SEIAPI-Capacity Building Plans

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Pacific Sustainable Energy Training Centre

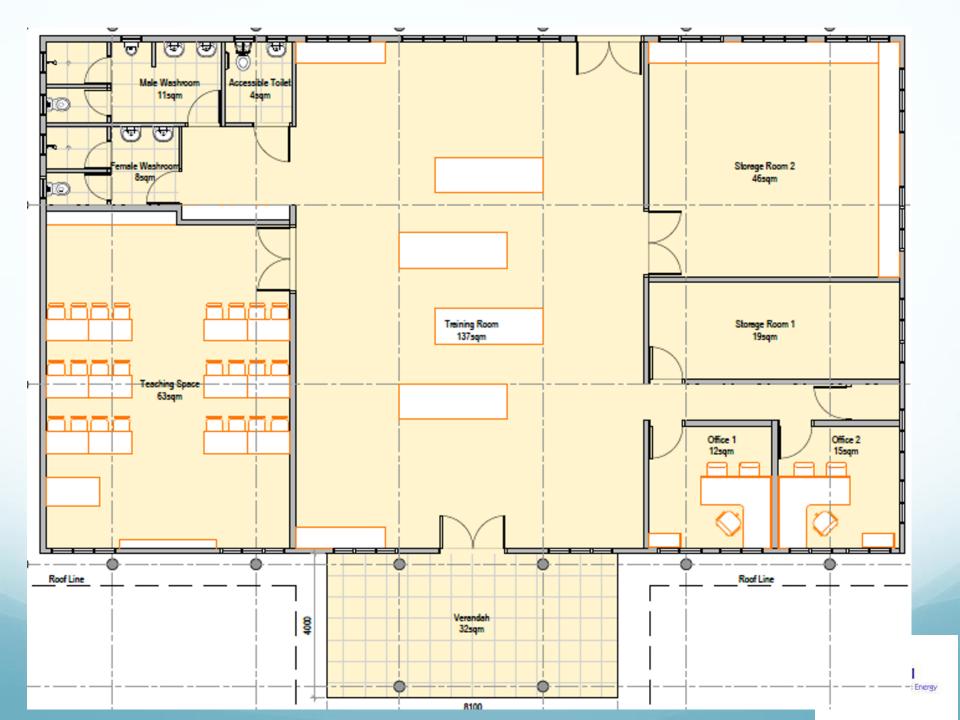
- Funding agreement has been signed.
- New building will be located at the USP Pacific TAFE campus in Suva
- Tender should be released later this year
- Hoped to be open Mid-2024



01 Locality Plan Scale: NTS











Sustainable Energy Online Courses

USP offers professional courses to keep you up to date within the Renewable Energy Industry. All courses are online and selfpaced, giving you the flexibility to set your own learning schedule.

These courses are offered in partnership with GSES, a global leader in renewable energy training and engineering.

Our Courses:



Grid-Connected PV Systems



Battery Storage Systems for Grid-Connected PV Systems



Off-Grid Solar PV Systems

All courses are offered in 3 variants: Design & Install, Design Only and Install Only

Find us at:

USP Pacific Tafe

Enrol here:

https://www.training.ac.fj/in fo/sustainable-energy/

USP Pacific TAFE Online Professional Course



Sustainable Energy **Online Short Courses**

USP offers professional short courses to keep you up to date within the Renewable Energy Industry. All courses are online and self-paced, giving you the flexibility to set your own learning schedule.

These courses are offered in partnership with GSES, a global leader in renewable energy training.

Our Short Courses:



Fault Current

Analysis



Operation &

Maintenance



Solar Battery

Fundamentals





Utility Scale

Solar Projects

Solar PV **Fundamentals**



AS5033 Updates

Power Cable Selection for PV

Monitoring and Control



Enrol here:

https://www.training.ac.fj/in fo/sustainable-energy/

USP Pacific **TAFE** Online Short Course



Solar Hot Water Systems

Solar Sales **Fundamentals**



USP Pacific Tafe

Enrollments

- 51 people from Vanuatu, Fiji, Solomon and Niue
- Broken down into:
 - Off-Grid PV Systems (incl fuel generator hybrids)
 - Design and Install: 28
 - Design Only6
 - Install Only 5
 - Grid Connect PV systems
 - Design and Install: 12



