

European Solar and Energy Storage Solutions

Energy storage investment American Samoa



Overview

Is American Samoa a renewable country?

American Samoa's energy sector relies almost entirely on imported fossil fuels, although renewables represent a small but growing power system contribution. The territory possesses substantial solar energy resources, as well as wind and biomass resource potential.

Where does American Samoa get fuel?

Fuel for American Samoa comes from Singapore with Busan, South Korea as an alternate provider if needed. In the case of fuel disruption, Pacific Energy prioritizes serving ASPA to ensure power and water treatment services are not interrupted (Pacific Energy representative, personal communication, August 9, 2023).

Does American Samoa have a geothermal energy plan?

The 2016 American Samoa Energy Action Plan identifies some geothermal resources, but none of these are viable for commercial electricity generation. The 2016 plan instead emphasizes the development of wind and solar power (Ness, Haase, and Conrad 2016). American Samoa is exploring opportunities for both offshore and onshore wind power generation.

How much solar power does American Samoa have?

Of the 5 MW of ASPA's grid-connected solar PV capacity, 4.1 MW is utility scale and 900 kW is distributed across rooftops. American Samoa's smaller islands are moving toward a combination of solar, batteries, and diesel generators.

How much does electricity cost in Samoa?

Average U.S. and American Samoa Electricity Prices (2022) ASPA rates are down slightly as of January 2024—approximately \$0.41/kWh for residential and commercial customers and \$0.38/kWh for industrial customers. ASPA's total energy rates include a renewable energy flat rate charged at \$0.002/kWh

across all service types (ASPA 2024).

Does Samoa have an emergency energy conservation plan?

1979: The U.S. “Emergency Energy Conservation Act of 1979” requires the submission of an emergency energy conservation plan by each state or territory (Public Law 96-102, as amended). American Samoa adopted its Emergency Energy Conservation Plan in 1982 (see Chapter 5, Annex A of ASCA 12 for plan details).

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Tesla signs 15.3GWh Megapack BESS supply deal with US developer

The current iteration of the Megapack features up to 3.9MWh energy storage capacity, as listed on Tesla's site, a little short of the increasing trend for manufacturers to pack as much as 5MWh or even more into a 20-foot ISO standard containerised format. Megapack does, however, come integrated with Tesla's power conversion system (PCS)

Keeping the Power On: Financing Energy Storage Solutions

On December 14, 2021, The Climate Investment Funds (CIF), through its Global Energy Storage Program (GESP), hosted a virtual workshop focused on the transformational potential of energy storage. The third workshop in a series, 'Keeping the Power On: Financing Energy Storage Solutions' hosted over 150 participants from 39 countries and cities across the world.



SAMOA INVESTMENT GUIDE

The Investment Guide 2018 is an important publication intended to provide basic information that every investor needs to know about the investment environment of Samoa, including: (i) Investment Opportunities; (ii) Processes & Procedures for setting up a business in Samoa; and who to contact on these processes.

Ta'u: An Island Using 100% Renewable Energy

Now, the island runs on a completely renewable microgrid that meets 100% of residents' energy needs through solar power and battery storage. In 2016, the founders of Maui, Hawaii-based company Mana Pacific helped ...



U.S. DEPARTMENT OF ENERGY AMERICAN SAMOA ...

Recovery Act investments in American Samoa are supporting a broad range of clean energy projects, from energy efficiency and the smart grid to solar power and biofuels. Through these investments, American Samoa's businesses, universities, non- profits, and local governments are creating quality jobs today and positioning American Samoa to



SAMOA INVESTMENT GUIDE

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Biden-Harris Administration Continues to Deliver ...

4 ???· In American Samoa, Banana Solar LLC plans to use a \$12 million investment to develop a 6.6-megawatt solar and battery energy storage system for renewable energy. This will provide

power to approximately 1,300 ...



American Samoa Energy Strategies

American Samoa has limited resources and, therefore, suffers economically without assistance from abroad. Investing in energy efficiency and renewable energy is an opportunity to alter that perception. This strategic energy plan prepares American Samoa to harvest its abundant energy resources for the betterment of all its citizens.



Biden-Harris Administration Continues to Deliver Affordable

5 ???· In American Samoa, Banana Solar LLC plans to use a \$12 million investment to develop a 6.6-megawatt solar and battery energy storage system for renewable energy. This will provide power to approximately 1,300 households on Tutuila Island, meeting nearly 6% of their energy needs with renewable energy.

