



# **Enel Innovation Hub/Lab in Catania**

## **The 1<sup>st</sup> call for Start-ups and SMEs**

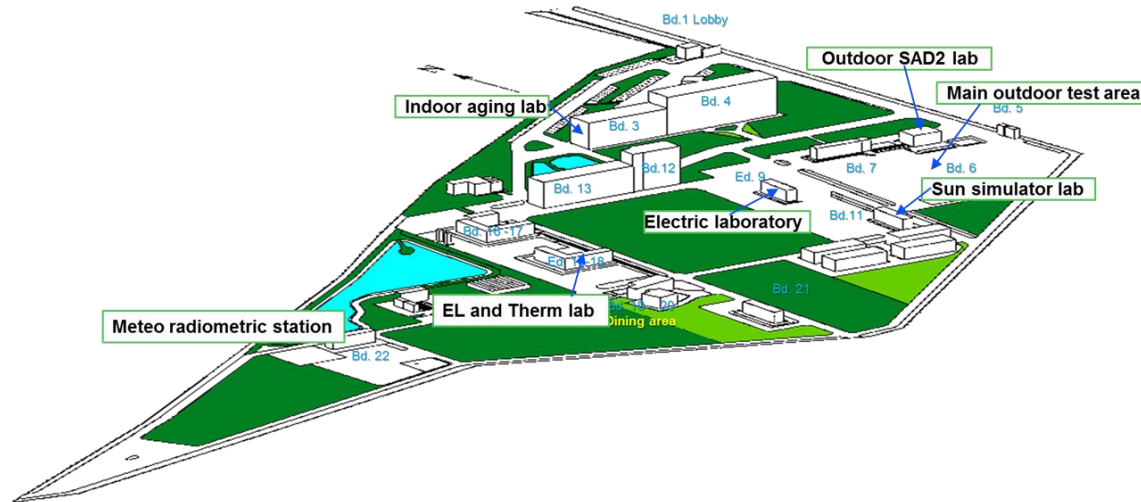




## Site and laboratories

# 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

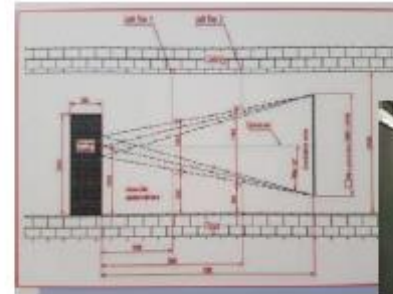
# Enel Innovation Lab Indoor laboratories



*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



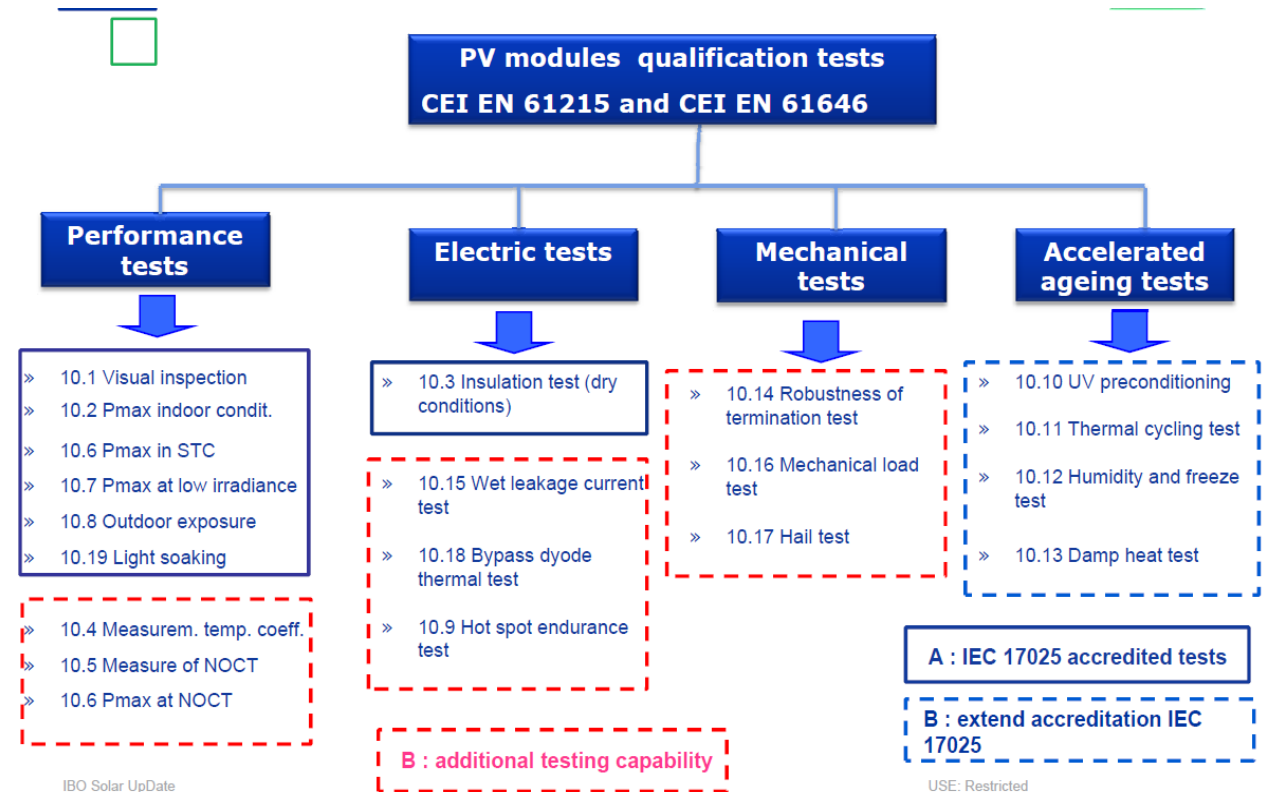
## Advantages :

