

Annexure 2-Off-grid lighting initiatives in the Pacific Countries

Common Initiatives in the Pacific Countries

| Name of the Initiative | Countries where the initiative is active/implemented | Funding Organization | Implementing body | Main objective | Start date | End date |
|---|--|---|--|--|------------|----------|
| Promoting Energy Efficiency in Pacific (PEEP) | The Cook Islands, Papua New Guinea, Tonga, Samoa and Vanuatu | Global Environment Facility and | Asian Development Bank and Pacific Alliance for Sustainability | To help in reducing the fossil fuel consumption through demand side energy activities | 2011 | 2014 |
| Pacific Islands Renewable Energy Project (PIREP) | Vanuatu, Tuvalu, Tonga, Solomon Islands, Samoa, Papua New Guinea, Palau, Niue, Nauru, Marshall Islands, Kiribati, Fiji, Federated States of Micronesia, Cook Islands | United Nations Development Programme | South Pacific Regional Environment Programme | To facilitate the widespread implementation and commercialization of renewable energy technologies in the various Pacific nations | | |
| Pacific Islands Greenhouse Gas Abatement through Renewable Energy Project (PIGGAREP) | Tuvalu, Tonga, The Cook Islands, Solomon Islands, Samoa, Papua New Guinea, Niue, Nauru, Kiribati and Fiji | United Nation Development Programme and Global Environment Facility | Secretariat of Pacific Community | To help in reducing the greenhouse gas emissions generated from the fossil fuels used in Pacific through widespread and cost effective use of renewable energy resources | | 2006 |
| North Pacific ACP (African, Caribbean and Pacific) Renewable Energy and Energy Efficiency Program (North-REP) | the Federated States of Micronesia, Palau and Republic of Marshall Islands | European Development Fund (EDF) | Secretariat of Pacific Community | To help develop the energy sectors | | |

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| Pacific Islands Energy Policy and Strategic Planning (PIEPSAP) | Cook Islands, Federated States of Micronesia, Fiji, Kiribati, Republic of Marshall Islands, Nauru, Niue, Palau, Papua New Guinea, Samoa, Solomon Islands, Tonga, Tuvalu and Vanuatu | European Energy Initiative and United Nations Development Programme | Pacific Islands Energy Policy and Strategic Planning | <ul style="list-style-type: none"> • Development of national energy policies. • Development of national strategic plans to implement policies • Awareness on energy efficiency | | |
| Pacific Environment Community (PEC) Fund | Cook Islands, Federated States of Micronesia, Fiji, Kiribati, Niue, Nauru, Palau, Papua New Guinea, Republic of Marshall Islands, Samoa, Solomon Islands, Tonga, Tuvalu and Vanuatu | The Government of Japan | Secretariat of Pacific Community | To support projects which focus on solar power generation and sea water desalination plant | | |
| Pacific Alliance for Sustainability | Cook Islands, Federated States of Micronesia, Fiji, Kiribati, Niue, Nauru, Palau, Papua New Guinea, Republic of Marshall Islands, Samoa, Solomon Islands, Tonga, Tuvalu and Vanuatu | Global Environment fund | Pacific Alliance for Sustainability | To increase the efficiency and effectiveness of GEF support to Pacific Island Countries, thereby enhancing achievement of both global environmental and national sustainable development goals | 1941 | |
| The Project for Introduction of Clean Energy by Solar Electricity Generation System | Tonga, Kiribati, Federated States of Micronesia, Palau, and Republic of Marshall Islands. | Japan International Cooperation Agency | Secretariat of the Pacific Community | Technical and Financial assistance was provided in the implementation of renewable energy generation projects | | |
| Green Micronesia Initiative | | | Chief Executives of the Micronesian governments. | To increase energy efficiency and energy conservation by 20 per cent and expand usage of renewable energy | 2010 | |
| World Bank's Sustainable Energy Finance Project | Cook Islands, Federated States of Micronesia, Fiji, Kiribati, Niue, Nauru, Palau, Papua New Guinea, Republic of Marshall Islands, Samoa, Solomon Islands, Tonga, Tuvalu and Vanuatu | | | To Improve and expand the usage of renewable energy in the country by providing incentives and subsidies on the use of renewable energy | | |

