ACER workshop on electricity storage

Ljubljana, 11/05/23
smartEn members

Responsible for 13GW of flexible demand in 15 European countries
Market access of smaller assets

• To avoid discrimination mass market small DERs on household-level should not be treated differently throughout the union to not risk free market distortions by local (protectionist) grid connection rules.

• For small scale small building power-generating units produced in mass, the network code should refer to default type tested communication interfaces derived from IEC standards.
  • Based on IEC Standards such as IEC 61850-7-420 and IEC 62325
Maximum Capacity

• For distributed power-generating modules the maximum capacity shall be evaluated at the connection point as the maximum export power that one or several power-generating modules could offer. By distributed, it is assumed energy resources or assets located on prosumer premises, behind their connection point.
  • For V2G or battery storage, the generating power is always controlled
  • Generating power at the connection will never be the sum of the maximum generating power of each units behind the connection point
Power Generating Categories

• A power-generating module is of type A if its maximum capacity is below the threshold specified in Table 1.
  • Subcategories of type A shall be introduced to ease the harmonisation through the Member States aiming for a better alignment of the minimum of the maximum capacity thresholds across Member States as,
    • (i) maximum capacity between 0,8 kW and 7,4 kW (32 A single phase) (Type A1)
    • (ii) maximum capacity between 7,4 kW and 11,1 kW (single and three phases) (Type A2)
    • (iii) maximum capacity between 11,1 kW and 50 kW (Type A3)
    • (iv) maximum capacity between 50 kW and 250 kW (Type A4)
    • (v) maximum capacity between 250 kW and 1 MW (Type A5)
Thanks

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National 5% **peak electricity demand reduction** target: **4 options** on how to **implement** it

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<th>A market-based, fit-for-purpose TSO service</th>
<th>A market-based, fit-for-purpose DSO product</th>
<th>Day-ahead wholesale market access to all consumers</th>
<th>Peak demand reduction obligation scheme</th>
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<td>How do consumers receive signals?</td>
<td>Through aggregator/supplier, 1 day before activation, via direct comm (app/e-mail) and/or automated devices</td>
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<td>Financial compensation? For whom? What for?</td>
<td>Activation payments from TSO to aggregators/suppliers during dispatch</td>
<td>Activation payments from DSO to aggregators/suppliers during dispatch</td>
<td>Market compensation to aggregators/suppliers operating as an aggregator</td>
<td>White certificate for the obligated party and market compensation for delivery to the aggregators/suppliers</td>
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<td>Capacity availability payment is an option</td>
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<td>Measurement/Verification</td>
<td>- Through smart meter or sub-meter for ex-post verification</td>
<td>- Baseline proposed by aggregators/suppliers and approved by NRA</td>
<td>- Measurements to be audited by 3rd parties</td>
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<td>Reference</td>
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