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# Energy Storage Policies in Spain: Royal Decree-law 15/2018 as the inflection point in the Spanish energy transition

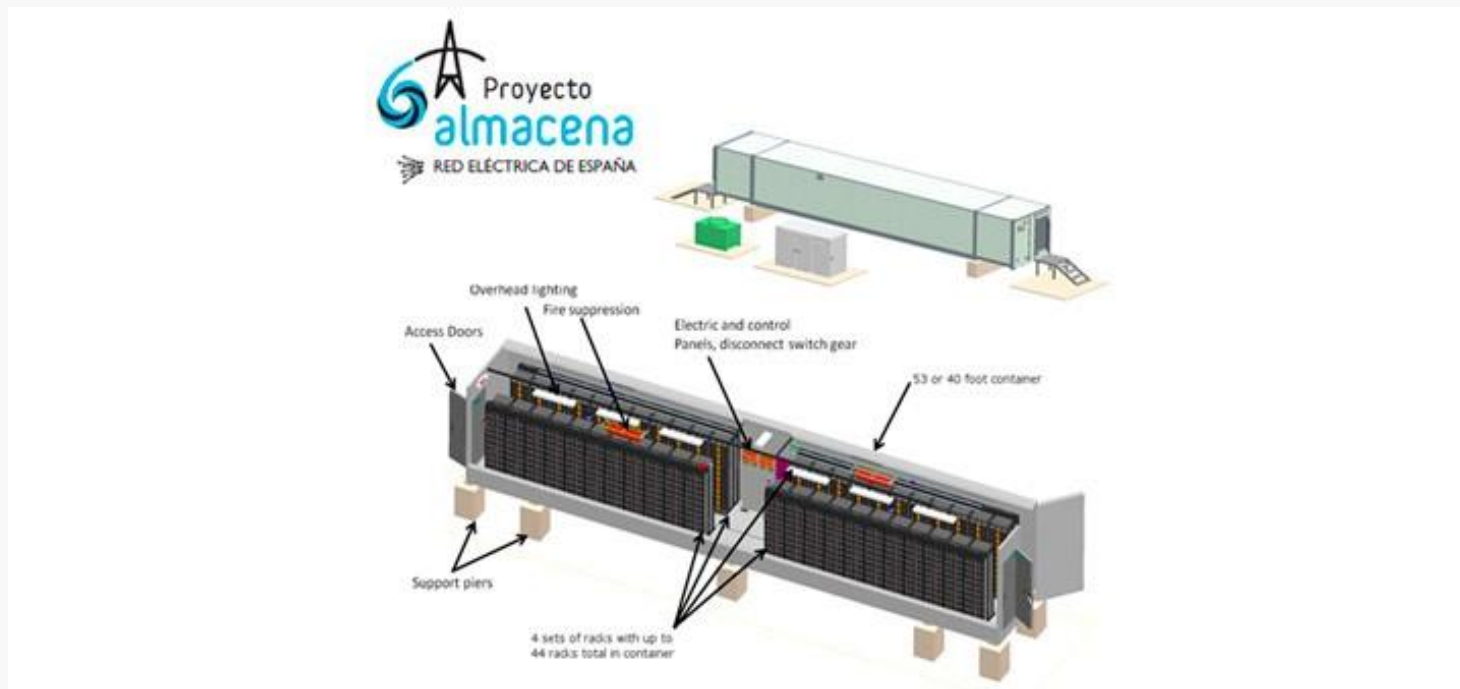
Session: The EU Member States perspective

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# Promotion of energy storage Spain – Concrete examples at national level

## REE's (TSO) Almacena project (3 MWh capacity)



# Promotion of energy storage Spain – Concrete examples at regional level

## Balearic Islands pioneering law and measures

- 18/09/2018 the official Balearic Journal published the [draft bill on climate change and energy transition](#).
- Contains specific measures on energy storage (arts. 8.4.a) and 43)
- Also on EV (arts. 60-64) and ambitious decarbonization goals.
- Regional governmental measures to promote the installation of charging points
  - 1.9 mio€ addressed to car rental companies, tourist establishments, etc.
  - Additional 10 mio€ support scheme expected in the coming months



# Promotion of energy storage Spain – Concrete examples at regional level

## Catalonia

The Catalan Institute for Energy (ICAEN) has promoted two concrete measures regarding energy storage

- 13/07/2018 aids for the installation of public quick charging stations for EV endowed with 860,000€.
- During 2017 support scheme for batteries in self-consumption photovoltaic installations. 74 batteries, with a joint storage capacity of 540 kWh, through a support scheme endowed with 360,000€.

