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Advanced Teaching and training on Smart grid and Grid Integration of Renewable Energy Systems

DESCRIPTION: Renewable Energy (RE) is expected to be one of the main solutions for clean power supply and covering the shortage in the electrical power. Smart Grids (SG) are expected to be a key enabler in the integration of Renewable Energy Sources (RES) in the electrical networks. Better understanding of the SG concept enables faster and more sustainable development of the RE and SG market. However, this knowledge field is underrepresented in the existing technically overwhelmed teaching curricula at universities and hence, is considered a deficit that should be reduced.

The importance of this project comes from tackling this problem by integrating the SG and the methods of integrating RES to electrical grid in RE teaching programmes offered at HEIs in beneficiary countries. In this context, this project aims at developing and implementing interdisciplinary teaching modules and training courses on SG and integration of RES to electrical networks on university teaching level. While the teaching materials target graduate and post-graduate students, the training courses are designed to train the teachers involved in the process. The teaching modules will be prepared by the project partners in close cooperation with industrial stockholders.

A training center will also be established in beneficiary universities to facilitate the development of the workforce currently working in the field of RE. One of this project outputs will be the curricula of this center.

In the implementation phase, the modules will be incorporated in existing curricula at partner universities and some special modules will be also offered in the training center for the industrial stockholders. In a following step, these modules will be disseminated through targeted e-learning.

The expected impact of this project is mainly making the teaching of SG and RES at participating universities more comprehensive and to enhance the workforces' knowledge level currently involved in RE market about the application of SG.

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