

Developing the Batteries of the Future: Actions to Take Today

EU Industry Days

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The batteries manufactured now contribute to the creation of new systems and value chains

In 2030, the landscape will be completely different







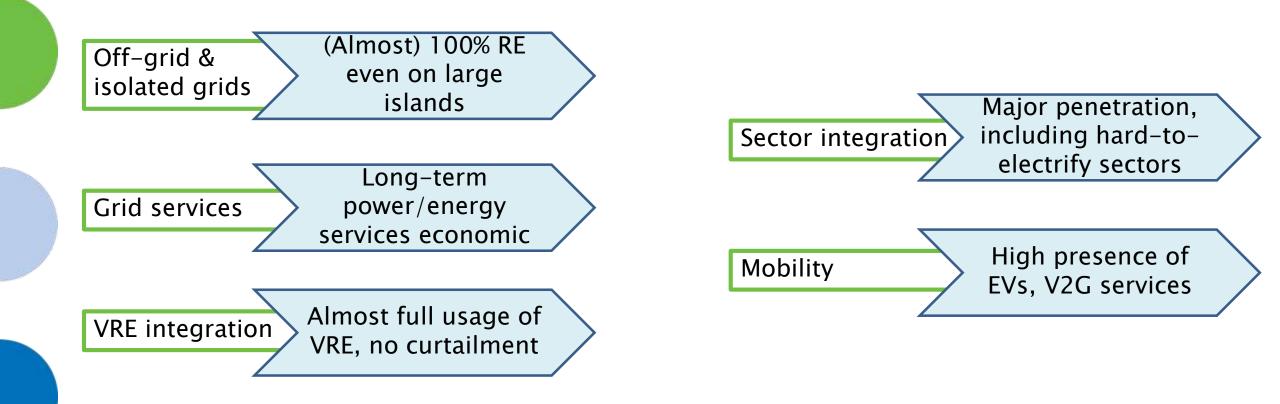






Future energy system

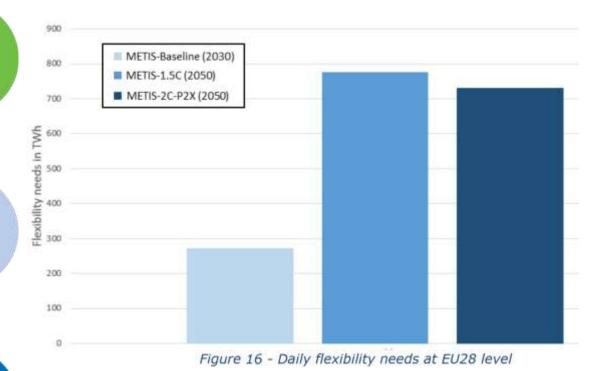
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An example: flexibility

Increase in need for flexibility



• EU 2030 scenario: power demand of <u>at least</u> 3500TWh

• EU 2050 scenarios power demand of <u>at least</u> > 7000TWh

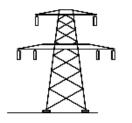
Batteries are a key flexibility provider

And the market is already changing...



Battery Storage Market

Significant changes in the past years



Front of the Meter

- New market products/ancillary services for new value streams, e.g.:
 - Fast Reserve in Italy
 - Firm Frequency Response in the UK



Commercial & Industrial

- New, dramatically diverse business cases across Europe
 - ✓ Agriculture: dairy industry to provide peak shaving in Ireland...
 - ✓ Public buildings to improve energy efficiency in Switzerland...



Behind the Meter

- New business models based on IoT, smart services
- Growing customer awareness
- Emergence of "energy communities", V2G solutions



To untap this potential, Europe needs sustainable batteries...

- Where different technologies compete and provide different services
- Where innovation is strong
- Where environmental and social concerns are tackled, and a circular economy-approach is adopted

Where the legislation...

- Is technology neutral, avoiding picking "winners and losers"
- Adopts ambitious, proper, science-based recycling rates and where batteries' content is recycled e.g. within the industry, not necessarily in new batteries
- Does not hinder innovation e.g. avoiding performance and durability requirements that may be rapidly outdated and prevent manufacturers from introducing specific solutions for different clients
- Does not overlap, ensuring legal clarity and proving certainty for investors



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