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| Pacific Region Infrastructure Facility | Tuvalu, Solomon Island and Vanuatu | World Bank | | To provide support for increased and equitable access to reliable and affordable energy. | | |
| Promoting access to renewable Energy in Pacific | Papua New Guinea, Solomon Islands, and Vanuatu | Asian Development Bank | The Pacific Approach Framework | To improve energy efficiency and enhance the usage of renewable energy. | | |
| Biomass resource assessment | Fiji, Kiribati, Samoa, Tonga, Tuvalu & Vanuatu | | | To prepare a training manual and associated training materials for biomass resource assessment | | |
| Pacific Islands Climate Change Action Program | Samoa, Cook Islands, Fiji Islands, French Polynesia, Guam, Kiribati, Commonwealth of the Northern Marianas, Marshall Islands, Federated States of Micronesia, Nauru, New Caledonia, Niue, Palau, Papua New Guinea, Samoa, Solomon Islands, Tokelau, Tonga, Tuvalu, Vanuatu, Wallis and Futuna. | | Pacific Islands Framework for Action on Climate Change | This Framework is intended to inform the decisions and actions of national, regional and international partners, and seeks to mainstream climate change into regional and national policies and plans across specific sectors, including: disaster risk management, water, waste management, agriculture, energy, forestry and land use, health, coastal zone management, marine ecosystems, ocean management, tourism, and transport. | | |
| Promotion of Renewable Energy and Energy Efficiency | | Dutch Cooperation Fund | | to promote investments in renewable energy, energy efficiency and greenhouse gas abatement technologies in developing member countries | 2002 | |

Country specific initiatives in the Pacific Countries

| Name of the country | Name of the program/initiative/project | Funding organization/Source | Implementing Body | Main objectives | Start date | End date |
|---|--|-------------------------------|---------------------------|--|------------|----------|
| Cook Island | Electrification of Pukapuka | French Government | | Electrification of Pukapuka through standalone solar PV | 1992 | |
| | Renewable Energy Chart | Not applicable | Government of Cook Island | Defines country roadmap for achieving 100% electrification by 2020 | 2012 | |
| Federated states of Micronesia (FSM) | Pohnpei Power Sector Development Project | Not defined | Not defined | To support the development of power system of Phonepi State and to reduce its energy dependency on fossil fuels by expanding and enhancing the generation through renewable means | | |
| Fiji | Fiji: Promoting Sustainability of Renewable Energy Technologies and Renewable Energy Service Companies | Global Environmental Facility | Not defined | To remove barriers to the implementation of renewable energy for rural electrification | | |
| | Namara, Toyotal Island and Vatulele Solar project | USAID and Fiji Government | Department of Energy | <p>The project was to install 100 solar home systems. The sites selected for installation were Namara, Toyota Island and Vatulele and each of the sites were provided with 30-40 SHS.</p> <p>In year 1985, SHS for 20 households were installed at Namara through a funding of Fiji \$30000 by Kadavu local government. In year 1994, SHS for 63</p> | 1983 | |

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| | | | | households were installed at Namara. | | |
| | Solar Home System for Provinces of Bua, Cakaudrove, and Macuata | | Department of Energy | Based on the survey of Department of Energy procurement of solar home system was done | 2003 | 2005 |
| | Naroi Photovoltaic Project | French Government | Department of Energy | Electrification of the village of Naroi on the island of Moala using solar photovoltaic modules. Approximately 170 households were equipped with pre-payment metered, solar powered lighting systems. No power points were included for radio or other appliance operation | 1998 | 1999 |
| | Vanua Levu solar project | Government of Japan | Pacific International Center for High Technology Research (PICHTR) and DoE | Implementation of SHS on 60 households for Vunivau by the year 2002. In second phase around 96 households (44 households near Nasua, 12 near Onelake and 40 near Vusasivo) were covered. | | 2002 |
| | Future Plans for Solar Home Systems | | Department of Energy | Approximately 20,000 households could be served with solar home systems | | |
| | Fiji Renewable Energy Power Project (FREPP) | GEF Pacific Alliance for Sustainability Programme | Not defined | To remove barriers to the widespread and cost effective use of grid based renewable energy supply | | |
| | Sustainable Energy Financing Project (SEEP) | World Bank | Government of Fiji | To make renewable energy and energy efficient equipment more affordable for the people | | |

