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Development of Higher Education Teaching Modules on the  
Socio-economic Impacts of the Renewable Energy Implementation



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# DESIRE Newsletter

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This is Issue 6 of the DESIER Newsletter that covers all the DESIRE activities and closing ceremony of the final period of the project. DESIRE is a project funded by the European Union's ERASMUS+ Programme and is dedicated to the development of higher education teaching modules on the socio-economic impacts of the renewable energy implementation.

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# E-Learning & Advanced Module Dissemination Workshop



December 16th, 2018 – Amman, Jordan. E-Learning & Advanced Module Dissemination Workshop was held on the main campus of the German Jordanian University (GJU). In attendance were GJU students and a delegation from the Tishreen University (TU). During the dissemination event, Eng. Mai Al-Zu'bi showed

the audience how to register for the e-learning platform and how to use. In addition Eng. Al-Zu'bi encouraged students to follow DESIRE on social media. Following the e-learning platform tutorial, the advanced model: Job Creation was presented and outlined to the audience by Dr. Mohamad Khawaja of GJU.

## E-Learning Platform Workshop and Dissemination



January 29th and February 1st, 2019 – Nicosia, Cyprus. Eng. Mai Al-Zu'bi of the German Jordanian University (GJU) trained the DESIRE members on how to register for the e-learning

platform and how to use its various tools and options. Such as creating courses and managing content.

# Steering Committee Meeting – Nicosia, Cyprus

January 30th – February 1st, 2019 – Nicosia, Cyprus. The final DESIRE Steering Committee Meeting (STC) was held in Nicosia following the e-learning platform workshop. The project coordinator, Professor Ala'aldeen Al-Halhouli, of the German Jordanian University (GJU), welcomed the participants and presented an update of the status of the DESIRE project.

Dr. George Konstantinou of the University of Cyprus (UCY), Carl-Philipp Anke of the Technical University of Dresden (TUD), Professor Ahmad Al-Salaymeh of the University of Jordan (UJ), Professor Salama Abdelhady of Aswan University (AU), Dr. Katuscia Cipri of Sapienza University of Rome (UNIROMA1), Eng. Mai Al-Zu'bi (GJU), and Haider Al-Khoshman (GJU) all shared the tasks they are responsible for and presented the status of their assigned work packages.



## Know-How Transfer Workshop

March 12th, 2019 – Amman, Jordan. The closure of the DESIRE project started on Tuesday in Amman at the German Jordanian University's (GJU) main campus with multiple sessions on the know-how transfer where the European Union (EU) partners reviewed the modules and their content with the intent to show the audience, mostly instructors from beneficiary MENA region countries, the structure and syllabus of each module.

The participating EU partners came from University of Cyprus (UCY) and the Technical University of Dresden (TUD). The MENA region was represented by members from the host university, GJU, along with representatives

from the University of Jordan (UJ), Damascus University (DU), and Tishreen University (TU).

Dr. George Konstantinou (UCY) reviewed the Job Creation and the Integration and System Aspects of Renewable Energy modules.

Philipp Hauser (TUD) reviewed Economics of Renewable Energy Systems and Technological Innovation of Renewable Energy Systems modules. The Health, Well-being, and Environmental Quality and the Climate Effects, Environmental Management, and Sustainable Development modules were reviewed by Professor Moussa Al Samara (TU).



# Steering Committee Meeting Amman, Jordan

March 12th, 2019 – Amman, Jordan. The final DESIRE Steering Committee Meeting (STC) was held in Amman following the Know-How Transfer Workshop that was held earlier that day.

The project coordinator, Professor Ala'aldeen Al-Halhouli, of the German Jordanian University (GJU), presented an update of the status of the DESIRE project. The goal of the meeting was to ensure all last minute details were covered before the closing ceremony. Philipp Hauser, from the Technical University of Dresden (TUD), asked for final progress reports of each work package to be submitted for quality assurance.



The final report will be submitted GJU upon the completion, submission, and approval of all progress report to the main ERASMUS + office.

