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.

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/kWhfor 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).

Where does American Samoa get fuel?

Fuel for American Samoa comes from Singaporewith 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.

Does Samoa have an emergency energy conservation plan?

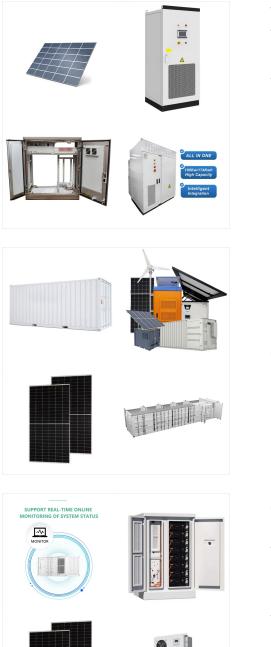
1979: The U.S. "Emergency Energy Conservation Act of 1979" requires the submission of an emergency energy conservation plan by each state or territory (Public Law 96-102, as amended). American Samoa adopted its Emergency Energy Conservation Plan in 1982(see Chapter 5, Annex A of ASCA 12 for plan details).

Does American Samoa have energy issues?

Although energy burdens pose a real challengein American Samoa, the territory is working to advance energy



justice. For example, the Territorial Energy Office provides home energy efficiency programs to help reduce energy costs for low-income households.



The stability and affordability of power from the new Ta"u microgrid, operated by American Samoa Power Authority, provides energy independence for the nearly 600 residents of Ta"u. The battery system also allows the island to use stored solar energy at night, meaning renewable energy is available for use around the clock.

: American Samoa Battery Storage Projects to Reach 100% Renewable Energy Under the 2017 Diesel Emissions Reduction Act (DERA) Clean Diesel Program, the U.S. Environmental Protection Agency's (EPA) West Coast Collaborative provided a \$82,960 to help two American Samoa islands operate on 100% renewable energy.

AMERICAN SAMOA (\$1,163,228) three projects. \$817,528 to the American Samoa Power Authority to purchase and install additional photovoltaic panels and battery storage on Ofu/Olosega in the Manu"a Islands to increase solar energy production to meet the community's present demand for energy. With this grant funding, ASPA will add additional





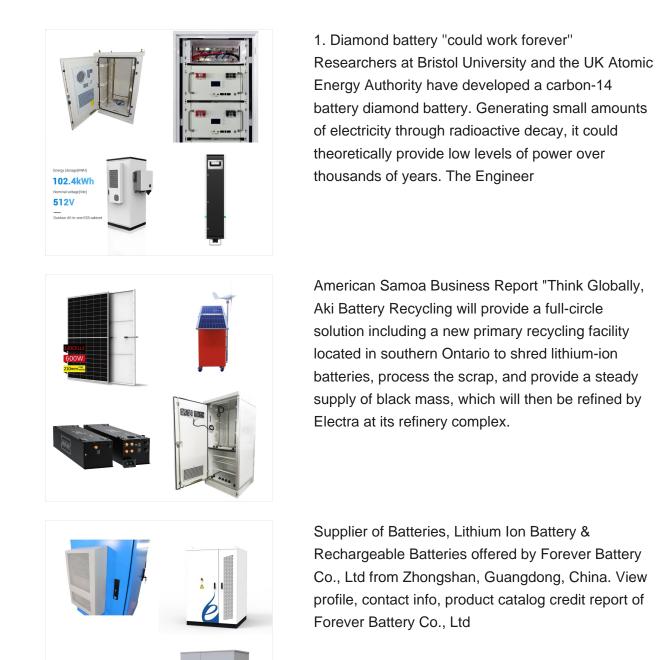
This factsheet provides a high-level overview of American Samoa's power and transportation sectors - as well as territorial policies, challenges, and opportunities related to renewable energy, energy efficiency, and resilience.

Report of Research for Samoa on EOL EV Battery Disposal Strategy and Solution. pdf (6.5MB) (NDC) for the energy and transport sector by 2030. According to Samoa's latest National Greenhouse Gas Inventory (2020), the road transport sector, largely dependent on fossil fuels, is the country's largest emitter of carbon dioxide (CO2



\$70,715 grant to help American Samoa's Ta"u island operate on 100% renewable energy. This grant helps funds the replacement of a smaller diesel-powered emergency backup generator. The entire system includes solar photovoltaic panels and battery storage. What is this project? EPA's Pacific Southwest Region provided a grant to the









The Samoa Energy Database has recorded up to 22 community -based biogas systems installed from 2010 t o 2022. These projects were funded by Improving the Performance and Reliability of Renewable Energy Power Systems in Samoa (IMPRESS), Youth With A Mission (YWAM), Samoa Farmers Association (SFA) and the Water and Sanitation Sector budget



Energy Crystals can only be found in the Underdust. Energy Crystals are used to make a few pieces of equipment, fuel, and batteries. Scanning Energy Crystals unlocks the Research Recipe for: Crystal Battery, Upgraded Tool Charger, Energy Crystal Fuel.



5 ? 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.





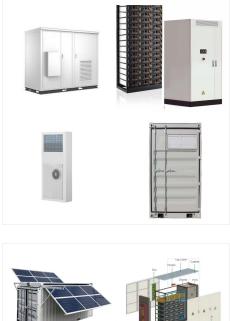
On the island of Ta"u in American Samoa Tesla has installed a state of the art, liquid cooled battery storage system. The battery system consists of 60 Tesla Power packs capable of storing 6MWh of energy and supplying ???

Energy density is the amount of energy a battery contains in proportion to its weight and size. Space saving with solid electrolytes means SSBs have more energy density, so more compact batteries can be designed that last longer and charge faster. QuantumScape's Forever Battery is not the first or only one of its kind. Numerous auto



Sinergy Flow is an Italian startup that develops a modular and scalable redox flow battery for energy storage on a multi-day basis. It features a customizable energy-to-power (E/P) ratio that allows utilities to tailor battery performance based on specific project needs. This allows for usage of up to 10 hours at a time.





American Samoa Power Authority (ASPA) \$42,201 to repower an existing diesel-powered stationary generator with a backup diesel generator, along with a zero-emission battery energy storage system. What is the project? ASPA, the public electrical utility in American Samoa, will repower an existing diesel-powered stationary



Treating and distributing water is a huge portion of American Samoa's energy cost and footprint. y of solar and 1,085 kW hours of a battery energy storage system. An additional 150 kW solar system and 500 kW hours of battery storage will be added to allow the Manu"a Islands to reach their self-sufficient, 100% renewable energy goal



UniEnergy Technologies planned to do it all ??? build the battery of the future, create good American jobs, crack the code for clean energy. Powered by a new chemical recipe cooked up in a taxpayer-funded federal lab, the private company's 40-ton batteries promised to bridge the gap between wind and solar.





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.



This strategic partnership leverages the complementary strengths of Dragonfly Energy and Bruker, bringing Dragonfly Energy's thorough expertise in liquid and solid-state battery technology together with Bruker's comprehensive suite of analytical solutions ???



of a battery energy storage system with a 150 kW backup diesel generator to provide 80% renewable energy. In 2017 EPA provided \$82,960 to ASAP to help the islands of Ofu and Olosega install and additional DERA 2016: American Samoa Achieves 100% Renewable Energy on Ta''u Island Author: US EPA - West Coast Collaborative









Our work included; Battery degradation curve and interconnection design 12 MW/6 MWh Electrical Storage System Owner's Engineer. American Samoa Battery Energy. American Samoa Battery Energy Storage project included: system modelling; impact assessment; sizing optimization; control criteria