



Enel Innovation Hub/Lab in Catania

The 1st call for Start-ups and SMEs

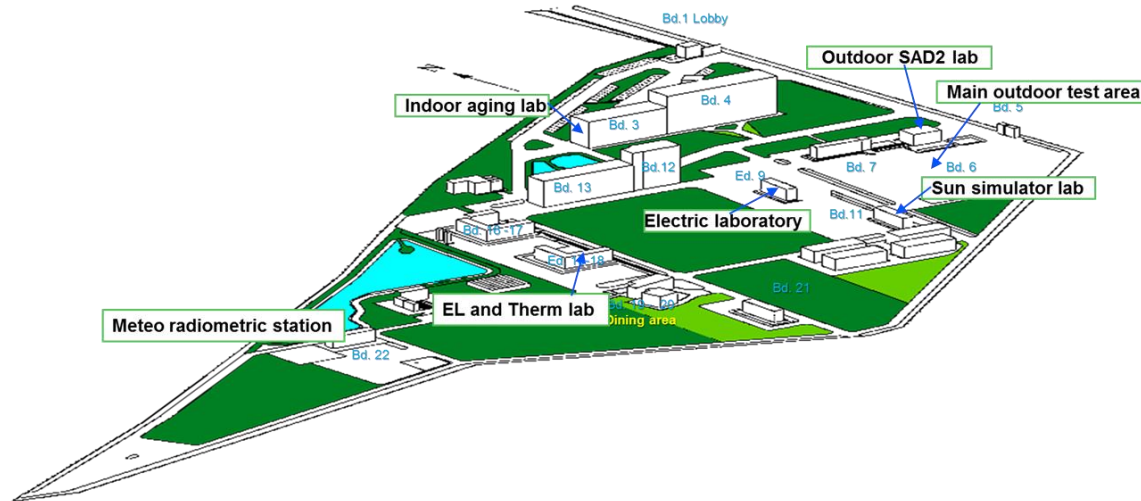




Site and laboratories

Enel Innovation Lab

The site



Total site area	100,000 mq
Indoor laboratories	1,000 mq
Outdoor test area	30,000 mq
Main building offices (3 floors)	1,800 mq
Additional building offices (3 floors)	600 mq

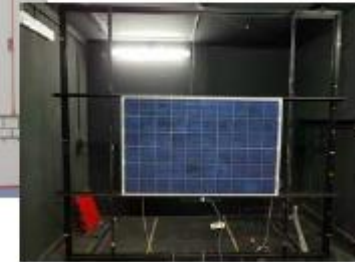
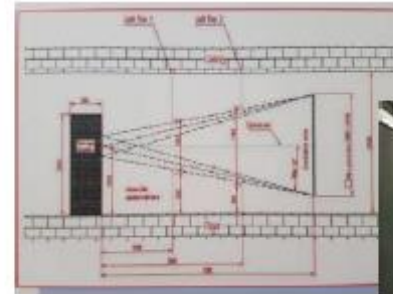
Enel Innovation Lab Indoor laboratories



Climatic chambers



Microgrid and storage



Solar Simulator



Mechanical load test



Electrical safety tests



*Electroluminescence and
Thermography Lab*



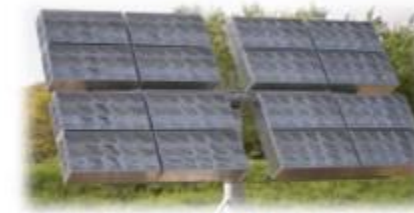
Enel Innovation Lab Outdoor laboratories



*Outdorr bench for PV modules
performance evaluation*



Bi-axial solar tracker



*Outdoor test station
for CPV-CSP*



Bifacial modules test bench



Meteo station



*PV floating test
facility*

Accredited IEC 17025 EGP PV laboratory

Global solar market needs regulation and standard for products quality assessment