## Closing Ceremony – Amman, Jordan



### Morning Session

March 13th, 2019 – Amman, Jordan. The closing ceremony, held at the German Jordanian University (GJU) in its main campus in Madaba, served to share the results and outcomes of the lifespan of the DESIRE project in the past three and a half year.

Members of academic institutions as well as stakeholders from the industry attended to celebrate the successful closure of the project. The closing ceremony kicked off with welcoming words from the president of GJU, Professor Manar Fayyad, who emphasized the importance of this project and the need to build on the solid

foundation that has been laid by the DESIRE team. The welcoming remarks were followed by an introduction of the ERASMUS+ projects from the Amman office given by Professor Ahmad Abu El-Haija, Director. The DESIRE project coordinator, Professor Ala'aldeen Al-Halhouli, introduced the project, its modules and e-learning platform, along with status and outcomes of the project.

Two guest speakers, Dr. Louy Qoaider of the Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH who was also the former DESIRE project coordinator and Dr. Dureid Mahasneh, Chairman of EDAMA Association. Both distinguished guests spoke about the development of renewable energy implementation and its socio-economic impacts.

### Afternoon Session

March 13th, 2019 – Amman, Jordan. Speakers from the DESIRE team, from the Middle East and North Africa (MENA) region and from the European Union, talked about various related topics. Professor Ahmed Al-Salaymeh

of the University of Jordan (UJ): Energy status in Jordan and the socio-economic impact of renewable energy projects in Jordan. Dr. George Konstantinou of the University of Cyprus (UCY): Doubling renewable energy systems until 2030 – the road to social and economic enhancement of a global scale. Matthew Schmidt of the Technical University of Dresden (TUD): Low-carbon energy systems in MENA – unlocking renewable energy systems potential

through market liberalization. Dr. Julia Terrapon of the Wuppertal Institute: water-energy nexus – the role of water in the energy transition. Dr. Gabriella Calderari of Sapienza University of Rome (UNIROMA1): The primary role of energy in the sustainable development goals to 2030. Finally, Dr. Mohammad Saeed Aboutrab of the University of Damascus: Renewable energy and sustainability in Syria.

## Workshop on Socio-Economic Impact of Renewable Energy – Dissemination Activity for Northern Universities and Stakeholders in Jordan



