Enel Innovation Hub/Lab in Catania

The 1st call for Start-ups and SMEs
Site and laboratories
Enel Innovation Lab
The site

<table>
<thead>
<tr>
<th>Area</th>
<th>Size</th>
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<tbody>
<tr>
<td>Total site area</td>
<td>100,000 mq</td>
</tr>
<tr>
<td>Indoor laboratories</td>
<td>1,000 mq</td>
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<tr>
<td>Outdoor test area</td>
<td>30,000 mq</td>
</tr>
<tr>
<td>Main building offices (3 floors)</td>
<td>1,800 mq</td>
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<tr>
<td>Additional building offices (3 floors)</td>
<td>600 mq</td>
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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

Outdoor bench for PV modules performance evaluation

Bi-axial solar tracker

Outdoor test station for CPV-CSP

Bifacial modules test bench

Meteo station

The little basin of Passo Martino

PV floating test facility
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 organizations 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
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 - ...
The 1<sup>st</sup> 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 1\textsuperscript{st} call of Enel Innovation Hub in Catania

#### Topics

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<tr>
<th></th>
<th>Description</th>
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<tbody>
<tr>
<td>1</td>
<td>New module technologies for solar generation</td>
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<tr>
<td>2</td>
<td>Components and devices for optimizations of the performances of renewable plants</td>
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<tr>
<td>3</td>
<td>Automation and artificial intelligence for construction and maintenance of renewable plants</td>
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<td>4</td>
<td>Hybrid generation systems from renewable sources</td>
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<td>5</td>
<td>PV Floating solutions</td>
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<tr>
<td>6</td>
<td>New technologies and augmented reality for increased safety and operations improvement</td>
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<tr>
<td>7</td>
<td>Innovative digital services for energy (IoT, Big Data Analytics, Predictive and automatic O&amp;M)</td>
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<tr>
<td>8</td>
<td>Distributed Energy Resources Aggregation</td>
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The 1\textsuperscript{st} 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