

Energy Storage: Key Technology for the EU Green Deal and COVID-19 Recovery

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Webinar Technology Watch EF

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Introduction to EASE

The European Association for Storage of Energy (EASE) is the **leading member-supported association** representing organisations active across the entire energy storage value chain.

EASE **supports the deployment of energy storage** to accelerate the cost-effective transition to a resilient, carbon-neutral, and secure energy system.

EASE **represents more than 50 members** including utilities, technology suppliers, research institutes, distribution system operators, and transmission system operators.



Awareness raising

Raise awareness about the benefits of energy storage, as well as its crucial role in supporting the energy transition.



Information-sharing

Serve as a platform for information-sharing and debate on different technologies, applications, and business cases.



Market design

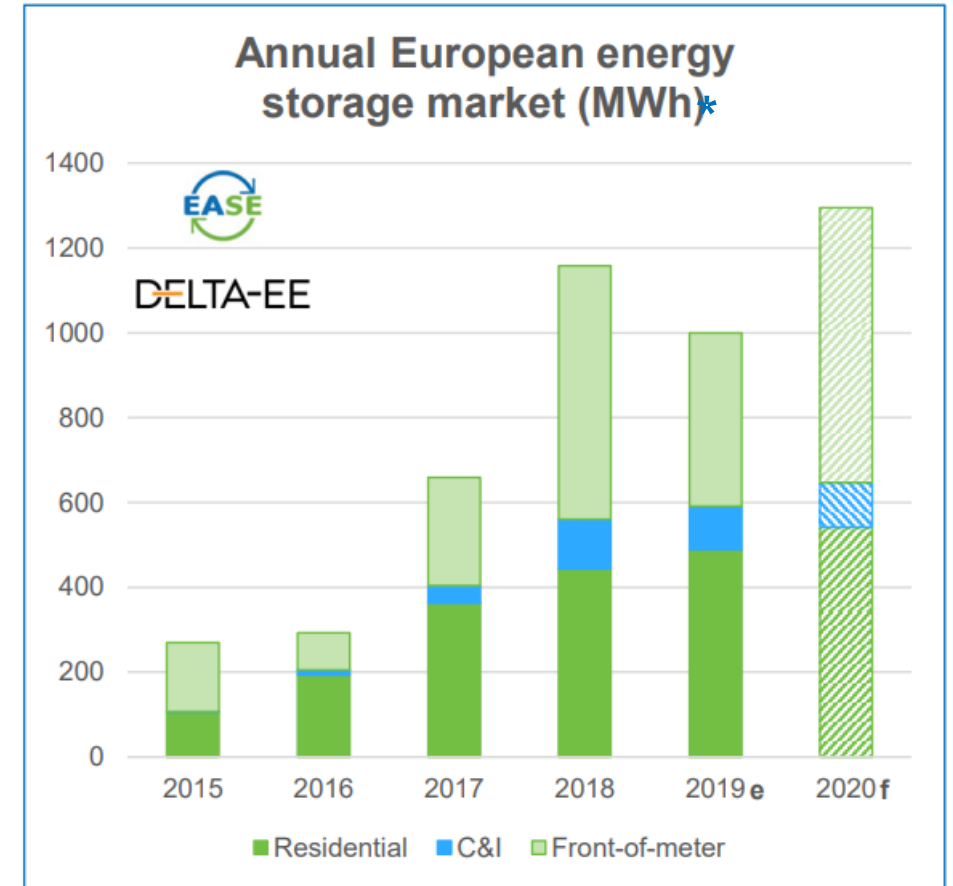
Promote a fair and future oriented energy market design that recognises storage as a central element of the energy system.

Introduction to EASE



Energy Storage in the EU – Technology Deployments

- ❖ As of May 2020, the EU+UK had an estimated installed base of **4.8 GWh across all storage segments** (stationary storage excl. PHS)
- ❖ **Pumped Hydro Storage still accounts for over 90%** of installed EU energy storage power capacity
- ❖ Electrochemical storage (e.g. li-ion batteries) is quickly gaining in market share
- ✓ Leading markets UK, Ireland, Germany



* Stationary electrical, electrochemical and mechanical storage (with the exception of pumped hydro storage).

Source: [EASE, Delta-ee: European Market Monitor on Energy Storage 4.0](#) (March 2020)

