

ABOUT US

The Pacific Centre for Renewable Energy and Energy Efficiency (PCREEE) was established under the Pacific Community (SPC) in Nukualofa, Tonga in April 2017. Its objective is to improve access to modern, affordable and reliable energy services, energy security and mitigation of negative externalities of the energy system (e.g. local pollution and greenhouse gas (GHG) emissions), by promoting renewable energy and energy efficiency investments, markets and industries in Pacific Island Countries and Territories (PICTs).



WHAT WE DO

We support the global transition to net zero emissions through accelerating RE and EE commercial innovation through TAs and programme that encourage investment, knowledge and people to deliver EV innovation.

We focus on (i) policy and regulatory framework (ii) Adopt standards and guidelines, (iii) Awareness and Promotion programme and (iv) Demonstration and upscale project in the PICTs, while considering renewables penetration, cost, business models, as well as coordination between the EV industry, electricity sector, government and consumers

WHAT HAVE WE DONE?

- Fiji**
EV Taxi Demonstration Project
- Samoa**
Sustainable Energy Awareness Programme
- Tonga**
EV Charging Station Demonstration Project
- Region**
EV Development in PICTs Webinar
EV Charging Guideline

CONTACT US

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Pacific
Community
Communauté
du Pacifique



PCREEE
Pacific Centre for Renewable Energy and Energy Efficiency
SE4ALL Centre of Excellence to Promote Sustainable Energy Markets, Industries and Innovation



The Future

ELECTRIC VEHICLE



WHAT IS EV?

Electric vehicle (EV) is a vehicle that operates on an electric motor instead of an internal combustion engine. It has a battery that drive the engine and it can be charged using electricity.

WHY USE EV?

Most of the fossil fuel imports are consumed in the transport sector. Decarbonising the transport sector is therefore one of the available strategies to the PICTs to improve their energy security, reduce fuel imports and reduce pollution.

TYPE OF EV

BATTERY EV

Fully-electric, meaning they are solely powered by electricity and do not have a petrol, diesel or LPG engine, fuel tank or exhaust pipe. They pug in tp an external electrical charging outlet to charge the battery.

E.g Nissan Leaf



PLUG-IN HYBRID EV

Powered by a combination of fuel and electricity. They can be charged with electricity using a plug but also contain an internal combustion engine that uses fuel.

E.g Mitsubishi Outlander PEV

HYBRID EV

Used fuel to charge battery. Instead of using an external plug to charge the vehicle, the electricity generated by the HEV's braking system is used to recharge the battery.

E.g Toyota Prius



BENEFIT OF EV



Reduced air pollution



Lower maintenance costs



Enhanced energy security



Greenhouse gas emissions can be eliminated if EVs are charged using renewable energy



Reduced fuel cost



Improved driving experience

