



# Heba



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# HEBA PROJECT NEWSLETTERS

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HEBA: High Level Renewable and Energy , Efficiency Master Courses

HEBA Project Number

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Website <https://sway.office.com/EarREhbtYHrv6DvZ?ref=Link>



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Erasmus+ Programme  
of the European Union



Welcome to the third Newsletter  
from HEBA project !



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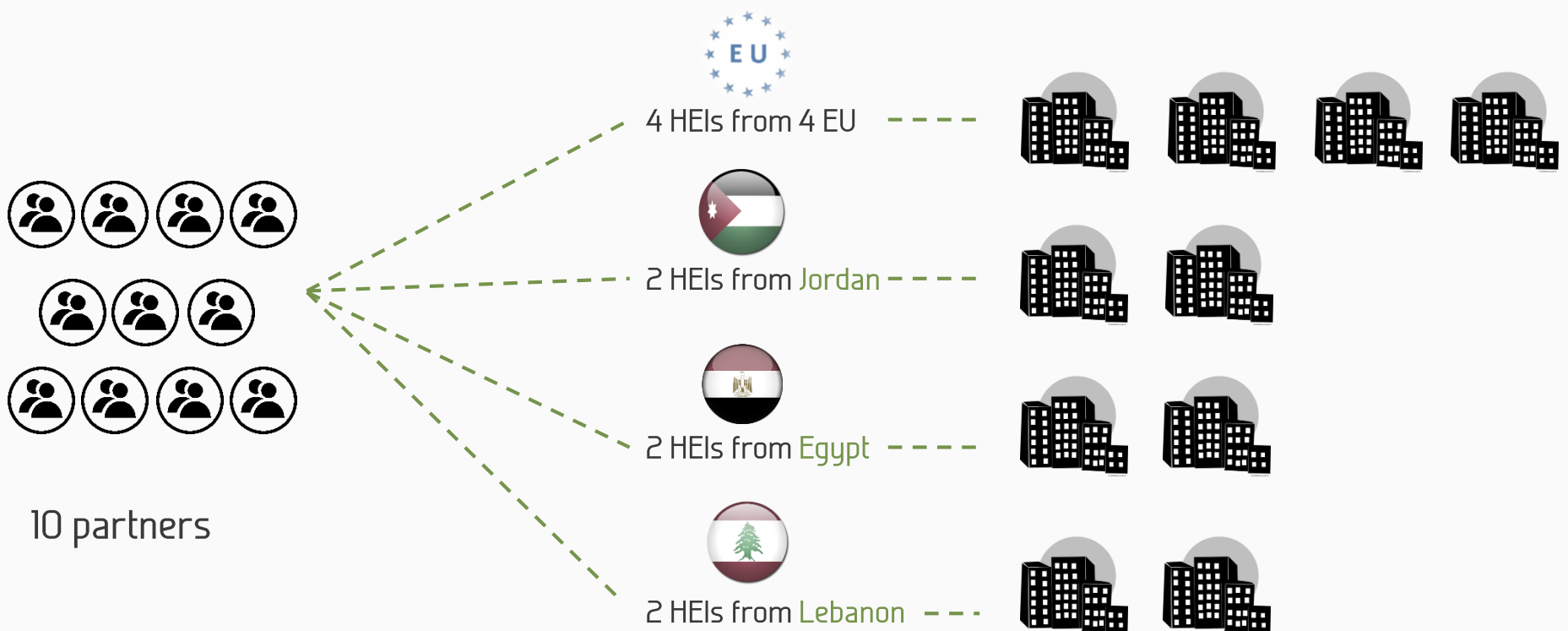


## About HEBA

HEBA is a three-year project started on October 15, 2017, coordinated by University of **Innsbruck (UIBK)** in Austria, and funded by the **European Union** through Erasmus+ programme.



**HEBA** project consortium is composed of **10 partners**, consisting of 4 HEIs from 4 EU member states (**Austria, Germany, Italy, and Cyprus**), 2 HEIs from **Jordan**, 2 HEIs from **Egypt**, 2 HEIs from **Lebanon**.



## The project aims to

- Reform and improve existing master programs in Energy Efficiency (EE) and Renewable Energy (RE) on single technology and energy systems level,
- Improving existing or establishing Centers/ Laboratories of **EE+RE** in **Jordan, Lebanon, and Egypt**.



- The consortium will **help** the society to protect the earth.
- It will help in providing qualified professional resources capable of sustaining and managing the huge effort of EE+RE infrastructure development. Special emphasis will be given to advanced energy management.
- **HEBA** will be oriented to further development of the process of interaction with professional communities and reflects their requirements in the developed curriculum.



