January 11th, 2022

OneNet Open Call
December 1st, 2021 - February 1st, 2022

Scenario 4 – Spanish Demonstrator: Flexibility provider engagement to test local markets able to alleviate network congestions at medium and low voltage network levels

This project has received funding from the European Union’s Horizon 2020 research and innovation programme under grant agreement No 957739
Agenda

- 1. Introduction
- 2. Spanish demo: Overview
- 3. Requirements:
  - General description
  - i-DE demo sites
  - UFD demo site
  - Specific requirements and evaluation
- 4. Benefits
1. Introduction: Spanish Demo - Western Cluster WP9 (D9.1)

Description:
- Congestion management at the distribution level
- Local markets
- Local market platform (LMP)
- Market participants:
  - 2 DSOs
  - 1 IMO
  - FSPs

Call need:
Flexibility service providers
### 2. Spanish Demo - Overview

<table>
<thead>
<tr>
<th>Service</th>
<th>Product</th>
<th>Market design</th>
<th>BUC</th>
<th>SUC</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Congestion Management</strong></td>
<td><strong>Corrective</strong> active power for congestion management</td>
<td>Corrective local active</td>
<td>Real time</td>
<td><strong>ES-2</strong> Short-term congestion management</td>
</tr>
<tr>
<td></td>
<td><strong>Predictive</strong> active power for congestion management</td>
<td>Predictive short-term local active</td>
<td>Day ahead</td>
<td><strong>ES-1</strong> Long-term congestion management</td>
</tr>
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<td></td>
<td></td>
<td>Predictive long-term local active</td>
<td>Long term</td>
<td></td>
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Public Deliverables:
- **D2.2** – Products and services
- **D2.3** – BUCs for the OneNet
- **D3.1** – Overview of market designs
- **D5.1** – OneNet concept (SUC)

P: Active power  
A: Availability  
E: Activation (Energy)

*short-term activation submarket (P-E) after long-term availability market (before need time)*
3. Requirements – General description (1/4)

<table>
<thead>
<tr>
<th>What</th>
<th>Flexibility Service Providers that can offer different type of flexibility resources</th>
</tr>
</thead>
<tbody>
<tr>
<td>How</td>
<td>An aggregator, or the owner or the representative of large-scale or small-scale assets with at least 100kW of capacity for flexibility</td>
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<tr>
<td>Where</td>
<td>Connected to the distribution system at specific areas in Madrid and/or Murcia</td>
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<tr>
<td>Why</td>
<td>To test new local markets able to alleviate network congestions at medium and low voltage levels</td>
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</table>

Prepare/Pre-qualification → Market phase → Monitoring/Activation → Measurement phase
3. Requirements – iDE Demo sites (2/4)

North of Madrid, Cantoblanco

North of Murcia, Espinardo neighborhood
3. Requirements – Demo sites (3/4)

- The UFD demo is located in the south-west area of Alcalá de Henares (Madrid), where UFD is the DSO (see electrical network in the figure).
- Actually, several FSPs are collaborating in the demo: Sport facilities, Metallurgical and Food Industry.
- We are mainly interested in FSPs that can include generation, although it is not compulsory, or aggregator that can be able to join different kinds of FSPs in the UFD network.
3. Specific Requirements and Evaluation (4/4)

<table>
<thead>
<tr>
<th>Requirements:</th>
<th>Evaluation:</th>
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<tbody>
<tr>
<td>✓ SMEs and Start-ups legally established in an EU Member State or in an Associated Country</td>
<td>✓ Type of resources commitment</td>
</tr>
<tr>
<td>✓ Must attach <strong>documentation</strong> evidencing <strong>commitment</strong> of resources from the FSPs that they represent</td>
<td>✓ Geographical location</td>
</tr>
<tr>
<td>✓ Must specify the kind of resource/s and the volume of available flexibility (&gt;0,1MW)</td>
<td>✓ Availability and capacity for resources activation</td>
</tr>
<tr>
<td>✓ Must be <strong>connected</strong> to medium or low voltage levels at DSOs networks participating in Spanish demo at some of the selected areas</td>
<td>✓ Price for availability and activation</td>
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<td>✓ Agree to communication and cooperation activities</td>
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<td>✓ Viability of technical solution for monitoring and receiving set points</td>
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<td>✓ Innovation degree</td>
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</table>
4. Benefits for getting involved

- Learn from European Project
- Develop and test new tools and technologies for participating in future markets
- Demonstrate the capacity to open the market to new actors
- Analyze the behavior of different type of flexibility resources
- Increase the amount and value of information to be sent from the Local Market platform to OneNet system
- Strengthen the OneNet community

Apply by 01. February 2022

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Thank You

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