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| Kiribati | Rural solar electrification programme | Kiribati Solar Energy Company (KSEC) | Kiribati Solar Energy Company | Distribution of around 2300 units of solar home systems | | |
| | Other projects | Not defined | Not defined | Solar home systems for lighting, Photo voltaic hybrid mini grid for Chevalier College, Abemama, Solar photo voltaic pump systems for outer islands secondary schools and solar desalination for water battery needs at KSEC office | | |
| Nauru | Energy Efficiency Action Plan (EEAP) | Not defined | Not defined | To improve energy efficiency | 2008 | 2015 |
| Niue | Niue's Renewable Energy and Energy Efficiency Programme | | Nauru Ministry of Finance | to contribute to poverty alleviation by improving the access to electricity and thus enhance the living conditions in Nauru | | |
| Palau | Project for Introduction of Clean Energy by Solar Electricity Generation Systems | Government of Japan | Government of Palau | To generate electricity by using PV modules. | 2009 | |
| Papua New Guinea (PNG) | Papua New Guinea Sustainable Development Program Limited (PNGSDP) | Papua New Guinea Sustainable Development Program Limited (PNGSDP) | Papua New Guinea Sustainable Energy Limited (PNGSEL) | To promote sustainable development of Papua New Guinea through affordable and sustainable infrastructure, capacity building, health and education | | |

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| Republic of Marshall Island | Marshall Islands' Renewable Energy Program | Not defined | Government of Republic of Marshal Island | Retrofitted lighting at Republic of Marshal Island's Energy Office, Streetlight retrofits from mercury vapour to Light Emitting Diode (LED), implementing solar streetlight project for Republic of Marshal Island's densely populated areas, solar PV grid-connected project for Majuro Hospital rooftop, | | |
| | 10th EU Development Program | Not defined | Not defined | To increase the use of renewable energy and energy efficient products. | 2008 | 2013 |
| | Sustainable Energy for All in Small Island Developing States (SIDS) | | | Electrification of 100% of urban households and 95% of rural outer atoll households by 2015, Provision of 20% of energy through indigenous renewable resources by 2020 and Improved efficiency of energy use in 50% of households and businesses, and 75% of government buildings by 2020 | | |
| Solomon Island | Sustainable Energy Finance project | World Bank | | To improve and expand the usage of renewable energy in country | | |
| Tonga | Japan International Cooperation Agency and Tonga Government combined Initiative | Japan International Cooperation Agency and Tonga Government | | To electrify outer island of Tonga by installing solar home system on thirteen outer islands, with a population of about 1,400 people | | |

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| | Combined Initiative of Tonga Power, Meridian energy, and New Zealand Aid Programme | Tonga Power, Meridian energy, and the New Zealand Aid | Tonga Power, Meridian energy, and the New Zealand Aid | To install a solar photovoltaic project of capacity 1MW which would be directly fed into the grid | | |
| | Outer Island renewable energy project | | | To supply sustainable, affordable and reliable electricity to outer islands which are not grid connected. | | |
| Tuvalu | Tuvalu's Sustainable Energy initiatives | | | This initiative aims to create awareness amongst the population about energy efficiency and conservation | | |
| Vanuatu | Vanuatu's Energy Roadmap | World Bank | Vanuatu's government | Vanuatu's government aims to develop Vanuatu's Energy Roadmap which would lay the foundation of future energy demand of the country. | | |
| | Energy for Rural Development Programme | | | This programme aims to identify potential for rural electrification and to electrify 80% of all the rural areas by 2025. | | |