The EU experience is a major component in the success of the HEBA project. The courses/modules and adapted curricula within HEBA project should be based on the needs and challenges of the building/industry/energy sectors.

HEBA establishes new modules on Energy Efficiency (EE) and Renewable Energy (RE) that includes EU quality standards; promotion of students and Professors mobility; internationalization of education/training and the use of digital technologies in learning.

## HEBA Partners

### Coordinator



UNIVERSITÄT INNSBRUCK (UIBK), Austria

### Partners



ARAB ACADEMY FOR SCIENCE, TECHNOLOGY AND MARITIME TRANSPORT, Cairo, Egypt



**SAPIENZA**  
UNIVERSITÀ DI ROMA

UNIVERSITÀ DEGLI STUDI DI ROMA LA  
SAPIENZA, Rome, Italy

**TUHH**

Hamburg University of Technology

TECHNISCHE UNIVERSITÄT HAMBURG, Germany



University  
of Cyprus

UNIVERSITY OF CYPRUS, Nicosia, Cyprus



UNIVERSITY OF JORDAN, Amman, Jordan



الجامعة اللبنانية  
UNIVERSITE LIBANAISE

LEBANESE UNIVERITY, Beirut, Lebanon



1866  
AUB  
American University of Beirut  
الجامعة الأمريكية في بيروت

AMERICAN UNIVERSITY OF BEIRUT, Beirut, Lebanon



Helwan  
University

HELWAN UNIVERSITY, Helwan, Egypt



JORDAN UNIVERITY OF SCIENCE AND  
TECHNOLOGY, Irbid, Jordan





## HEBA STC Meeting – AUB\*

### HEBA 2nd Steering Committee Meeting – AUB



American University of Beirut



November 15 and 16, 2018

**AUB's** Department of Mechanical Engineering hosted the second steering committee meeting of the Erasmus+ HEBA project on November 15 and 16, 2018.

The purpose of this meeting was to plan and follow up on on-going and future seminars in the European Union (EU), titled "**Training of Trainers,**" that are related to energy efficiency and renewable energy (EE+RE), as well as the setup of EE+RE laboratories in MENA partner institutions.

The meeting was endorsed by the **Munib** and Angela **Masri** Institute of Energy and Natural Resources at AUB and attended by representatives from the project's partner universities in **Austria, Germany, Italy, Cyprus, Jordan, Egypt, and Lebanon.**



## HEBA ToT Sapienza \*\*

### Training of Trainers in Sapienza University



Sapienza University



January 14 - 18, 2019

Sapienza University of Rome hosted the Training of Trainers of the HEBA project on January 14 - 18, 2019.

18 professors and staff from **Lebanese, Egyptian and Jordanian Universities**, received training in energy efficiency in industry and green manufacturing. The Training included a series of lectures and presentations by professors and experts in the field of energy efficiency and energy management.

On the last day of the training, a technical visit to **CONI** - The Italian National Olympic Committee - was organized, with a specific focus on technical solutions for energy efficiency in a sporting compound.





## Regional Energy Workshop



Dead Sea area - Jordan



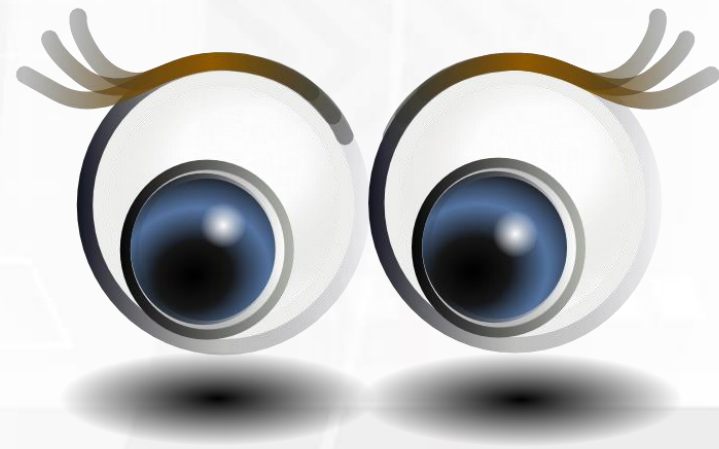
January 29, 2019.

Within the framework of the Erasmus plus project (HEBA) a two-day **Regional Energy Workshop** was organized by the School of Engineering at the University of Jordan under the patronage of H.E. the Minister of Energy and Mineral Resources. The workshop took place on January 29, 2019 in Dead Sea area. The workshop aimed to address the needed updates for the energy strategy in Jordan, and tackle the challenges of socio-economic development and climate change.

