

Samoa power generation and energy storage project





Overview

MANILA, PHILIPPINES – 11 December 2024 — The Asian Development Bank (ADB) has signed a transaction advisory services agreement with Samoa's Electric Power Corporation (EPC) to support the development of a solar photovoltaic and battery energy storage systems with installations planned for the country's two largest islands, Upolu and Savai'i. Why should American Samoa invest in solar energy?

Positioned less than 1,000 miles south of the equator, American Samoa is uniquely positioned to harness its abundant solar energy resources. BESS projects will be critical for American Samoa to achieve its renewable energy goals by maximizing solar utilization, reducing dependence on imported fuels, and ensuring a safe, reliable grid.

What is a solar project in Samoa & Tutuila?

The three projects, deployed on American Samoa islands of Tutuila and Aunu'u, will have installed capacities of 4 MW/8 MWh, 5 MW/10 MWh, and 1 MW/2 MWh. All three projects will support ramp rate control to smooth and limit fluctuations in solar photovoltaic (PV) power output, ensuring reliable renewable integration and grid stability.

Why did the American Samoa power authority choose eastern power solutions?

The American Samoa Power Authority selected Eastern Power Solutions with the EVLO 1000 BESS to enhance the delivery of safe, reliable, and clean power to the local community. ASPA is a development-oriented public utility providing electricity, water, wastewater, and solid waste services to about 50,000 residents.

How does Samoa's energy system work?

ed integration of innovative distributed energy solutions across its service territory. Currently, Samoa's energy portion of the tariff sees its highest cost kWhs coming from energy supplied through its diesel resources. The Samoan



Government has an established goal of 70% renewable energy generati.

What is Samoa's energy mandate?

The mandate also includes addressing critical environmental, social, and gender considerations to ensure the project's sustainability and inclusiveness. Samoa currently relies on imported fossil fuels for approximately 69% of its electricity generation, leaving the country vulnerable to volatile oil prices.

Which land is available for solar energy in Samoa?

r power, spaces in front near and the rear end of the thermal station is available for RETotal land area e from Samoa Land Corporation is 15.5 acers land was designated for Solar Energy.LeaseProperty is legally leased to EPC from Samoa La



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EVLO Commissions First of Three Energy Storage Projects in American Samoa

In collaboration with Eastern Power Solutions (EPS), a turn-key solar energy service provider, the solar-plus-storage projects will support American Samoa Power Authority's (ASPA's) mission ...

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EVLO Commissions First of Three Energy Storage Projects in American Samoa

EVLO Energy Storage Inc. (EVLO), a fully integrated battery energy storage systems (BESS) provider and wholly owned subsidiary of Hydro-Québec, announced today ...

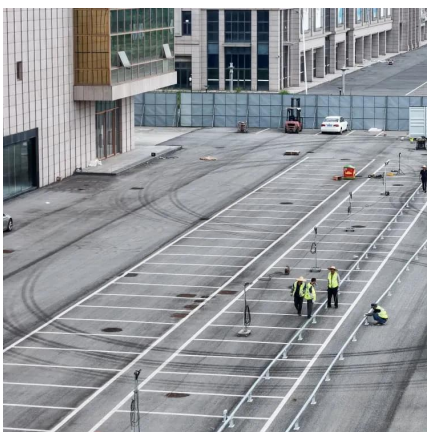
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EVLO Completes Commissioning of First of Three Energy Storage Projects

Constructed by Eastern Power Solutions, the solar-plus-storage projects will provide 10 MW / 20 MWh of critical clean capacity for the American Samoa grid. MONTRÉAL, ...

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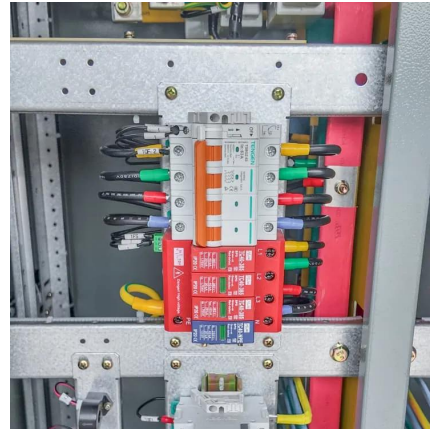
ADB & Samoa Sign Landmark Agreement for Solar Power Projects

The facilities will smooth electricity generation, balance supply and demand, and allow for energy storage during off-peak periods. The



project has the potential to attract a ...

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EVLO completes commissioning of first of three energy storage ...

EVLO, a fully integrated battery energy storage systems (BESS) provider and wholly owned subsidiary of Hydro-Québec, has completed commissioning of a 4-MW, 8-MWh, ...

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Government of the Independent State of Samoa through the ...

The information developed through this EOI will be used to evaluate the market interest for IPP-led development of renewable energy generation and storage for Samoa, to be procured by EPC.

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Tesla, SolarCity Powering entire Island of Ta'u in American Samoa ...

5,328 panels installed can run the entire island on green energy for three days and 6MW of storage can recharge in 7 hours of sunlight. The new Ta'u microgrid, operated by ...

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Utility-Scale Battery Storage Powers Grid Stability in American Samoa

EVLO Energy Storage Inc., a subsidiary of Hydro-Québec, recently completed the first of three energy storage projects on the islands of Tutuila and Aunu'u in collaboration with ...

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EVLO Energy Storage Completes First Battery Storage System ...

EVLO Energy Storage Inc. (EVLO), a fully integrated battery energy storage systems (BESS) provider and subsidiary of Hydro-Québec, has successfully commissioned its ...

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Evlo deploys grid-scale batteries in two American Samoa islands

The first of three storage projects is completed, enabling the island to integrate its solar energy production and enhance grid reliability. Evlo Energy Storage Inc, a subsidiary of ...

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EVLO Announces Commissioning of First of Three Solar-Plus-Storage

EVLO Energy Storage (EVLO), a BESS provider and wholly owned subsidiary of Hydro-Quebec, has completed commissioning of a 4-MW, 8-MWh, 2-hour duration energy ...

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EVLO completes commissioning of first of three energy storage projects

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ADB, Samoa Sign Landmark Agreement for Solar Power Projects ...

Incorporating cutting-edge battery energy storage systems, the project will significantly improve grid reliability by mitigating intermittencies associated with renewable ...

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ADB, Samoa Sign Landmark Agreement for Solar Power Projects

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EVLO Energy Storage Completes First Battery Storage System Project ...

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EVLO Completes Commissioning of First of Three Energy Storage Projects

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CASE STUDIES FROM INTEGRATING RENEWABLES

Approximately 90% of electricity demand is on Rarotonga, the most visited island with a large tourism industry, whilst the remaining 10% is divided between the smaller outer islands. Te ...

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