



## NZEB\_LAB

### PV: Test of PV different technologies of modules under on-site natural conditions

#### DESCRIPTION OF THE INFRASTRUCTURE

Name of the infrastructure: NZEB\_LAB  
 Location (town, country): LNEG, Polo do Lumiar, Lisbon, Portugal  
 Web-site: [www.lneg.pt](http://www.lneg.pt)  
 Legal name of the organization operating the infrastructure: LNEG  
 Location:

#### SERVICE PROVIDED

Service Name: Test of PV different technologies of modules under on-site natural conditions



#### Associated equipment:

- Curve tracers PVPM6020C; PVPM 1040C
- Back surface temperature sensors
- Irradiance sensors: PV reference cells and pyranometers

#### Method:

- Test of PV different technologies of modules, strings or arrays: Measurement of photovoltaic current-voltage (I-V Curve) characteristics under on-site conditions and their translation to standard test conditions (STC).
- For a particular module, on-site measurements translated to STC can be directly compared with results previously obtained in a laboratory or factory.

IEC 60904-1 Photovoltaic devices – Part 1: Measurement of photovoltaic current-voltage characteristics  
 IEC 61829, Photovoltaic (PV) Array – On-site measurement of current-voltage characteristics

#### Deliverables:

Test report with measured performance characteristics and performance characteristics expected under Standard Test Conditions. Includes the description of the test environment, weather conditions, location of sensors and possible sources of errors (reflections, shadings, ...)

#### Testing period (weeks/year):

To be defined

#### Costs:

On request

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