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NEW ZEALAND

The Energy – Environment Nexus

A sustainable approach for the Pacific

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Energy, Ecosystems and Sustainable Livelihoods Initiative (EESLI) in the Pacific

Phase I: over M€ 4,5 Phase II: @ M€ 5

Participating Countries

Phase II: 10 countries: Federated States of Micronesia, Fiji, Kiribati, **Marshall Is.**, **Palau**, Papua New Guinea, **Samoa**, **Tonga**, **Tuvalu** and **Vanuatu**

The objective

To help accelerating the transition within participating Pacific SIDS to energy systems that are ecologically efficient, sustainable and socially equitable, by:

- (i) supporting partner countries in developing and implementing environmentally sound, sustainable energy policies; and
- (ii) implementing renewable energy pilot projects focusing on ecosystem conservation and livelihood enhancement.

Italian Support to SIDS

- Energy and environmental linkages in SIDS: a key issue since 2006 In 2007, EESLI formulation
- Italy founding member of the Global Island Partnership, active supporter GLISPA Secretariat and strong advocate of SIDS priorities
- Since 2006, specific programmes of the Italian Cooperation to target SIDS needs and in support of GLISPA strategic issues
- Italy portfolio to Pacific: about M€ 15 + M€ 5 for Caribe and other SIDS
- New engagements, e.g., SDG14 T5 Coastal protection



Energy, Ecosystems and Sustainable Livelihoods Initiative (EESLI) in the Pacific

- *Promoting the conservation agenda and dialogue*
- *Positioning natural resources management at the heart of countries response to energy needs*
- *Building knowledge on how critical ecosystem services are in supporting livelihoods*
- *Awareness raising on the potential impacts of energy projects on the environment but also practical solutions*
- *Contributing to building Climate Change resilience in Pacific*



Lessons Learned

- *National/ Regional Energy Frameworks/ Pathways (Energy Mapping) are essential to define impact of current and alternative sources and solution (e.g., Vanuatu National Energy Road Map or Samoa Low Carbon Policy Framework)*
- *Knowledge mapping and sharing (regional capacity)*
- *Demand and supply, plus environmental impact and livelihoods, to be central in the national and regional debate*
- *Environmental issues: clean energy production but also waste management, sustainable delivery systems, modern services, reduced dependence on imported fuel , impact on biodiversity*
- *How to scale up pilot projects and to transform their results into effective national strategies?*
- *In the fragile Pacific SIDS ecosystems, lifestyles are critical*
- *New opportunities created by Agenda 2030 (SDG 7b)*

Some practical cases Samoa

- *Jatropha and coconut: successful biofuel production (SROS)*
- *Twelve cars and a tractor running on it plus other ecoservices*
- *How to increase productivity under local conditions?*
- *Now in experimental farm, is it possible more farming with limited impact on the environment and food security?*
- *What is the potential role in Samoa Low Carbon Policy?*
- *What infrastructures & knowhow needed?*
- *Are available locally?*
- *Biofuel or biomass (technology)?*



Some practical cases Vanuatu

- *75 kW Micro hydropower system, 300 households benefitting*
- *Solar power system rehabilitation serving 25 schools and 15 clinics: 1.000 beneficiaries + 5.000 others*
- *What is the right mix between solar and diesel in space and time?*
- *How to further distribute the energy according to capacity, needs, but also to enhance livelihoods (public/ private use) and to limit the environmental impact?*
- *What infrastructures & knowhow needed?*
- *Are available locally?*



Some practical cases Tonga

- *Solar water pump system with training of operators and leaders*
- *What is the right mix between solar and diesel in space and time?*
- *How to distribute the energy according to capacity, needs but also environmental impact?*
- *Which are best batteries and how to properly discard them (technology)?*
- *Donors alignment*



That's all folks!!!