USDA's \$78.3 million investment in rural clean energy

2 ???· This will fund the development of small

hydroelectric and solar facilities and an energy storage system. The renewable energy will power around 115 local households; this shows how small-scale projects can greatly impact local communities. Other projects worth noting include American Samoa, which will receive investments in solar and battery



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USDA invests \$78.3M in rural clean energy

3 ???· The investments will benefit several projects across states including Maryland, Ohio, Vermont, Washington, and American Samoa, empowering nearly 7,000 households with renewable energy annually. For instance, in American Samoa, investments will develop significant solar and battery storage systems, providing a substantial boost to the island's



USDA invests \$35.5M in A. Samoa solar projects to deliver

...

1 ??· Also in American Samoa, Mana Solar LLC plans to use a \$23.5 million investment to

develop a 13.4-megawatt community solar and battery energy storage system. This will provide power to approximately 2,500 households on Tutuila Island, meeting nearly 12% of their energy needs with renewable energy.



American Samoa Updates

American Samoa Updates. The Biden-Harris Administration is making a historic investment in rural communities, expanding clean energy and supporting American energy independence, investing in popular conservation programs and climate-smart agriculture, and ...



SAMOA ENERGY SECTOR PLAN

2.0 The Samoa Energy Sector Plan FY2023/24 - FY2027/28 17 2.1 Energy Sector Policy Framework 17 ESPO 1: "Renewable Energy Investments Increased" 19 KS 1.1: Expand Investments and Usage of Renewable Energy 20 KS 1.2: Improve Infrastructure and Service Quality for Renewable Electricity Generation 21 the British American Tobacco (BAT

Energy Vault raises US\$100m investment for energy storage using ...

Resembling a cross between a construction site and a theme park ride, the Swiss-American company's tech has already been invested in by the likes of Softbank Vision Fund and Saudi Aramco Energy Ventures. That pair joined the

latest funding round, along with other innovation and breakthrough-focused venture capital (VC) groups like Prime Movers Lab ...



COMPANY NAME PROJECT , 2023

meet 50% of American Samoa's energy needs from renewable resources by 2025 and 100% by 2040. However, as of 2023, only around 3% of American Samoa's energy needs are being met by renewable resources. The other 97% of American Samoa's energy needs are provided for via imported diesel fuel that is used to power generators.

Energy Storage Systems in Asia

Proportional Growth of Investments in Energy Storage Systems and Clean Power Deployment Critical . Currently, 85% of clean energy investment is in the advanced economies and China. The IEA notes that a 1.5°C-aligned world requires a sixfold increase in emerging and developing economies outside China by 2035.



USDA Invests \$35.5M in American Samoa Solar Projects to Deliver

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APPLICATION SCENARIOS



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ETI Energy Snapshot

American Samoa U.S. Department of Energy
 Energy Snapshot Installed Capacity 42.2 MW RE
 Installed Capacity Share 13% Peak Demand
 (2019) 23.4 MW Energy Storage Energy
 Efficiency Energy Efficiency Standards Tax
 Credits Tax Reduction or Exemption Public
 Demonstration Restrictions on Incandescent
 Bulbs



Ta'u: An Island Using 100% Renewable Energy

Now, the island runs on a completely renewable microgrid that meets 100% of residents' energy needs through solar power and battery storage. In 2016, the founders of Maui, Hawaii-based company Mana Pacific helped design and implement Ta'u's solar-energy microgrid composed of over 5,300 solar panels.

Biden-Harris Administration Continues to Deliver Affordable Clean

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Establishment of SPC with Nippon Koei Co., Ltd. for an ...

with battery storage in American Samoa
RENOVA, Inc. (Chuo-ku, Tokyo; Founding CEO Yosuke Kiminami, hereinafter "RENOVA") utilizing its technological expertise to develop its own projects and business investments in the fields of renewable energy and energy storage. (Listed on the First Section of the Tokyo Stock Exchange, Stock code

SolaX Power announces \$1.5bn energy storage ...

The investment also extends to the development of smart energy systems that integrate solar power, storage, heating, and electric vehicle (EV) charging. By harnessing AI, Internet of Things, and big data, the ...



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