The discussion of the workshop contributed to better understanding of the complex relationships between the various power tracks and sustainable development in three selected countries in the MENA region - **Morocco, Jordan and Tunisia** - to come up with effective proposals and recommendations adopted by decision-makers to contribute to the development of the energy strategy in Jordan, which is developed according to economic, technical, social and environmental standards, taking into account the challenges and opportunities facing the energy and electricity sector in the coming years.

## Field Monitoring Visit

I. Lebanon



At the American University of Beirut , Lebanon



February 15, 2019

As part of the Agency on-going monitoring of Erasmus+ CBHE projects, a field monitoring visit to project 'HEBA' took place on February 15, 2019 at the American University of Beirut (Faculty of Engineering) where the monitoring team Dr. Aref Alsoufi, National Erasmus+ Office coordinator, Dr. Amer Helwani and Dr. Abdallah Chebly from the EU Delegation to Lebanon) met representatives from the American University of Beirut (AUB) and the Lebanese University (LU), to discuss project activities and achievements to date in terms of the overall project and not only of the share of project activities the university team present at the monitoring session is responsible for.

The Report on European regulation submitted by UNIROMA1 was shared. It includes the best regulatory practices in EU partner countries. **The aim of this report was** to investigate the importance that regulatory issues about Energy have in the MENA Countries partners of HEBA project and understand their impact in the development of renewable energy technologies and energy efficiency measures.



## II . Egypt

### 5th National Erasmus+ Day 2018



At the Grand Nile Tower Hotel Corniche El Nil ‹Garden City – Cairo



8th of October 2018

The National ERASMUS+ office in Egypt (NEO Egypt) in cooperation with the EU Delegation in Egypt, and the Ministry of Higher Education and Scientific research held the 5th National Erasmus+ Day , at the Grand Nile Tower Hotel Corniche El Nil ‹Garden City - Cairo, on Monday, 8th of October 2018.

The opening session was attended by H.E. Amb. **Ivan Surkoš** - Head of the European Union Delegation to Egypt and H.E. **Prof. Dr. Khaled Abdel Ghaffar** - Minister of Higher Education. The event also included Egypt NEO deputy coordinator, coordinators, and staff.

**2018 results**, 2019 call to action, mobility program testimonials and success stories (of returning scholars' experience) were shared. In addition to activities of the Egyptian Higher Education Reform Experts (Study Visits, Seminars, TAMs, etc.)

## II . Jordan



At the Jordan University of Science and Technology (JUST)



December 3, 2018

A field monitoring visit to project 'HEBA' took place on December 3, 2018 at the **Jordan University of Science and Technology (JUST)** in Jordan, where the monitoring team consisting of Prof. **Ahmad Abu-El-Haija**, Director of National Erasmus+ office and Dr. **Reem Al Khader**, Project Officer at National Erasmus+ office met the team members of HEBA project the Jordan University of Science and Technology (JUST) and The university of Jordan (UJ), to discuss project objectives, training/mobility activities, quality assurance, budget, curriculum and achievements.





### III . AASTMT



At the Arab Academy for Science, Technology and Maritime Transport (AASTMT)



December 26, 2018

A field monitoring visit to project 'HEBA' took place on December 26, 2018 at the Arab Academy for Science, Technology and Maritime Transport (AASTMT) where the monitoring team consisting of Dr. Doaa Samy, Deputy National Erasmus+ Coordinator and Dr. Yasser EL-Shayeb, National Erasmus+ Coordinator Egypt met with Prof. Yasser Gaber Dessouky, AASTMT, and Professors Adel El Samahy and Radwan Hassan Abdel Hammed, Halwani University (HU), to discuss project objectives, training/mobility activities, quality assurance, budget, curriculum and achievements.

The collective feedback with regards to the discussions that took place and the updated information provided on the progress made towards the achievement of the project objectives, was **very positive**.

The monitoring visit revealed all due activities have been implemented without significant delays. Selected feedback on progress made is shown below :



Three types of surveys have been conducted targeting industries active in Energy Efficiency and construction, partner universities and ordinary residential. A national report has been produced together with a list of regional industries. The report has also identified educational needs in the field of Energy Efficiency (EE) and Renewable Energy (RE). A report on European regulations concerning the EE-RE has been produced.