GIZ/PPA License Agreement

 In 2019 GIZ has purchased a once only license agreement for Pacific Power Association for GSES training resources for 4 courses

Course - skillset	Duration of course – Days
Grid-Connected PV Systems Design & Install (GC PV)	10 (15)
Grid-Connected PV Systems with Battery Storage Design & Install (GCwB)	10 (13)
Stand Alone Power Systems (Off-grid) Design & Install (SAPS)	15 (18)
Hybrid Systems Design and Install (HS)	5 (8)

Note: These are inline with the Pacific Unit Standards but also the relevant Units of Competency within the Australian National Framework



Involvement with Other Training Centres

- Supporting Solomon Islands National University establish training
- Discussions with Tonga about establishing training at Tonga Institute of Science and Technology
- Working with Vanuatu Institute of Technology re conducting practical training.
- Working with PNG Power Limited to establish training in PNG-this will just be grid connected but hoping to work with training centres to establish off-grid training
- Aim to visit Samoa and Kiribati in coming months.
- BIGGEST PROBLEM IS FUNDING PRACTICAL EQUIPMENT



SEIAPI Other Current Objectives

- Work with the relevant Pacific government departments, power utilities & where relevant donors to have:
 - the guidelines endorsed
 - international component (modules, inverter, batteries etc) standards enforced
- Work with PICT Governments to either have
 - them recognise SEIAPI accreditation program, or
 - the relevant national regulator develop a "solar technicians license".



SEIAPI Training Plan Phase 1

- In December 2022 SEIAPI developed a solar training plan
- Focused on building training capacity in 10 countries: Cook Islands, FSM, Kiribati, Palau, PNG, RMI, Samoa, Tonga, Tuvalu and Vanuatu with:
 - 2 trainers from each country (4 for PNG) undertaking online training courses
 - Trainers travelling to Fiji to undertake practical training courses and train-the-trainer sessions.
 - Practical equipment for 11 training centres
- Total budget AU\$1.4 million . Assuming US\$1 billion of donor money spent on solar systems in Pacific since 2010 this represents approx. 0.1% of donor assistance for PV
 - Note: AU\$1.1 million is for practical training equipment



SEIAPI Training Plan Phase 2

- Activity 1: Supporting the trainers for 2 years and working country-by-country to have the skillset training units accredited within their frameworks (where applicable) and working with govts to endorse accreditation and product standards.
- Activity 2: Developing new certificate courses combining electrical training with solar PV training — especially applicable for those PICs with no electrical training now. Developing new units of competence relevant to Operation & Maintenance etc
- Activity 3: Updating the existing weak PACTVET energy units to upgrade them to genuine TVET certificate courses.
- Requirement: 3 people for 3 years plus travel costs.



SEIAPI Training Plan Phase 3-Discussion

- Sustainable Energy Companies within the Pacific could benefit from experienced electricians/technicians from countries such as Australia, New Zealand, USA and ??? working with the pacific island technician/electricians installing systems and help pass on their practical experience.
- SEIAPI would like to discuss this further with donors.



SEIAPI Training Plan Phase 4

- GGGI recently undertook a study on Project Capacity Building to Strengthen Sustainable Implementation of Renewable Energy Technologies for Rural Energy Access
- This covered Fiji, Vanuatu, Solomon Islands and Papua New Guinea
- Project Objective:

To strengthen informed and inclusive decision-making by resource owners and local government officials for integration of Green Economy (GE) and Renewable Energy (RE) into local level planning and to strengthen implementation of renewable energy infrastructure for rural electrification



SEIAPI Training Plan Phase 4 cont.

- Ten training modules developed, aimed at
 - Local Government Officials
 - Traditional Community Leaders
 - Small businesses
 - Local technicians
- SEIAPI would like to work with GGGI to build on this project

Green Economy Module
- General Principles
- Energy Efficiency Basics
- Green Business Basics
- Inclusive Development
Renewable Energy Module
- RE General Principles
- Solar in the community
- Pico hydro in the community
- Solar O&M basics
- Pico hydro O&M basics
- RE Financial management



Further Information: www.seiapi.com

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