



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



Co-funded by the
Erasmus+ Programme
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Advanced Teaching and training on Smart grid and Grid Integration of Renewable Energy Systems/AT-SGIRES

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AT-SGIRES Newsletter





Dissemination Events

• Hamburg University of Technology – Germany - February,2019

The internal dissemination event was held at the Institute of Environmental Technology and Energy Economics, on February 20th 2019, as part of the regular working group meetings of the institute.

After a short welcome by Prof. Kaltschmitt, Sebastian Drünert gave an introductory presentation about the AT-SGIRES project. The website and the AT-SGIRES Network were presented and met with high interest. Especially the planned online modules about Smart Grids and the Grid integration of Renewable Energies seemed of special interest to the audience and the presentation was followed by a longer discussion.

The other teaching staff of the IUE was provided with information material about the project that could be distributed in their lectures.

After this first session, Daniel Christ gave an update about the development status of SGs and REs in Morocco. He furthermore shared insights from the AT-SGIRES meeting in Morocco and the trip to the solar power plant Noor in Ourzazarte. The presentation was well received and followed by a discussion about the future of renewable energy in Morocco and the MENA region.



• Al-Akhawayn University- Morocco. - 1st, March, 2019, Rabat , AUI

A dissemination conference on smart grid was held at AUI –Rabat in March ,1st,2019 ,

A presentation gave by Dr. Khallaayoun about introducing the topic of Smart Grids and Grid-Connected systems to the curricula of undergraduate and postgraduate Programmes in different MENA and EU universities. And to deepen the understanding of the Smart Grids projects and grid-connected systems among communities, and the working force in the MENA region, Also to improve the quality of renewable energy integration and Smart Grids courses offered in the partner universities, and develop and implement online teaching modules in the field of Smart Grids and integration of renewable energy sources for a wider dissemination.





• 13th, March, 2019, Ifrane , AUI

A dissemination event and conference on smart grid was held at AUI in March, 13th, 2019. Smart grid technologies are becoming more attractive and necessary. The necessity to modernize the grid, especially in the Moroccan context, rises from the fact that Morocco is planning to have 52% of its energy mix from renewable resources by 2030, and to implement energy efficiency measures that would save 15% of energy by 2030. The Advanced Teaching and Training on Smart Grid and Grid Integration of Renewable Energy System (or AT-SGIRES) project consists of raising awareness and building capacity in smart grid for MENA partners.

The conference discussed the project structure and objectives. It also explained to the audience the advantages that students and faculty can benefit from in the context of the project. Besides the trainings that some AUI students have and will benefit from (two graduate students in the SEM program went to the university of Cyprus for a two-week training), the project is developing modules related to Smart grid technologies that will be available on an e-learning platform that all AUI students can access for free. Two more talks were delivered; one on energy efficiency and the other on energy in Morocco. Prospects and challenges were presented by Mr. Lhoussaine TENGHIRI and Dr. Khallaayoun AHMED respectively. More than 100 students and faculty attended the event.



• University of Cyprus –Cyprus - April,2019

The Fourth dissemination meeting was held at the University of Cyprus – Cyprus in April , 24th-26th, 2019 for the project AT-SGIRES that was co-founded by the Erasmus + program of the European Union.

On behalf of University of Cyprus Dr. George KONSTANTINOU welcomed the attendees from the partners, then Dr. Adib AL-ALLAHHAM introduced the project E-Learning platform that was constructed. He showed explicitly DESIRE Platform, how the chapters are distributed, the laboratories, exams and handbooks.

Christos METTOURIS and Evangelia VANEZI from Computer Department at UCY presented an update about potential platforms to build the E-Learning platform of AT-SGIRES, also Christos explained and presented the options for constructing the E-Learning platform which are: (Canvas, OPENedX, Moodle , Google Classroom) .

In April 25th, Dr. Adib discussed the project status, and then WP leaders reported about the progress achieved through their Work Packages.





Training Sessions on Smart Grid and Grid Integration of Renewable Energy System

• University of Cyprus-Cyprus

February 4th – March 1st .2019

As part of the AT-SGIRES Project activities, University of Cyprus (UCY) has successfully delivered the planned 2 sessions of 2 weeks each of the AT-SGIRES training programme which is under WP5.

22 members and 28 students from Syria, Jordan and Morocco Universities have participated in two sessions of two weeks training programme.

In week 1, courses organized by Professor George Georghiou and Dr. George Constandinou, and supervised by Department of Electrical and Computer Engineering at UCY were given to introduce intensively the Smart Grids and integration of Renewable Energy Resources.

In week 2, participants were enrolled into a PV Technology training program that is delivered using the advanced infrastructures related to the PV technology at UCY.



**• Middle East University –Amman**May,29th .2019

Middle East University, represented by Renewable Energy Department at the Faculty of Engineering, has participated in a specialized training course in advanced teaching and training on smart grid and grid integration of renewable energy systems held at the University of Cyprus within the events of Erasmus+ international academic projects.

