

Grid Scale Energy Storage

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BULLETIN

ENERGY

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WHAT'S INSIDE!

- NV Energy working towards achieving Nevada's 2050 carbon reduction objectives
- Construction works of two large scale energy storage projects start in U.S.A.
- Honeywell steps up its energy storage activities - signs contract to supply with DTEK
- Siemens Energy launches initiative for efficient energy storage solutions

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NV Energy announces plans to build large-scale solar-plus-storage and transmission line project

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EDF signs PPA with NV Energy for Nevada solar plant with battery storage

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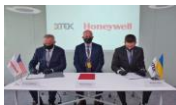
PG&E and TESLA start construction of 182MW battery storage system

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Enel starts construction of solar-storage hybrid project in the US

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Honeywell to supply Ukraine's first grid-scale battery storage system



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NV Energy announces plans to build large-scale solar-plus-storage and transmission line project



- Public utility NV Energy has announced plans to build three solar parks with battery storage and a large-scale transmission line project in Nevada.

The total project capacity will be 478MW of solar photovoltaic and 338MW of battery storage. NV Energy is also seeking permission for a transmission line project called Greenlink Nevada.

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31 July 2020

EDF signs PPA with NV Energy for Nevada solar plant with battery storage



- EDF Renewables North America has signed a 22-year power purchase agreement with utility NV Energy for 200MWac solar plus 720MWh battery storage project located in Las Vegas, Nevada. The project is expected to be operational by the end of 2023.

The collaboration of EDF Renewables and NV Energy builds on the 2019 agreement between the two to develop the Arrow Canyon Solar+Storage project, also located in Nevada. The project is a part of the utility's Integrated Resource Plan (IRP) filing.

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Under “active growth strategy” strategy, Enel has set the target of installing 1GW of new utility-scale solar and wind projects each year through 2022. Along with that, the utility intends to deploy 1GW of battery storage to be co-located with new and existing renewables projects over the next two years.

30 July 2020

PG&E and TESLA start construction of 182MW battery storage system



- **Pacific Gas & Electric and Tesla has begun construction of a 182.5MW lithium-ion system in Monterey County, California. PG&E will own the facility. The facility is claimed to be the largest utility-owned, li-ion battery energy storage system in the world.**

The project includes installation of 256 Tesla Megapack battery units on 33 concrete slabs. The Battery Energy Storage System will have the capacity to store and dispatch up to 730MWh of energy to the electrical grid at a maximum rate of 182.5MW for up to four hours during periods of high demand. Agreement between PG&E and Tesla includes option of upsizing the system size up to six hours or 1.1GWh total.

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22 July 2020

Enel starts construction of solar-storage hybrid project in the US



- **The clean energy arm of Italian utility Enel has started construction of 146MWac of solar PV and 50MWac/75MWh battery storage project in Kaufman County, Texas.**

The project, named Lily solar storage project, is a part of “active growth strategy” that Enel Green Power is pursuing in North America. The company has set the target to derive 60% of its power from renewables by 2022 and has confirmed a multi-billion-euro green energy push as part of a wider revamp of its power strategy in November 2019.

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24 July 2020

Honeywell to supply Ukraine's first grid-scale battery storage system



- **Honeywell has signed a contract to supply Ukraine's first large-scale battery energy storage system. The pilot project of size 1MW / 1.5MWh will use lithium-ion battery technology and is located at Zaporizhzhya Power Plant, a thermal power plant site owned by DTEK.**

The system is based on Honeywell's Experion Energy Programme solution and will include Honeywell's remote operations systems and Experion Energy Control System alongside the US provider's BESS technology.

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DTEK is considering the possibility of connecting energy storage devices to the company's renewable energy sources in future, though, the current legislative regulation of Ukraine doesn't allow it.

SPOTLIGHT



"Future of Storage" initiative by Siemens Energy

Siemens Energy has launched "Future of Storage" initiative to establish network for efficient energy storage solutions. The initiative aims at gathering knowledge and building an ecosystem of technology partners to develop the capability to offer tailor-made energy storage solutions as per customers' needs. The tailored solutions will improve the efficiency and thus the profitability of customers' plants.

With this initiative, Siemens Energy takes another step ahead to achieve its goal of decarbonizing the world's energy systems. The company believes that building efficient energy storage systems is an essential component to build climate-friendly energy systems.

Purpose of the Initiative

The company is establishing a **global team of experts** under this initiative. The team will bring in **knowledge portfolio** of all the available **energy storage technologies**.

To offer customers exactly the **solutions that fit their needs**, it is necessary to develop **expertise** and **suitable business models**. This initiative is a **prerequisite** for achieving these goals.

A Step Forward to Achieve the Purpose

As a part of establishing network for establishing efficient energy storage solutions, **Siemens Energy** has entered into a **long-term partnership** with the Norwegian technology company **EnergyNest**. The start-up is a supplier of **thermal energy storage systems**. The aim of the partnership is to jointly offer **modularized and standardized thermal energy storage systems for industrial customers**.

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