**The syllabi of 8 modules covering 7 areas in the field of EE-RE** has been developed in full collaboration between the partners. Development of didactic materials for the Train-the Trainers sessions is on-going with two trainings organized so far and three planned to take place between now and April 2019. Hundreds of content slides have been produced. A webinar on Bologna requirements was carried out and attended by **12 people from Lebanon**.



Each of the **2 Lebanese** universities has started its own accreditation process with a clear view on how to integrate the new modules into their existing programmes. The Lebanese University will update 9 of its courses and the American University of Beirut will reform 5 courses introduce 2 others and launch an on-line professional diploma of around 30 ECTS.



A draft report for the design of **EEREL** centers has been **distributed** for comments. Discussions will cover the regulations, the scientific plans and the role of these centers. Equipment has started to be purchased and installed.





A Quality manual and a sustainability plan have been defined. Strict procedures for evaluating the progress of the project activities have been put in place involving all partners. Every partner is submitting a 6-month report summarizing all its achievements and following common templates and criteria. Reports at project level are being produced regularly. The project agrees with EACEA to recruit an external independent evaluator.



A communication plan has been set up. Promotion materials have been produced and a project website has been created and hosted by the University of Jordan with a restricted area used as an internal communication platform. Two editions of the project newsletter have been published and the third is under way. The project is disseminated at each institution as well as in many international conferences on the field of Energy Efficiency and Renewable Energy.



A good management system has been set up with many committees related to scientific development, dissemination, quality and EEREL centers. The administrative and financial relationships are governed by a well drafted Partnership Agreement. The project has held 3 consortium meetings so far and preparation for the mid-term report is going on.

## HEBA ToT- Hamburg



Hamburg University of Technology



February 18 - 22, 2019

Hamburg University of Technology hosted the Training of Trainers workshop of the HEBA project on February 18 - 22, 2019. **13 professors and staff** from the **LU, AUB, JU, HU, and AASTMT** received training in solar energy, wind energy, and biomass. The training was dedicated to biogas, combustion, bio-refinery, photovoltaics, solar thermal electricity provision, offshore wind energy.

The training also included an excursion to Energy Hill Georswerder. The Training included a series of lectures and presentations by professors and experts in the field of **energy efficiency and energy management**.



## Pro-Green and AUB Energy Studies Students' Soaring Success Trip to Jordan's Innovative Renewable Energy Sites



American University of Beirut



November 15 and 16, 2018

This successful academic endeavor emerged as a result of the steering committee meeting of the Erasmus+ HEBA project which took place at AUB on November 15 and 16, 2018, and was facilitated with the collaboration of Dr. Ahmad Al-Salaymeh from the University of Jordan.

A group of 10 students from the Pro-Green program and AUB Energy Studies program under the Maroun Semaan Faculty of Engineering and Architecture (MSFEA), along with 3 AUB faculty took part in the 5-day trip to Amman, Al Rajif, Petra, Ma'an, and Tafila from March 2-6, 2019. The technical training trip involved site visits to Al Zaytoonah University, Car Park at Al Quds College, Philadelphia Solar Factory, Ma'an Development Area and 2 wind farms: Al Rajef and Tafila.

You may view the official press release by Al Zaytoonah University on the following link <https://bit.ly/2G8YZ3E>

You may view the official AUB press release by clicking on the following link:

<https://www.aub.edu.lb/articles/Pages/renewable-energy-pro-green.aspx>

Ma'an Development Area published a press release about the trip in their News section:

<http://www.mda.jo/news.aspx?id=2881>

## HEBA ToT- Innsbruck



University of Innsbruck



March 11-15, 2019

The **University of Innsbruck** hosted the Training of Trainers workshop of the **HEBA** project during the period March 11-15, 2019.

**14 professors and staff from partner universities** received training in solar energy in buildings and HVAC systems in buildings.

The Training included a series of lectures and presentations by professors and experts in the field of energy efficiency and energy management. The training was dedicated to HVAC compact units, solar thermal systems and building integration, some HVAC related elements of Applied Thermodynamics, HVAC systems in buildings, solar thermal simulation, and ventilation.

The training also included an excursion to **Siko Solar**, Austria's oldest record holder solar farm.









SUSTAINABLE  
MEETING  
WORKSHOPS  
ENERGY  
TRAINING  
RENEWABLE

## What's Coming Up Next



The 4th HEBA SC-Meeting will take place in Hamburg May 2-3, 2019. The meeting will be dedicated to discuss the progress in different work packages and to update the implementation plan



# Contact Us



Visit us on the web at

<http://sites.ju.edu.jo/en/heba/Home.aspx>



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**COMING SOON**


**NEWSLETTER 4**  
**WAITING .. !**







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