The course witnessed a wide participation of European and Arab universities, as well as a number of Jordanian universities, while the course's subjects focused on the basics of advanced teaching and training on smart grid and grid integration of renewable energy systems. Moreover, the University was represented by the Head of Renewable Engineering Department, Dr. Samer As'ad, and faculty member, Dr. Mohanad Al Halawani, as well as a number of the Faculty of Engineering's students.

Dr. Samer As'ad stated that the Renewable Energy Department at the University has organized a number of lectures conducted by students participating in this training course on university campus, in order to impart the knowledge experience they have obtained throughout their participation upon the recommendations of Erasmus+ coordinators.

Dr. As'ad clarified that the lectures discussed the subjects of the basics of energy networks operation, renewable energy networks' system formalization, renewable energy smart grid systems, electric car operation systems, and materials used in green buildings.

This participation was carried out under the umbrella of Erasmus+, which aims to develop higher education and teaching at the participating universities through academic cooperation with European countries, and offers exchange opportunities for students amongst cooperating universities, in addition to faculty members exchange for teaching ,training and ,scientific research purposes.





Smart Grid Workshop

- **Tafila Technical University –Jordan**
April,2019

On Day Workshop on Smart Grid and Grid Integration of Renewable Energy System was held in Tafila Technical University in April, 16th, 2019 under the patronage of the university president Prof. Mohammad Al-Hourani .



Scientific Conference about Smart Grid and Grid Integration of Renewable Energy System

- **Al-Baath University –Syria**
June,2019

Al-Baath University, in cooperation with the Higher Institute for Water Management, Faculty of Architecture, Faculty of Mechanical & Electrical Engineering, Faculty of Chemical & Petroleum Engineering, Faculty of Agriculture and the Syrian-Belarusian Center for Scientific & Technical Cooperation held a Scientific Conference Entitled: “Engineering Scientific Research as a Supporter for Development and Reconstruction” as a part of dissemination events of The AT-SGIREs project in June, 10th-12th, 2019.





AT-SGIREs Website Updates :

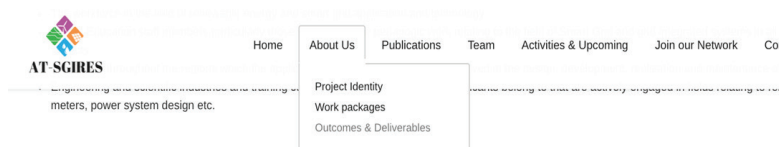
1. Creating Shared Folder

<http://www.meu.edu.jo/sites/atsgires/sharedfolder>



2. Explaining the outcomes and deliverables for each work package.

<http://www.meu.edu.jo/sites/atsgires/index.php/2018-07-07-08-08-15/outcomes-deliverables>



target groups will be reached through the following means:

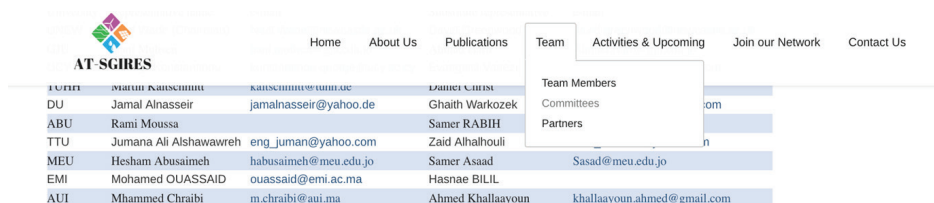
- Direct engagement with students on university levels which covers all applicants involved.
- Direct engagement with the workforce from the industries (stockholders) which work in the field of smart grid field (through fellowship programs).
- Seminars and conferences held by the consortium will open up the channels required to communicate the outputs of the project to target groups 3 and 4.
- The dedicated website and online data provided by the consortium will further reach out to all parties who find the project's work of relevance to their domain.
- Printed material including newsletters, brochures and training booklets will enable the consortium to reach out to institutes and centers directly or indirectly.

VP1 Outcomes & Deliverables

- Methodology of insertion of Smart Grid and Grid Connected Systems on Education
- Report of current situation
- Survey Report Of the Teaching Staff MENA
- Survey Report Teaching Staff European Universities
- Survey Report Stakeholders
- Survey Report Students

3. Adding the Dissemination Committees contact details

<http://www.meu.edu.jo/sites/atsgires/index.php/2019-04-04-07-27-53/committees>



Dissemination Committee

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4. Adding the upcoming events

<http://www.meu.edu.jo/sites/atsgires/index.php/2019-04-05-08-18-05>

THIRD PLENARY MEETING



Third Plenary Meeting Mohammadia School of Engineering 26 Nov...

[Read more](#)

FIRST TRAINING SESSIONS



First Training sessions University of Cyprus 4 February – 1 Ma...

[Read more](#)

Upcoming Events

- Meetings and Workshop in Cyprus from 24-26 April, 2019. Agenda

5. Website and links

The partner universities added a web page about the project and link to the project's website



Upcoming Events:

- Training Sessions on Smart Grid and Grid Integration of Renewable Energy System at UNEW and TUHH

Project Partners:

