



Reflections on Energy Storage

Patrick Clerens
Secretary General, EASE

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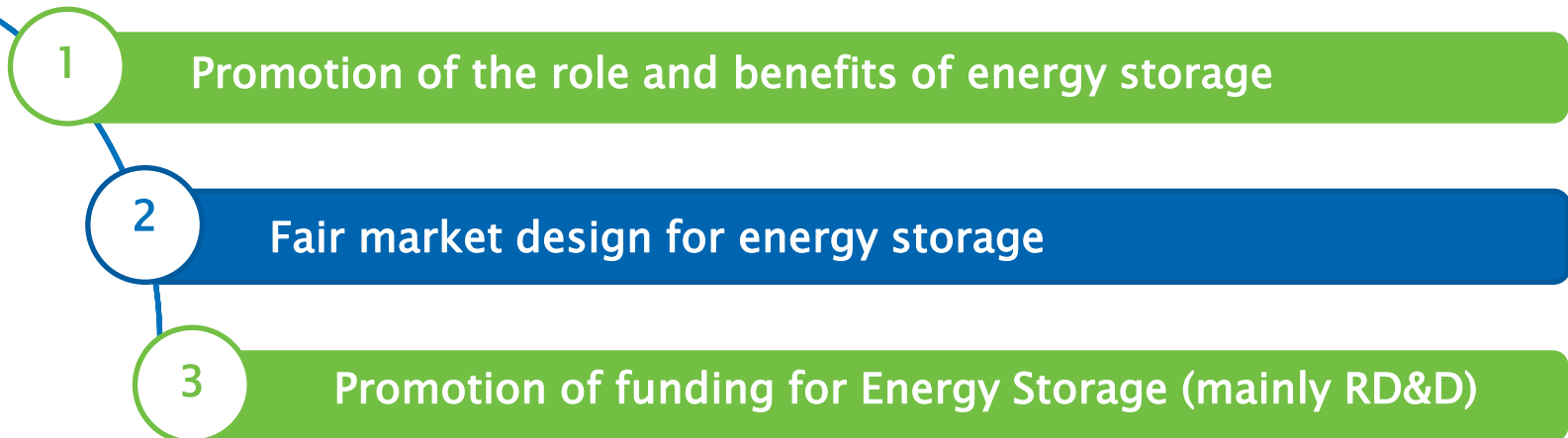


Introduction to EASE

European Association for Storage of Energy...

- ...is the European **voice** of the energy storage community
- ...advocates the **role of energy storage** as an indispensable instrument for the energy system
- ...supports a **sustainable**, **flexible** and **stable** energy system
- ...**shares** and **disseminates** information

Strategic objectives:





Introduction to EASE

EASE Members





Why does the energy system need storage?

Decarbonisation and the Energy Union

Energy storage technologies support the energy transition and EU decarbonisation goals by:

- Improving energy system resource use efficiency
- Helping to integrate higher levels of variable renewable resources and end-use sector electrification
- Supporting greater production of energy where it is consumed
- Increasing energy access
- Improving electricity grid stability, flexibility, reliability and resilience



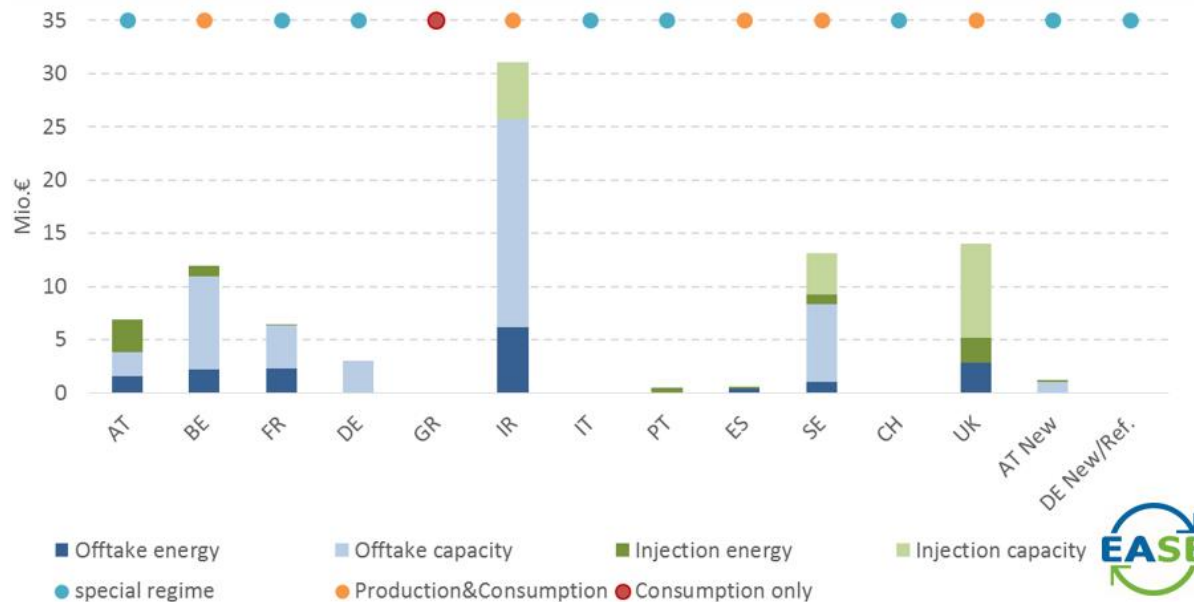
Source: IEA Energy Storage Roadmap 2014



Energy Storage Barriers

Example: Grid Fees for Energy Storage Systems

Indicative grid charges for a fictive large-scale PHS plant



- Significant variance between countries creates distortions in cross-border energy trade: investment in PHS plants not only depends on where they are most needed, but also where grid costs are lower.
- EASE calls for a joint EU approach to grid charges, taking into account the contributions of energy storage to grid stability.

Source: EASE Position on Energy Storage Deployment Hampered by Grid Charges, 2017

The Clean Energy Package has addressed some energy storage barriers, but more needs to be done to ensure a level playing field for storage.



Which actions/policies to support storage?

Many Questions Still Need to Be Addressed

1. Further clarify a **definition of energy storage** that covers all energy storage technologies
2. Establish clarity on the rules under which **energy storage can access markets** – ownership question
3. Include **energy storage in the network codes** and respect the specificities of energy storage devices
4. Enable **long-term contracts for storage on a level playing field**, to increase investment certainty and speed up the deployment of storage technologies
5. Prevent **double taxation** of energy storage facilities
6. Introduce **scarcity and congestion pricing to support flexibility solutions** such as energy storage





Which actions/policies to support storage?

Accelerating the deployment of storage technologies at EU level

- ❖ Working on the implementation of the Clean Energy Package:
 - Network codes
 - Ownership by regulated entities (mixed business cases)
- ❖ Further promoting sectoral integration:
 - Follow-up on High-Level Roundtable on Sectorial Integration
 - Interface between energy storage and sustainable mobility, heating and cooling
- ❖ Supporting energy storage R&D funding:
 - ❖ Horizon Europe
 - ❖ Connecting Europe Facility
 - ❖ ...





Thank you for your attention!

EASE – European Association for Storage of Energy
Avenue Adolphe Lacomblé 59/8 | BE – 1030 Brussels
Tel: +32 2 743 29 82
Twitter: [@EASE_ES](https://twitter.com/EASE_ES)
info@ease-storage.eu
www.ease-storage.eu



Members

