

# PARTNER SEARCH

**Faculty of Electrical Engineering and Computer Science** (more information [HERE](#)) of the VSB – Technical University of Ostrava (the Czech Republic) is searching European partners in order to start collaboration. The Faculty provides research expertise in the areas of energy power systems, sustainable energy, smart grids, electronics, robotics, biomedical devices, big data, applied computational science, mathematics, reliability etc.

The **Department of Electrical Power Engineering** is a part of the Faculty of Electrical Engineering and it has 3 research groups (Electric Machines and Devices, Transmission and Distribution of Electrical Power, Power Generation and Energy Applied). The Department currently deals with the issues of reliability centred maintenance and optimization of electrical networks in industry, public lighting, renewable sources, energy harvesting, Smart Cities, heat pumps.

Employees are members of the IEEE, CIRED, CIGRE, Commission internationale de l'éclairage (CIE), LUX EUROPA, Lumen V4, and EERA. A big IEEE International Conference on Electric Power Engineering is regularly organised by the Department.

**The Department is looking for partners for future collaboration and can provide expertise** in the following areas:

- Reliability and RCM in electrical power engineering, electrical power quality, active systems for energy flow control in Smart Grids, optimization of electrical networks
- Power generation and heat production from renewable sources, heat pumps, electrical heating, conventional sources, fuel cells, electric light
- Wind turbines optimization, development of Demand Side Management in Off-GRID systems, relay protection conception for SMART GRIDS, methods for fault detection in MV networks, Smart Energy Harvesting

The Faculty would like to join a consortium in the framework of the **Horizon 2020** calls for proposals (Work Programme ENERGY) as a partner.

**Horizon 2020 Work Programme 2016 – 2017 Energy Efficiency Call**

[EE-06-2016-2017: Engaging private consumers towards sustainable energy](#)

[EE-09-2016-2017: Engaging and activating public authorities](#)

[EE-11-2016-2017: Overcoming market barriers and promoting deep renovation of buildings](#)

[EE-15-2017: Increasing capacities for actual implementation of energy efficiency measures in industry and services](#)

[EE-16-2016-2017: Effective implementation of EU product efficiency legislation](#)

[EE-18-2017: Energy efficiency of industrial parks through energy cooperation and mutualised energy services](#)

[EE-19-2017: Public Procurement of Innovative Solutions for energy efficiency](#)

**Horizon 2020 Work Programme 2016 – 2017 Competitive Low Carbon Energy**

[LCE-10-2017: Reducing the cost of PV electricity](#)

[LCE-17-2017: Easier to install and more efficient geothermal systems for retrofitting buildings](#)

Into the projects, the Department can contribute mainly in the following areas: **Power generation and heat production from renewable sources incl. heat pumps, electric public lighting incl. standard specification, Optimization of electrical networks, development of Demand Side Management in Off-GRID systems, active systems for energy flow control in Smart Grids, electrical power quality, cooperation with public partners.**

The Department was involved in a project within the FP5 (Safety and Reliability of Industrial Products, Systems and Structures, GTC2-2000-33043). At the moment, the FECS is a partner of a running H2020 project Prognostics and Computer Aided Maintenance - PACMAN (Clean Sky 2).

The Department is open to the possibilities of cooperation in **other international projects**, too. Further information about the Faculty of Electrical Engineering and Computer Science are listed in the attached sheets.

The contact person on the Faculty's side is Ms. Michaela Vrazelova you can find her details below.

**Contact person**

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