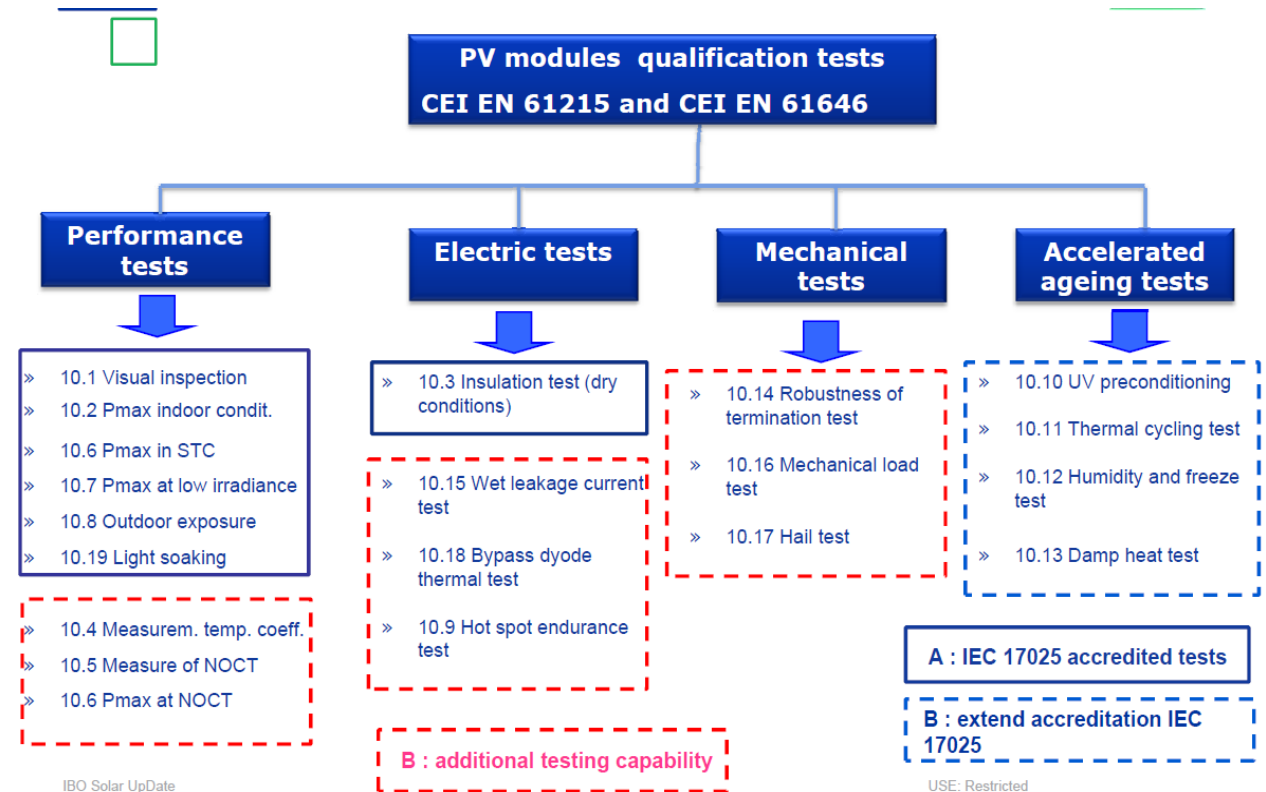
Advantages :

Accreditation promotes cost-effective testing and measurement activities with quality adjusted to the needed level : no more, no less! Accreditation favors the valorization of EGP testing activities. A test report with ILAC MRA mark is accepted among ILAC members including 64 organization in 52 countries

Application

Quality improvement of testing results in :

- manufacturers selection process and PV vendor qualification with ranking of products (BD),
- evaluation of PV design process (E&C),
- detection of early failure on the field (O&M)
- certification of 3Sun products

