Renewables and Demand Side Management

Category: Master's Thesis Project idea, 30 hp
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Nations around the world are focusing on the policies for encouraging renewables deployment for achieving RE targets, energy security and climate change mitigation. In developing countries, the polices are mainly focused on increasing grid access for the population that still lack electricity access. Governments are framing policies and initiatives to meet the energy deficit through renewable energy sources, with solar energy being one of the most prominent choices. Meanwhile, the advent of smart meter has opened up avenues for implementing alternative tariff mechanisms supporting demand side management (DSM) strategies. If implemented, this may allow the advent of more efficient systems from the start, saving investments to give access to as many as possible.

In the proposed thesis topic, the student will explore DSM services and strategies for developing nations. In this context, the opportunities to integrate PV, wind or other renewables can be further explored. The study may be defined around different objectives, depending on the interest of the student. The thesis can be more specific, for example, exploring business value creation through smart meter data, or focus on policy issues.

Main deliverables

The study will be developed in the form of a Master Thesis, thus requirements are accordingly.

This project will be supervised by ECS, Dept of Energy Technology.

For more information on the master thesis project, please contact

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