



## Greek Energy Storage Power Station Plan

Should Greece invest in energy storage facilities? Currently there is a growing interest for investments in storage facilities in Greece. Licensed projects mostly consist of Li-ion battery energy storage systems (BESS), either stand-alone or integrated in PVs, as well as PHS facilities. How long should energy storage be in a Greek power system? Considering the energy arbitrage and flexibility needs of the Greek power system, a mix of short (~2 MWh/MW) and longer (>6 MWh/MW) duration storages has been identified as optimal. In the short run, storage is primarily needed for balancing services and to a smaller degree for limited energy arbitrage. Will Greece install 900 MW of storage by 2030? According to the Greek National Energy and Climate Plan (NECP), the nation aims to install 4.3 GW of storage by 2030. Thus far, 900 MW has been allocated via the Greek Regulatory Authority for Energy, Waste, and Water (RAAEY) tenders. Therefore, the remaining share would be delivered under the new plan but without any subsidy support. Does Greece have a zero-subsidy battery system? The much-awaited ministerial decree for zero-subsidy standalone battery systems has been published in Greece. So far, Greece has provided support to 900 MW of standalone storage projects under three previous auctions. How much power will Greece have by 2030? The government now aims for 2.65 GW of battery projects on the transmission grid and a further 900 MW on the distribution grid. According to the Greek National Energy and Climate Plan (NECP), the nation aims to install 4.3 GW of storage by 2030. How many storage plants are there in Greece? Currently there are four (4) storage plants operating in Greece, two open-loop pumped-hydro storage (PHS) stations in the mainland (700 MW in total) and two small hybrid RES-storage stations in non-interconnected islands (just 3 MW). The new plan, prepared by the Ministry of the Environment and Energy, calls for installing 4,700 MW of standalone battery projects across the country, equal to the entire projected capacity until under the country's National Climate and Energy Plan (NECP). ELECTRA N°176/329 August Oct 16, 2016; The updated target for a renewable energy source (RES) share of ~80% in the electricity sector, set in the National Energy and Climate Plan (NECP) that is currently being implemented. Greece plans 4.7 GW of commercial battery storage by 2030. Mar 14, 2023; The much-awaited ministerial decree for zero-subsidy standalone battery systems has been published in Greece. So far, Greece has provided support to 900 MW of standalone storage projects under three previous auctions. Greece presents 3.5 GW standalone battery storage by 2030. Feb 26, 2023; A draft ministerial decision envisages the installation of 3.55 GW of standalone battery energy storage systems which will be granted priority connection to the transmission or distribution grid. EuroEnergy Advances Storage Portfolio in Greece Amid Mar 6, 2023; In February, the European Commission, through its Affordable Energy Action Plan, reaffirmed its commitment to electricity storage, focusing on accelerated permitting and grid connection. RES & Energy Storage in Greece: The Green Jun 27, 2023; Presenting to the Special Standing Committee on Environmental Protection of the Hellenic Parliament on June 25, 2023, Nikos Mantzaris, policy analyst and co-founder of The Green Tank, highlighted that PPC plans 5 pumped-storage stations, to be completed by Oct 8, 2023; Terna Energy's development of a 680-MW pumped-storage hydropower station in Amfilohia, northwestern Greece, now in progress, will add to the



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country's overall PSH capacity. The first of PPC's five GREECE ENERGY STORAGE RENEWABLE ENERGYThe Seli Project entails the construction of a 309 MW photovoltaic unit with an integrated lithium-ion battery energy storage system. This project aims to optimize electricity generation and grid Electricity storage in Greece: State-of-playThe updated target for a renewable energy source (RES) share of ~80% in the electricity sector, set in the National Energy and Climate Plan (NECP) that is currently being revised, cannot be met without substantially Greece Renewable Energy projects Jan 18, &#x2013;Greece's National Energy Plan (ESEK) states that high-RES penetration should be accompanied by the development of required storage (mainly battery and pumped storage Greece presents 3.55 GW plan for standalone Feb 24, &#x2013;A new ministerial decree sets the framework for the installation of 3.55 GW of energy storage - standalone batteries, without subsidies.ELECTRA N&#x2013;329 August Oct 16, &#x2013;The updated target for a renewable energy source (RES) share of ~80% in the electricity sector, set in the National Energy and Climate Plan (NECP) that is currently being Greece plans 4.7 GW of commercial battery storage projectsMar 14, &#x2013;The much-awaited ministerial decree for zero-subsidy standalone battery systems has been published in Greece. So far, Greece has provided support to 900 MW of standalone Greece presents 3.5 GW standalone battery storage rollout planFeb 26, &#x2013;A draft ministerial decision envisages the installation of 3.55 GW of standalone battery energy storage systems which will be granted priority connection to the transmission or RES & Energy Storage in Greece: The Green Tank presents Jun 27, &#x2013;Presenting to the Special Standing Committee on Environmental Protection of the Hellenic Parliament on June 25, , Nikos Mantzaris, policy analyst and co-founder of The PPC plans 5 pumped-storage stations, to offer 1,407 MWOct 8, &#x2013;Terna Energy's development of a 680-MW pumped-storage hydropower station in Amfilohia, northwestern Greece, now in progress, will add to the country's overall PSH Electricity storage in Greece: State-of-play & near-term outlookThe updated target for a renewable energy source (RES) share of ~80% in the electricity sector, set in the National Energy and Climate Plan (NECP) that is currently being revised, cannot be Greece presents 3.55 GW plan for standalone batteriesFeb 24, &#x2013;A new ministerial decree sets the framework for the installation of 3.55 GW of energy storage - standalone batteries, without subsidies.ELECTRA N&#x2013;329 August Oct 16, &#x2013;The updated target for a renewable energy source (RES) share of ~80% in the electricity sector, set in the National Energy and Climate Plan (NECP) that is currently being Greece presents 3.55 GW plan for standalone batteriesFeb 24, &#x2013;A new ministerial decree sets the framework for the installation of 3.55 GW of energy storage - standalone batteries, without subsidies.

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