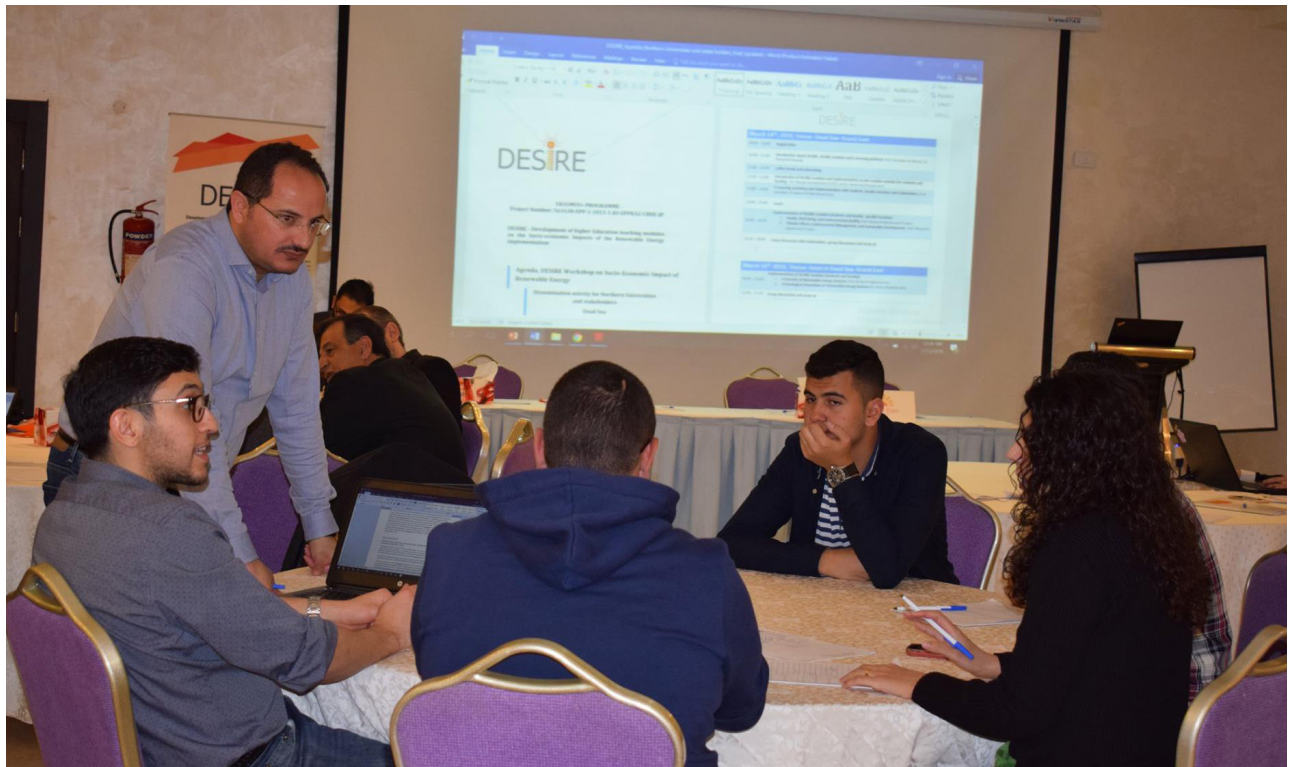
March 14th, 2019 – Dead Sea, Jordan. The DESIRE team invited universities from the northern region of Jordan to attend a dissemination session of the outcomes of project in an attempt to involve them in the post-project era and have these universities incorporate the created modules to their curricula. Industry take holders were also invited for a panel discussion to bridge the game between academic know-how and industry needs.

The early session of the dissemination

workshop was interactive with the audience, instructors and students, discussing various renewable energy topics and learning how to use the e-learning platform.

The project coordinator, Professor Ala'aldeen Al-Halhouli of the German Jordanian University (GJU), welcomed the audience and explained what the DESIRE project is and how can the audience gain knowledge and experience from it. Dr. Mohamad Khawaja (GJU) shared the dissemination plan and the previous outreach programs such as Capacity





Building sessions, Training of Trainers, and Dissemination Workshops. Dr. Khawaja then introduced the Advanced Modules and their benefits to various stakeholders, technical and nontechnical alike. Dr. George Konstantinou of the University of Cyprus (UCY) introduced the Technological Innovation on Renewable Energy Sources modules then Dr. Khawaja introduced the Job Creation in Renewable Energy and Energy Efficiency modules. Both sessions were interactive with the audience with plenty of questions and answers. Mai AL-Zu'bi (GJU) introduced the e-learning platform in details as the audience were following her instructions via their computers, tablets, and smart phones. The session was successful as students and instructors were able to log in and learn how to access all the modules' materials. Preceding the e-learning platform's session, Professor Moussa Al Samara of Tishreen University (TU) introduced the Health, Well-Being, and Environmental Quality module and the Climate Effects, Environmental Management, and Sustainable Development module.

The late session of this dissemination workshop was a panel discussion among

panelists and audience members. The panelists were Professor Ala'aldeen Al-Halhouli (GJU), Professor Suhil Kiwan of the Jordanian University of Science and Technology (JUST), Dr. Iyad Sartawi of the Energy Services Center, Dr. Aziz Al-Muhtaseb of the Royal Hashemite Court, and Dr. Louy Qoaider of the Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH. The main goal of the discussion was to raise awareness of the industry needs and how universities in Jordan can address them.

March 15th, 2019 – Dead Sea, Jordan. The final day of the dissemination workshop kicked off with a roundtable discussion of various topics on renewable energy and energy efficiency (REEE) such as social impact of REEE, economic impact REEE, future topics in REEE, and sustainability of REEE. Each table had a delegate from each institution that was present at the workshop.

