

Is the Bess project financially viable in the Greek wholesale electricity market?

The results of Paragraph 4.5 provide valuable insight regarding the viability of our BESS project in the Greek wholesale electricity market. It becomes clear that under no circumstances the BESS project can be financially viable without the contribution of a capacity remuneration mechanism.

What are the components of Bess cost?

The BESS cost can be broken down into components. The highest level components are the ones inserted in Equation (1), namely (i) the investment cost, (ii) the fixed annual operation cost, (iii) the variable annual operation cost, and (iv) the auxiliary and miscellaneous costs.

What is a Bess scenario?

The high scenario foresees participation of RES above 80%, while the low scenario foresees 75% of RES in the energy mix by year 2043. The BESS related scenarios concern the size of installed battery capacity in the system and take in mind IPTOs adequacy study .

What does Bess stand for?

Battery Energy Storage Systems(BESS) in the Greek wholesale electricity market and regulatory framework. IHU Executive MBA 2020 - 37 - Ioannis Papakonstantinou Figure 24 - Day ahead market; market clearing price one-year average per market time unit. And RES production one-year average per market time unit.

What support will be given to Bess projects?

IHU Executive MBA 2020 - 48 - Ioannis Papakonstantinou development of BESS projects will be handled in the form of a EUR/MW capacity mechanism. But support may take other forms like (i) EUR/MWh operating aid, (ii) investment aid by subsidizing the initial capital investment, (iii) tax benefits, or any other sort of investment incentives.

Is a high Bess scenario sustainable?

In the High BESS scenario, the BESS needs to raise 31% of its total revenues from a capacity mechanism to become viable (Figure 41). So, the more storage capacity is inserted into the grid, the more BESS plants will have to rely on capacity mechanisms to have a reasonable return on their investment. This is obviously not sustainable.

The ex-ante analysis and simulation of BESS indicate that the commercial evaluation of such systems has proven to be a complex exercise to resolve with a number of parameters to be taken into consideration and ...

Smile Energy aims to operate the first commercial, stationary BESS for several Greek islands. It currently has 300MW of solar developments in Greece, Bulgaria and Romania, alongside 700MWh of energy storage in development across the same region.

## Commercial bess Greece

CAPEX of the BESS plant is of the greatest importance regarding the commercial assessment of the investment. With BESS system prices being high today (with costs for Lithium-Ion BESS ranging from 550.000 EUR/MW to 650.000 EUR/MW for 2-hour BESS capacity (turnkey costs), but with costs dropping drastically in the future<sup>1</sup>, minimizing CAPEX

The ex-ante analysis and simulation of BESS indicate that the commercial evaluation of such systems has proven to be a complex exercise to resolve with a number of parameters to be taken into consideration and modelled. The recent tender for BESS and the challenges for investors

FRV has announced the acquisition of a majority stake in a 600 MW battery energy storage systems project portfolio under development in Greece. The portfolio is divided into several facilities under development by Greek developer Wootis.

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- Greece - Financial support in favour of electricity storage facilities), a Ministerial Decision of the Minister of Environment and Energy was required governing: i. the main elements of the BESS Tender scheme; ii. the number of BESS Tenders on an annual basis; iii. the timeline for the conduct of the BESS Tenders,

Battery Energy Storage Systems (BESS) The Group has Production Licenses for equal number of Central Storage Stations, with a capacity of 225 MW and 150 MW each, in suitable areas within the Industrial Area of Alexandroupolis and Patras.

Nanotech Energy Europe B.V., a fully owned subsidiary of Nanotech Energy Inc., today confirms it has signed a master purchase agreement to supply 1+ GWh size BESS (battery energy storage systems) through 2028 to Smile Energy in Athens, Greece.

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SUNEL Group is developing 1 GW/2GWh of Battery Energy Storage System (BESS) projects in Greece in collaboration with Perseus Arm. 15/03/2024 This strategic partnership represents a significant step forward in advancing sustainable and resilient energy solutions for the future.



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