



A E P I B A L

ENESA Meeting
18 September

Summary

- Energy storage policy
- Market developments
- Activities/publications of AEPIBAL
- Subsidy schemes/tax incentives for energy storage

Energy Storage Policy

Spain's regulatory framework says nothing in relation to energy storage systems, with the exception of hydraulic pumping, which is considered a conventional generation system, and thermal storage associated with thermal solar power plants.

Nevertheless, all energy production and consumption plants must be registered with a code in order to operate.

Energy Storage Policy

Depending on the amount that is intended to be stored, the main ways of storing energy are as follows.

Large-scale storage: reversible hydroelectric (pumping) and thermal storage

Spain also has thermal storage in CSP cylinder parabolic trough power plants. These plants have a full thermal reservoir that can continue to run turbines at full load for several hours.

Storage in networks and end user storage: batteries, domestic batteries, capacitors and superconductors.

REE (the Spanish technical network operator) has implemented the Almacena project as regards batteries, which consists of an electrochemical energy storage solution connected to the general network as well as the installation of a prototype flywheel in the Canary Islands.

Energy Storage Policy

REE (also intends to construct a reversible hydroelectric plant on the island of Gran Canaria between the reservoirs of Soria and Chira.

The regulations applicable to energy storage projects do not differ from the general framework. Storage facilities (both large-scale and end user (batteries, etc)) depend on the power plant of which they are part. Therefore, the relevant authorisations and legal framework are included within the authorisation process for power plants.

Energy Storage Policy

Some energy storage regulations

Law 24/2013 del Electric Sector

Article 9. Self-consumption of electricity

Article 48. Energy recharge services. The energy recharge service will have as its main function the delivery of energy through the services of charging vehicles and storage batteries in conditions that lose charge efficiently and at a minimum cost for the user and the electrical system,

Charging Manager: Figure REPEALED by **Royal Decree-Law 15/2018**, of October 5, on urgent measures for energy transition and consumer protection. In this way, any company (hotels, car parks, shopping centers, car parks of companies, etc.) or freelancers can install charging points in their facilities and offer this service, although in any case they must comply with the corresponding industrial safety regulations.

Low Voltage Regulation: ITC-BT-52 : EV Charger points

Installations for recharging electric vehicles

http://www.f2i2.net/documentos/lsi/rbt/guias/guia_bt_52_nov17R1.pdf

Energy Storage Policy

Real Decreto 244/2019 regulating the administrative, technical and economic conditions of the self-consumption of electric energy. **Storage elements may be installed in the self-consumption** facilities regulated in this royal decree, when they have the protections established in the safety and industrial quality regulations.

The decree also introduces the concept of communal self-consumption, where households can use energy generated nearby rather than solely on their own building.

Another novelty simplifies the mechanism of payment for any surplus energy injected back into the grid. Previously prosumers were only compensated if they were legally authorized energy producers, with all the paperwork and tax declarations that involved. The new decree rewards generators monthly as long as they are producing renewable energy from systems no larger than 100 kW in capacity, and the amount of compensation they receive can be up to 100% of the value of the energy consumed in the month. The collective self-consumption mechanism offers prosumers the alternative of consuming a neighbour's surplus generation.

However, this new royal decree does not introduce a clear message in favour of storage.

Market developments

There is no regulation for the electricity storage participation in the market according to the resolution of May 9, 2018 of the Secretary of State for Energy, by which the operating rules of the daily and intraday markets for the production of electric energy were approved (http://www.omie.es/files/boe_a-2018-6295.pdf) It established the subjects that can participate, and there is no reference to the storage energy systems. The participation of active customers is reduced to those installations that fulfil the recently approved self-consumption decree. However, there are some initiatives to set the energy transition: IDAE and OMIE will test the future of power markets.

IDAE (Institute for the Diversification and Saving of Energy), M.P., is a body assigned to the Ministry for the Ecological Transition through the Secretary of State for Energy, to which it reports.

OMIE manages the entirety of the markets (daily and intraday) for the whole of the Iberian Peninsula, and its operating model is the same as the one applied by many other European markets.

Market developments

The initiative aims, from real prototypes, to identify the challenges and opportunities for the proactive consumer in the local electricity markets, as well as for the incorporation into the system of new companies of aggregation services of "prosumers".

- The aim is to promote projects in local markets with solutions that facilitate the management of distributed energy resources and accelerate the adoption of the new European regulations on energy and climate.
- The prototypes with elements of generation, distribution, demand management, electric mobility and optimization of the technical and economic management of smart distribution networks will be valued.

The CNMC is also developing documentation to establish the aggregators participation. Some preliminary drafts are available. <https://www.cnmc.es/ambitos-de-actuacion/energia/consultas-publicas>

The National Commission on Markets and Competition (CNMC in Spanish) is an entity that promotes and defends proper functioning of all markets, in the interest of consumers and businesses.

Market developments

There are initiatives supporting the energy storage deployment. These are organized through FUTURED and the Cross-platform Storage Workgroup, GIA, which is now part of BatteryPlat.

The information related to capacities and storage projects and their diffusion at different levels can be found on:

<http://www.futured.es/wp-content/uploads/2016/07/Proyectos-Almacenamiento.pdf>

As well as financing the BatteryPlat platform itself is a way to support the development and the storage deployment.

Activities/publications of AEPIBAL

We promote...

Transition

to a sustainable, flexible and stable energy system in Europe.

Support

towards the deployment of batteries by eliminating or reducing legal barriers.

Connect

European and other international institutions, ensuring safety and quality.

Interests

of our members such as recycling, legal representation and responsible use of batteries.

Building

a Spanish platform to share, communicate, train and internationalize companies regarding batteries and ESS.

Activities/publications of the association

Periodically, AEPIBAL creates working groups in order to promote the **innovations** and **competitiveness** between companies within the sector. Nowadays we have seven working groups going on:

Circular
Economy

New
Technologies

Energy Storage

Electric
Mobility

Logistics and
Transportation

Digitization

Financing the BatteryPlat platform itself is a way to support the development and the storage deployment.

<https://www.batteryplat.com/>

And the initiatives set on the PNIEC 2021-2030.

Almacena Project (Red Eléctrica, REE) Electrical Network Storage Project

Subsidy schemes/tax incentives for Energy storage

There is no subsidy schemes neither tax incentives for Energy Storage in Spain.

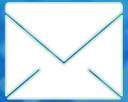
Thank you!

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