## Madrid

- 19/10/2018 the Regional Official Journal of Madrid's Community (BOCM) published a 1,5mio € support scheme for the installation of EV charging stations
- Covers 40%, 50% and 60% of the installation's cost for, respectively, local authorities, natural persons and companies.
- Applications opened until 13/11/2018



# Promotion of energy storage Spain – Concrete examples at local level

## El Hierro – 100% renewable energy island

- Between 25/01/18 and 12/02/2018, El Hierro, a small Canary island, covered its power supply for 18 days in a row to 100% only with renewable energy sources.
- Five wind turbines, two water tanks, four hydraulic turbines and a pumping station make up the renewable experiment that started in 2014 on the island, an 82mio€ project.
- REE is working on the reversible hydropower station of Soria-Chira in the neighboring and more populated island of Gran Canaria.



# The Spanish legislative framework for energy storage – RDL 15/2018

## Self consumption: back to reasonability

- Specific norm for batteries, only addressing disposal of batteries and accumulators
- Brief history of self consumption: RD 1699/2011, RD 900/2015 and RDL 15/2018
- RD 900/2015 was negative for energy storage business growth for one general reason and two specific ones:
  - In general, it made self consumption difficult and unnecessary expensive.
  - In particular, two measures discouraged the use of batteries:
    - The installed generation capacity could not surpass the consumer's electric contracted capacity
    - Additional charges for installations with batteries
- All those barriers have been repealed by RDL 15/2018, which also rewrites art. 9 on self consumption of the Power Sector Law, putting Spain back on European path



# The Spanish legislative framework for energy storage – RDL 15/2018

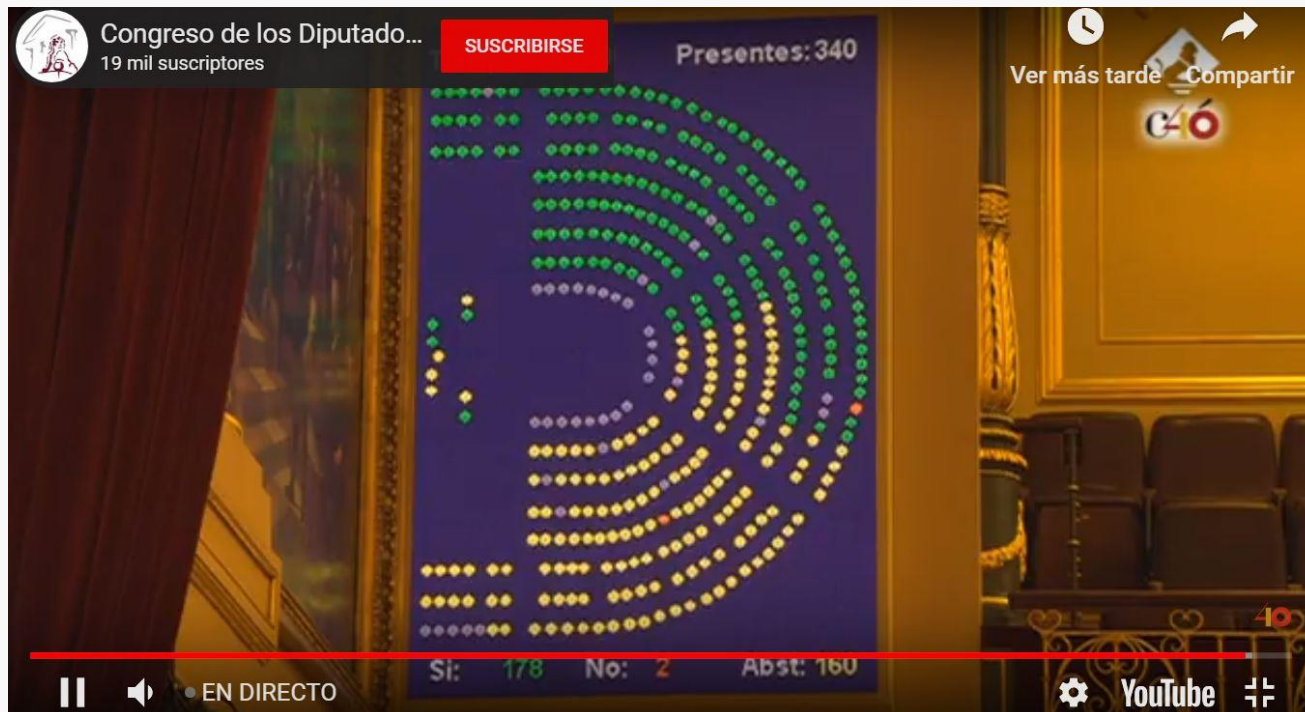
## EV charging points

- The more EV, the more batteries on the market. EV need charging points
- Spain had since 2011 (RD 647/2011) an unusual figure: “the charger manager”
- Defined in art. 1.2 as those business dedicated to power recharging services that can, fulfilling all requirements and having been habilitated for the exercise of that activity, provide electric charging services (e.g. through charging points)
- RDL 15/2018 liberalizes the EV charging business
  - Repealing RD 647/2011 (and therefore the “charger manager” legal figure)
  - Changing art 6.1.g) of the Power Sector Law to make explicit that every consumer is entitled to provide EV charging services



# The Spanish legislative framework for energy storage – RDL 15/2018

## RDL 15/2018 was validated 18/10/2018: what next?





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