The workshop was adjourned after the final presentation by Professor Ahmed Al-Salaymeh of the University of Jordan (UJ) on Economics of Renewable Energy Systems.

# Closing Ceremony – Aqaba Jordan



## Morning Session

March 28th, 2019 – Aqaba, Jordan. The closing ceremony, held at the University of Jordan in its Aqaba campus (UJ-A), served to share the results and outcomes of the lifespan of the DESIRE project in the past three and a half year. Members of academic institutions as well as stakeholders from the industry attended to celebrate the successful closure of the project. The closing ceremony kicked off with welcoming words from the vice-president of UJ-A, Professor Marouf Khalaf, and the Vice-president of German Jordanian University (GJU), Professor Dorit Schumann, who emphasized the importance of this project and the need to build on the solid foundation that has been laid by the DESIRE team. The welcoming remarks were followed by an introduction of the ERASMUS+ projects from the Amman office given by Eng. Asma Al-Smadi, on behalf of the director of ERASMUS+ office in Amman. The DESIRE project coordinator, Professor Ala'aldeen Al-Halhouli, introduced the project, its modules and e-learning platform, along with status and outcomes of the project.



Professor Ahmed Al-Salaymeh of the University of Jordan (UJ) talked about the socio-economic impact of renewable energy projects in Jordan.

A panel discussion among panelists and audience members. The panelists were Professor Ala'aldeen Al-Halhouli (GJU) and with the representatives from the invited stakeholders in the south. The main goal of the discussion was about Renewable Energy and Energy Efficiency: Future perspectives for Jordan.

## Afternoon Session

March 28th, 2019 – Aqaba, Jordan. Professor Ala'aldeen Al-Halhoul along with Eng. Mai AlZu>bi gave an introduction to DESIRE E-learning platform and how to use the e-learning platform. Eng. AL-Zu'bi (GJU) introduced the e-learning platform in details as the audience were following her instructions via their computers, tablets, and smart phones. The session was successful as students and instructors were able to log in and learn how to access all the modules' materials.



# Workshop on Implementation of DESIRE Modules for Southern Universities and Stakeholders in Jordan



March 28th, 2019 – Aqaba, Jordan. The DESIRE team invited universities from the southern region of Jordan to attend a dissemination session of the outcomes of project in an attempt to involve them in the post-project era and have these universities incorporate the created modules to their curricula.

The project coordinator, Professor Ala'aldeen Al-Halhouli of the German Jordanian University (GJU), welcomed the audience and explained what the DESIRE project is and how can the audience gain knowledge and experience from it.

The early session of the dissemination workshop was interactive with the audience, instructors and students, discussing various renewable energy topics and learning how to use the e-learning platform.

Speakers from several Jordanian Universities talked about various related topics. Professor Osama Abu-Zaid of the University of Jordan (UJ): Economics of Renewable Energy Systems. Dr.

Osama Ayyadi (UJ): Technological Innovation of Renewable Energy Systems with a focus on Energy Storage. Prof. Ahmad Al-Salaymeh (UJ): Health, Well-being and Environmental Quality. Also Prof. Al-Salaymeh talked about Climate Effects, Environmental Management, and Sustainable Development.

During the workshop there was a guest speaker Professor Omer Maaitah of Mutah University about promoting youth employment in Remote Areas in Jordan followed by open discussion about job creation in the field of Renewable Energy.

The late session of this dissemination workshop was a panel discussion among panelists and audience members. The panelists were Professor Ala'aldeen Al-Halhouli (GJU) and Dr. Professor Ahmed Al-Salaymeh of the University of Jordan (UJ). The main goal of the discussion was to raise awareness of the industry needs and how universities in Jordan can address them.



## Upcoming Events and Announcements

Please check the **DESIRE website** and social media for announcements and information on upcoming events.

## PARTNERS



Co-funded by the  
Erasmus+ Programme  
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