



# Samoa base station uses energy storage container for bidirectional charging





## Overview

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The innovative design ensures that the EVs are primarily charged using solar energy, with battery storage as a backup and grid electricity as a last resort. This setup guarantees continuous and sustainable operation even during periods of low solar availability.

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Launched in 2023, Samoa's Climate Action Pathways for Island Transport (CAP-IT) project, backed by a US\$15.5 million investment from the Government of Japan, aims to accelerate the nation's transition to a green, low-carbon future. Implemented by UNDP, the project focuses on decarbonizing.

Enter the Samoa Energy Storage Power Station – the game-changing solution turning this Pacific paradise into a renewable energy trailblazer. This isn't just another battery project; it's a masterclass in how island nations can punch above their weight in the global energy transition [1] [2].

American Samoa moves closer to its 2040 renewable energy goal with EVLO and EPS deploying new solar-plus-storage systems across Tutuila and Aunu'u. American Samoa has taken a major step toward its goal of 100% renewable energy by 2040 with the commissioning of a new solar-plus-storage system. EVLO.

Bidirectional electric vehicles (EV) employed as mobile battery storage can add resilience benefits and demand-response capabilities to a site's building infrastructure. A bidirectional EV can receive energy (charge) from electric vehicle supply equipment (EVSE) and provide energy to an external.

A close-up of a Hyundai electric vehicle being charged at Samoa's first solar-powered electric vehicle charging station, inaugurated on July 21, 2024, at Friendship Park, Matagialalua. Photo: MNRE 21 July 2024 – The Government of Samoa, through the Ministry of Natural Resources and Environment.

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, 2-hour duration energy storage system – the first of three projects in American Samoa. In collaboration with Eastern Power Solutions.



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### Bidirectional Charging and Electric Vehicles for Mobile Storage

Bidirectional electric vehicles employed as mobile batteries can be mobilized to a site prior to planned outages or arrive shortly after an unexpected power outage to supplement local ...

### Accelerating Samoa's green energy transition , United Nations

A vehicle-to-building (V2B) concept is also being implemented, which utilizes bi-directional charging technology to charge vehicles while also serving as a backup energy ...

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### Government of Samoa opens Nation's first solar-powered electric ...

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### PRESS RELEASE

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### [EVLO Commissions First of Three Energy Storage](#)

This initiative, the first of three, was developed with Eastern Power Solutions (EPS) to support the American Samoa Power Authority ...



### **EVLO Commissions First of Three Energy Storage Projects in American Samoa**

This initiative, the first of three, was developed with Eastern Power Solutions (EPS) to support the American Samoa Power Authority (ASPA) in providing sustainable, reliable ...



### **Utility-Scale Battery Storage Powers Grid Stability in American Samoa**

Situated in a region with high solar irradiance, the territory is well-positioned to benefit from solar energy paired with energy storage systems to address intermittency and ...



### [Bidirectional Charging and Electric Vehicles for ...](#)





Bidirectional electric vehicles employed as mobile batteries can be mobilized to a site prior to planned outages or arrive shortly after an unexpected ...



### **Check out the team installing the new solar panels at the new EV**

These solar panels will directly power the battery energy storage system (BESS) and EV chargers, making this site a fully solar-charged solution for sustainable transport.



### **Government of Samoa opens Nation's first solar-powered electric vehicle**

The innovative design ensures that the EVs are primarily charged using solar energy, with battery storage as a ...



### **Enviroearth delivers solar-powered EV charging stations in Samoa**

ARE Member Enviroearth has completed the installation of six electric vehicle (EV) charging stations in Apia, Samoa, with a trusted local partner. The project combines hybrid ...

### **Samoa Energy Storage Power Station: Powering Paradise with ...**



Enter the Samoa Energy Storage Power Station - the game-changing solution turning this Pacific paradise into a renewable energy trailblazer. This isn't just another battery ...



### Utility-Scale Battery Storage Powers Grid Stability

Situated in a region with high solar irradiance, the territory is well-positioned to benefit from solar energy paired with energy storage ...

### Accelerating Samoa's green energy transition

A vehicle-to-building (V2B) concept is also being implemented, which utilizes bi-directional charging technology to charge vehicles while ...



### **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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