by the European Commision, contributing to ...

MUNICIPALITIES

... establishing an efficient and progressive city in terms of its energy services

MUNICIPALITIES

- Network building and experience exchange workshops
- Roadmap and best practices for legislation formulation programmes
- Matrix of challenges ahead for the smart grid and energy transition
- Continuing education courses
  - Online lectures
  - Live sessions with remote instructor
  - Interactive exercises

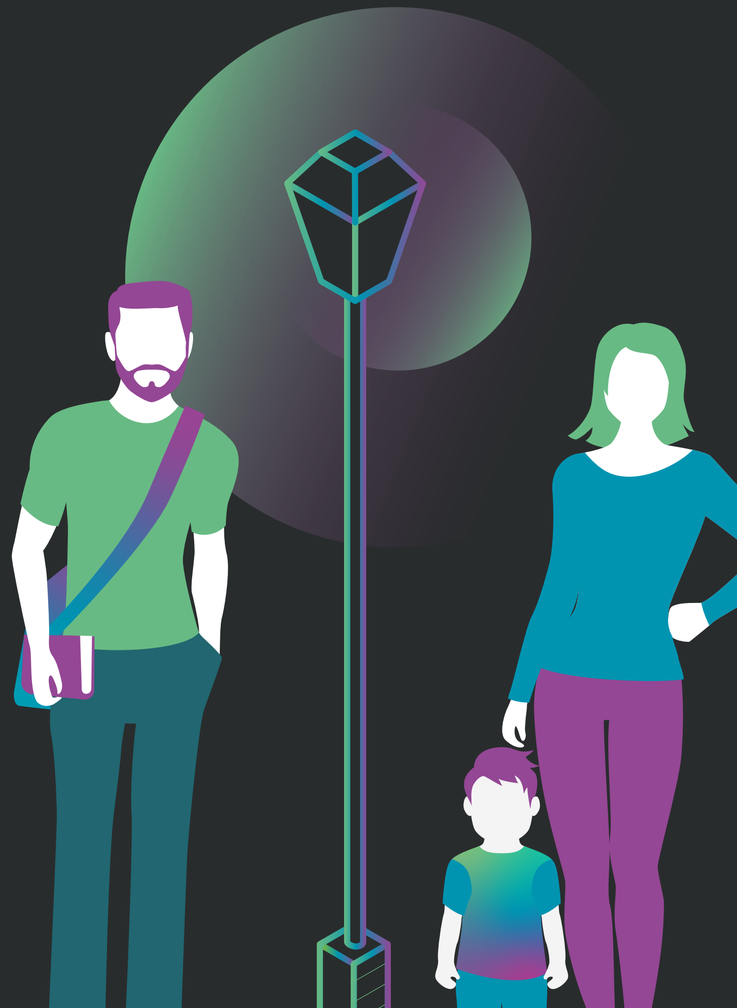
POWER ON
services and tools powered by the European Commision, contributing to ...

GENERAL PUBLIC

... sensitizing citizens about the energy sector for informed decision-making

GENERAL PUBLIC

- Matrix of challenges ahead the smart grid and energy transition
- Serious game of energy (pedagogic challenge)
- Continuing education courses
  - Online lectures
  - Live sessions with remote instructor
  - Interactive exercises



Training the future workforce and involving society

Smart Grid implementation requires:

Large **investments** for replacing current electrical grids with smart grids.

Training a next generation of engineers, who must be skilled to implement the new technologies.

A thorough consideration of environmental challenges.

Training the future workforce and involving society

This requires:

- Skilled service providers and professional end users to receive proper training when new technologies become available.
- Public authorities to be informed about new developments in the energy field, to be able to contribute to the development of adequate policies and support schemes.
- Civil society to be aware of the emerging energy solutions, which would contribute to market uptake, deployment and use of new technology.

Join the SMAGRINET Competence Hub

POWER ON

Be part of the European Energy Revolution

www.smagrinet.eu

Let’s keep this energy flowing:

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Contact us at **info@smagrinet.eu**

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