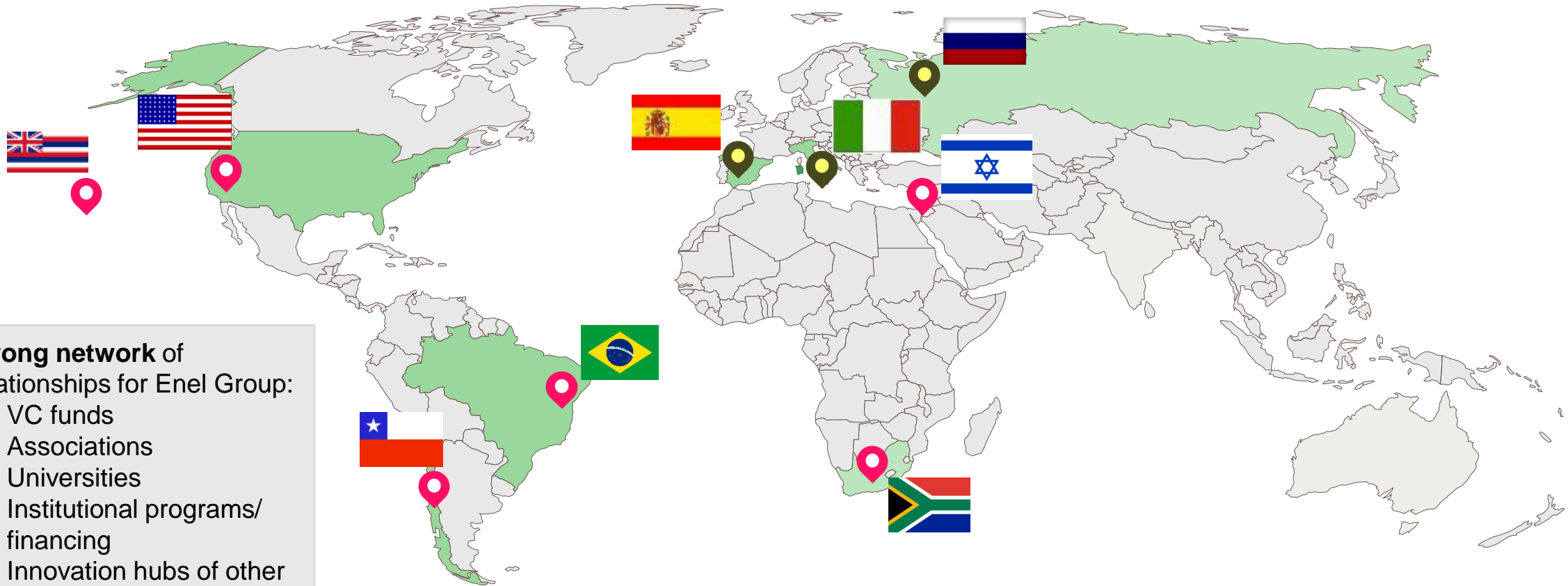


IBO Solar UpDate
Catania, Nov #2015

USE: Restricted



Enel Innovation Hubs

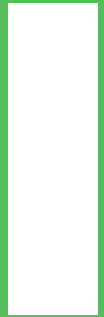
Truly Global Network to promote exchange of ideas and contacts



Strong network of relationships for Enel Group:

- VC funds
- Associations
- Universities
- Institutional programs/ financing
- Innovation hubs of other companies
- Accelerators
- Incubators
- ...

 HUB active
 HUB to be launched



The 1st call for Start-ups and SMEs

The 1st call of Enel Innovation Hub in Catania

Target



Who can apply

- The call is open to **companies that have developed a new product/service** that could be of interest for the ENEL Group
- **The innovative solution must have a solid technical and scientific background and it should have been already demonstrated**, even at a preliminary stage, in an operational environment

Timing

- Application are accepted from any country from 27th of September 2017 to 15th of November 2017 through the crowdsourcing platform www.openinnovability.enel.com

The 1st call of Enel Innovation Hub in Catania

Topics



1

New module technologies for solar generation

2

Components and devices for optimizations of the performances of renewable plants

3

Automation and artificial intelligence for construction and maintenance of renewable plants

4

Hybrid generation systems from renewable sources

5

PV Floating solutions

6

New technologies and augmented reality for increased safety and operations improvement

7

Innovative digital services for energy (IoT, Big Data Analytics, Predictive and automatic O&M)

8

Distributed Energy Resources Aggregation

The 1st call of Enel Innovation Hub in Catania

Enel's value proposition



Access to Enel's commercial network



Access to accredited LAB and test areas



Location high-tech and co-working areas



Access to Enel's international networks through Hubs (VCs, Business Angels, etc..)



Implementation of a dedicated acceleration program