0.6 GWh

Cumulative market size

4.8 GWh

Energy Storage in the EU – Policy and Regulation

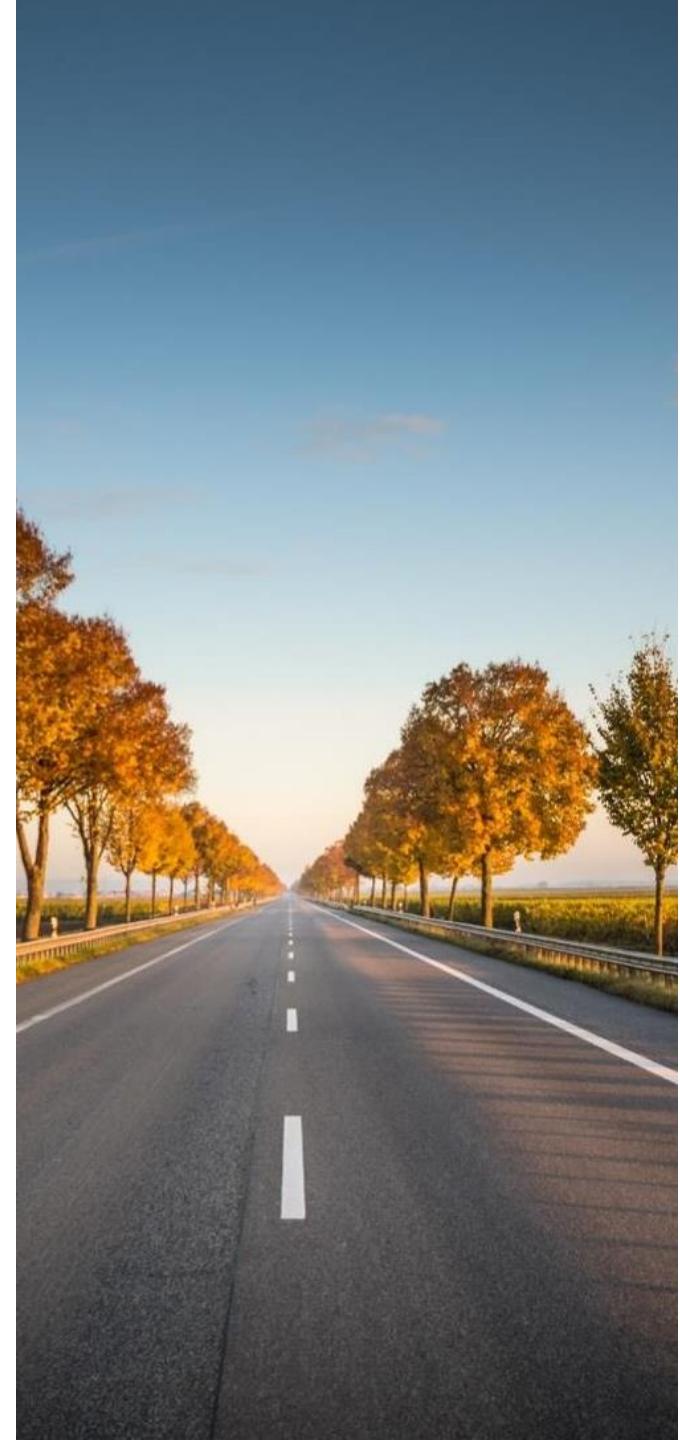
- ❖ The **Clean Energy for All Europeans Package (2019)** defines the minimum requirements to facilitate the deployment of energy storage :
 - technology neutral definition of storage,
 - access to markets and system services,
 - consideration of storage in network planning,
 - enables C&I and residential customers to own and operate behind-the-meter solutions,
 - ...
- ❖ Energy storage is now **recognised by policymakers as an essential technology for the energy transition**
- ❖ **Significant EU funding** available for investment in clean energy technologies incl. storage – Next Generation EU, Horizon Europe, Just Transition Fund, ...

- ❖ Key issues to be addressed:
 - ✓ **Clean Energy Package implementation** into national law of EU Member States
 - ✓ **EU energy storage strategy** is needed to achieve 2030 and 2050 decarbonisation targets
 - Alignment across EU Green Deal files touching on storage
 - Modelling and data collection to help define targets and track progress across EU-27
 - ✓ **Adequate price signals** for storage, particularly in terms of long-term investor certainty

