



# ENERGY SMART MEDITERRANEAN SCHOOLS NETWORK (ESMES)

Updates on Project Activities in Lebanon



## 01 CONTRACT SIGNED

### THIS ISSUE INCLUDES:

1. Contract Signed
2. Energy Teams - Trainings
3. Visual Art Contest
4. Energy Efficiency Tips Video
5. Other ESMES Activities

- Following a Request for Proposals (RFP) to Implement Solar Photovoltaic (PV) Systems with Battery Storage in Three (3) Public Schools in Lebanon, the contract was signed with the winning bidder on November 18, 2022.
- The project has a total capacity of **67 kWp** of solar PV panels and **120 kWh** of battery storage.
- The main goal behind this activity is to increase the use of renewable energy in public schools and improve their energy security.



## 02 ENERGY TEAMS-TRAININGS / SOLAR

ESMES Team



Energy Team

Energy Team



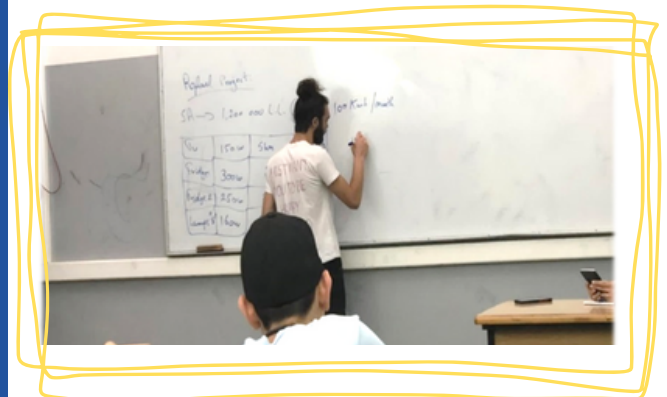
School

Several trainings have been delivered to senior technical students in Ecole des Arts et Metiers.

The first training aimed at introducing the students to the world of solar PV systems. It also explained the different types and components of PV systems as well as general tips on the installation of these systems.



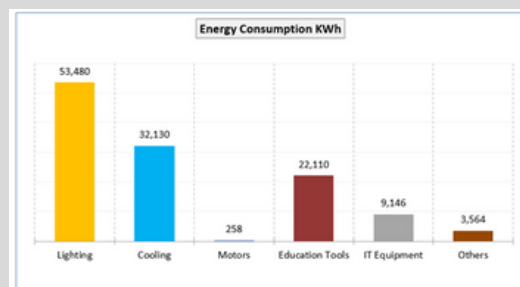
Another training was delivered to the same students, covering the design and sizing of solar PV systems given different site conditions and load profiles. The training included a real-life example of sizing PV systems for residential apartments in which students studied the load patterns of their own apartments and sized the systems accordingly.





## 02 ENERGY TEAMS- TRAININGS/AUDIT

Trainings related to **energy audit** were conducted by EEG (an Energy Service Company) on December 14, 2021 and June 7, 2022 respectively.



Annual Energy Consumption by Category- Ecole des Art et Metiers

The first training session concentrated on work methodology, the steps to be followed to define and breakdown energy consumption, and baseline data. The various work phases, the people involved, and the equipment used for measurements and data collection were all covered in the training.



The second training session covered the phases that followed the collection of baseline and energy consumption data. It also explained the reasoning behind the suggested renewable energy and energy efficiency measures, with the projected savings in terms of energy and cost.



## 03 VISUAL ART CONTEST

ESMES team launched the 1st visual art competition among ESMES Energy Teams in the selected 5 public schools. It was a great opportunity for students to showcase their passion for the environment and energy efficiency through visual art.

Primary students submitted their best visual art representations on September 15, 2021, which included sketches, paintings, and drawings about renewable energy, energy efficiency, or sustainable living. The best submissions were featured on the LCEC social media channels and website.

**EACH ENERGY TEAM CONSISTS OF:**

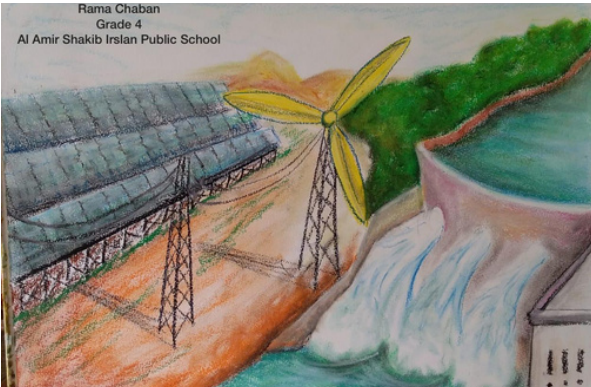
1. School Principal
2. Two Teachers
3. Ten Students



Hosh el Omara Public School



Al Barouk Public School



Shakib Erslan Public School



Majadel Public School



## 04 ENERGY EFFICIENCY TIPS VIDEO



Members of the ESMES Energy Teams in public schools shared, in their own words, ways to improve daily energy habits, promote energy efficiency measures, and use our natural resources as wisely as possible.

Accordingly, a video was created using the input of students from all energy teams, and was published on all the LCEC social media channels on July 27, 2022.

### The ESMES - ENI CBC Med Project energy teams from public ...



facebook · Watch · The **ESMES** - ENI CBC Med Project energy teams from public schools in #Lebanon share in their own word...

Facebook · LCEC The Lebanese Center for Energy Conservation · Jul 27, 2022



## 05 OTHER ESMES ACTIVITIES

**Smart energy meters** were installed in the selected 5 public schools and Ecole des Arts et Metiers as the selected technical school. The meters are now operational and functional.

The importance of these meters is to monitor the consumption of the schools and observe the impact of daily energy saving habits. It also serves as a baseline for future energy related projects.



ESMES project was featured in the **National Urban Forum** on March 22 and 23, 2022. The first National Urban Forum of Lebanon was held at the UN ESCWA in Beirut, as part of UN-Habitat’s mandate to promote socially and environmentally sustainable towns and cities.

The ESMES project was highlighted through a booth put up for two days where visitors learned about ESMES objectives and activities and were given bottles with the ESMES logo printed on them. This increased awareness of the initiative across the country.





**More information about ESMES project is available at:**

[LCEC Website](#)

[ENI CBC Med Programme website](#)

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