



BUILD\_ME



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# BUILD\_ME Factsheet Lebanon: About the low-energy buildings sector

Updated: August 2021

## Recent developments

- The construction sector continues to be affected by a diversity of crises in Lebanon: economic, financial, and political; in addition to the effects COVID-19 pandemic and the tragic explosion at the Beirut port.
- The solar ordinance is currently being finalised and will soon be adopted by the Government of Lebanon. New buildings and buildings under major renovation are required to install solar water heaters and/or heat pumps.

### Macro-economic Indicators

**6.8 M** Inhabitants (2020)<sup>1</sup>

**7.8 k\$** GDP per capita (2019)<sup>2</sup>

**136.8%** Average inflation rate\* (2020)<sup>3</sup>

**0.12 USD /kWh** Average electricity price (2020)<sup>4</sup>

### Building Sector

**-17%** New construction rate\*\* (2020)<sup>5</sup>

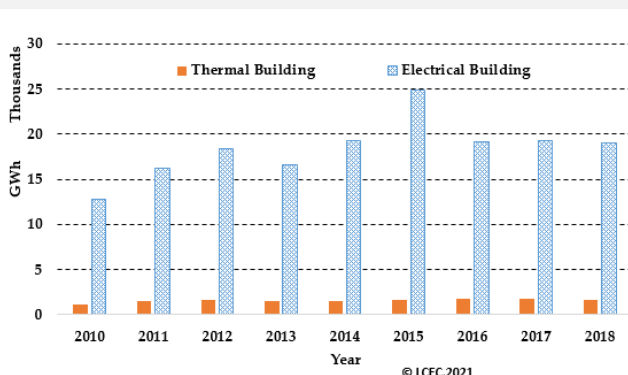
**7.9M LBP/m<sup>2</sup>** Average cost of new construction (urban multi-family houses) (2017)<sup>6</sup>

**1.26 M** Number of single/multi-family households (2019)<sup>7</sup>

**20,884 GWh** Energy consumption of the building sector (2018)<sup>8</sup>

**31%/69%** Dwelling ownership structure: Rented/owned (2019)<sup>9</sup>

### Final Energy Consumption of the Building Sector



### Typical Energy Efficiency Measures

#### Residential

- 1) Thermal insulation & double glazing
- 2) LED lighting
- 3) Solar water heater and Photovoltaics
- 4) Variable refrigerant flow (VRF) system
- 5) Energy Efficient Appliances

#### Non-residential

- 1) Variable refrigerant flow (VRF) system
- 2) Variable frequency drives (VFDs) and variable voltage variable frequency drives (VVFIs)
- 3) Heat Recovery (industrial sector)
- 4) Photovoltaic
- 5) Energy Efficient Equipment

To download this factsheet and find out more about the BUILD\_ME project, visit [www.buildings-mena.com](http://www.buildings-mena.com).

\*Yearly change between 10/2019 - 10/2020, based on consumer price index. \*\*Includes only permits issued by the orders of Engineers and Architects in Beirut from 09/2019 to 09/2020. Sources: 1) United Nations Population Fund 2) The World Bank. 3) Central Administration of Statistics 4) EDL 5) Bankmed 6) Lebanese Examiner 7) ILO 8/ LCEC Internal Database 9) ILO



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# BUILD\_ME Factsheet Lebanon: Project Activities

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**CLIENT:** International Climate Initiative funded by the German Federal Ministry for the Environment, Nature Conservation and Nuclear Safety (BMU)

**DURATION:** 2016 - 2021

## CONTACT

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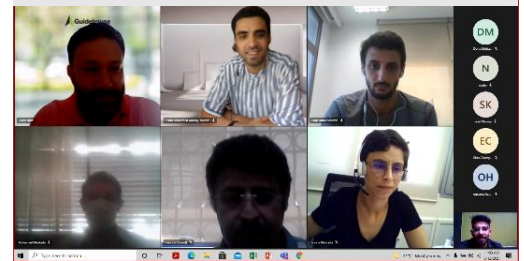
### BUILD\_ME highlights in Lebanon from the first half of 2021:

- Impact assessment of the NEEAP
- Recommendations to the regulative framework of EE in the building sector
- Trainings on the BEP Tool to bankers and project developers
- Third national workshop held on 18 March 2021

## Policy Recommendations

- Assessing the impact of the measures formulated in the NEEAP
- Developing a set of technical, financial, institutional and regulatory, capacity building and awareness recommendations to accelerate the development, implementation and enforcement of EEBCs.

### BUILD\_ME online training in August 2021 for architects and project developers.



## Tools

- The demonstration projects database includes over 20 projects from Lebanon. Click [here](#) to upload your own project.
- Buildings Energy Performance (BEP) Tool launched. Click [here](#) to explore the Tool.

## Dissemination & Trainings

- Training of trainers on climate-friendly buildings and using BUILD\_ME's BEP Tool.
- Trainings for bankers/financial institutions and architects/project developers on 11 and 12 August respectively.
- Download training materials [here](#).

## Pilot Projects

- Collaboration with four pilot projects is ongoing, three of which are finalising the energy conception phase of technical assistance.
- As a result of a struggling economy and reduced access to financing, investments for energy efficiency projects have become challenging. As a result, two pilot projects have suspended their planning/construction activities.



### Tabarja

- Kye Beachfront Resort

### Beirut

- Collège Notre Dame de Nazareth
- Arcade Suites II (on hold)
- KLEOS
- Frames
- City Towers (on hold)

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