Energy Storage in the Green Deal and Recovery Fund

EASE's 10 Priorities for the Storage Sector

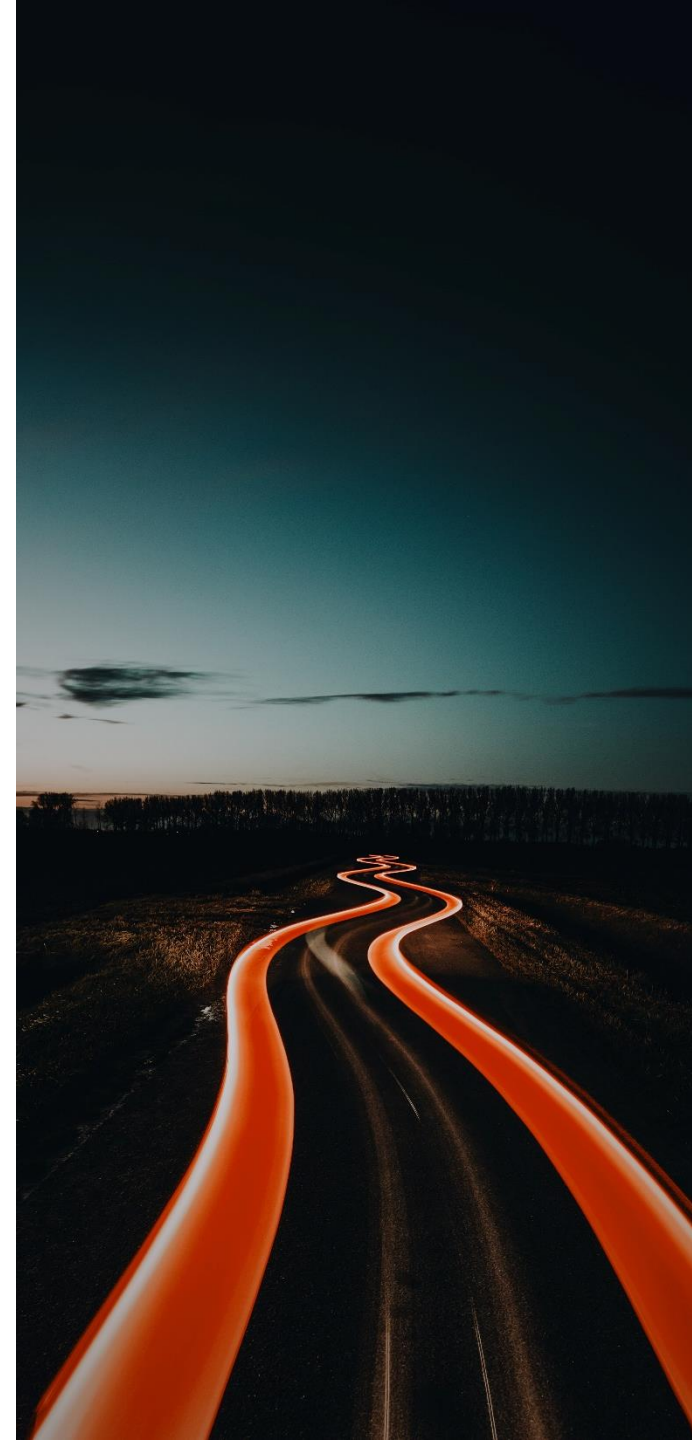
1. Focus on **technology neutral policymaking** considering all energy storage technologies
→ 'Mainstream' energy storage across all EU Green Deal Files
2. **Accelerate Clean Energy Package** implementation in all EU Member States
3. Ensure **market based tendering** and **fair remuneration** for energy storage services, enabling revenue stacking and long-term revenue streams
4. **Recognise specific attributes** of energy storage, e.g. when defining grid fees and charges, network codes



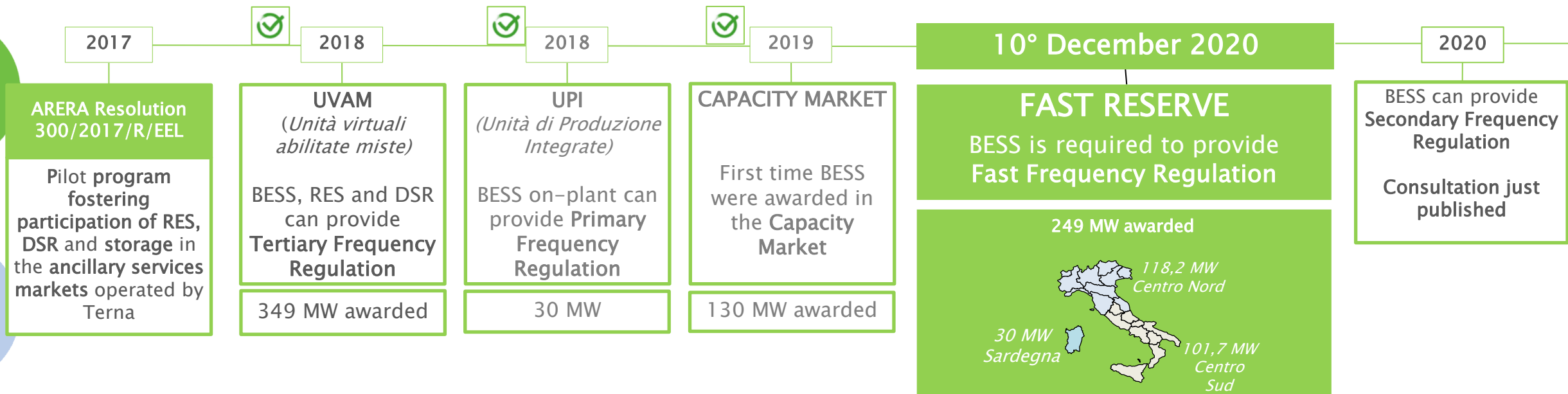
Energy Storage in the Green Deal and Recovery Fund

EASE's 10 Priorities for the Storage Sector

5. **Unlock funding** for energy storage R&D, demonstration and deployment, and training, including through the COVID-19 Recovery Plan and Just Transition Fund
6. Support the link between **energy storage** and mobility
7. Enable the development of **long-duration storage**
8. Consider **all energy storage technologies** in the context of sustainable finance
9. Facilitate **permitting** for energy storage projects
10. Develop **common standards and approaches** for safety and sustainability of storage systems to support harmonisation and interoperability



Energy Storage in Italy: Challenges and Outlook



Fast Reserve results

- 5 year contract thru capacity payment
- 53 qualified bidders for a total of 1.327MW – awarded capacity of 250MW

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