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

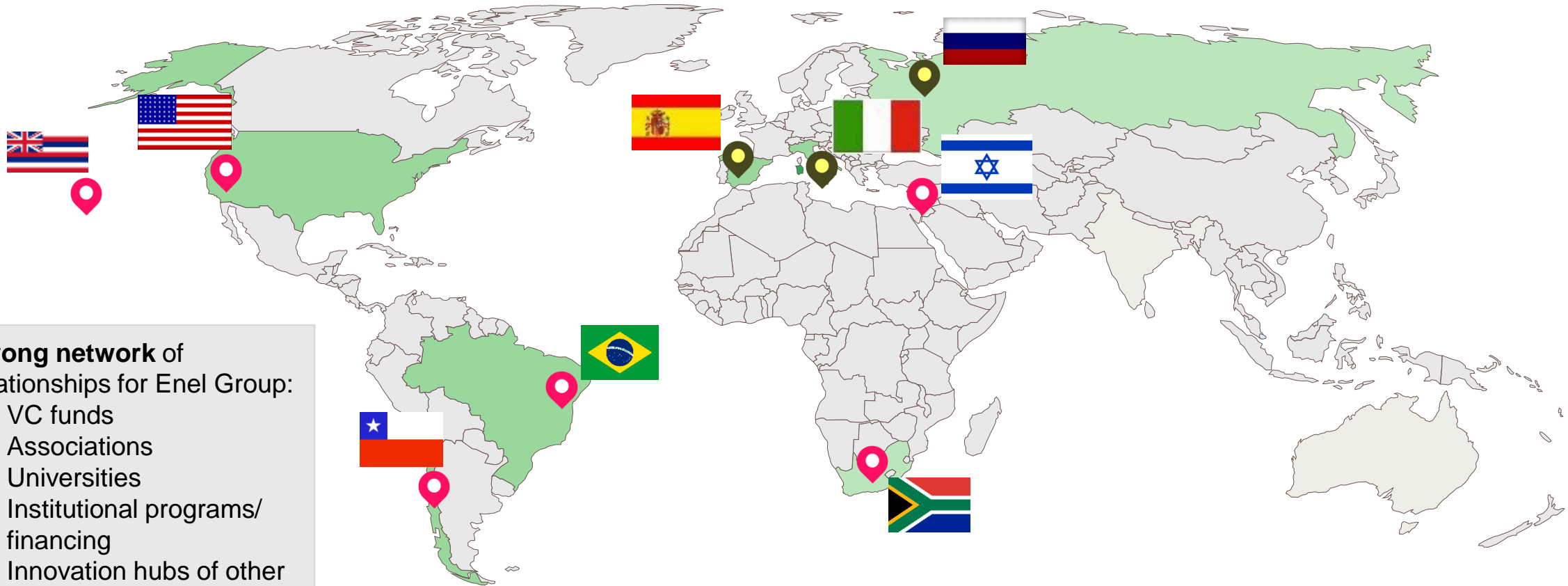


IBO Solar UpDate  
Catania, Nov #2015

USE: Restricted



# Enel Innovation Hubs

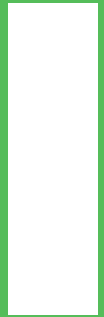
## Truly Global Network to promote exchange of ideas and contacts



### 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 1<sup>st</sup> call for Start-ups and SMEs



# The 1<sup>st</sup> 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 27<sup>th</sup> of September 2017 to 15<sup>th</sup> of November 2017 through the crowdsourcing platform [www.openinnovability.enel.com](http://www.openinnovability.enel.com)

# The 1<sup>st</sup> 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 1<sup>st</sup> 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**