Pacific Biomedical Network Meeting

FIJI OXYGEN PROJECT





Senimili Vadei Biomedical Engineer Fiji Oxygen Project Cure Kids





2014 CK Innovation Seed Fund -**Stephen Howie**

Background – Fiji Oxygen Project

Preventing pneumonia deaths in Pacific

solutions pilot project

2015-2016

Armacup, Rotary, Fiji Water, ACCOR, CK Pilot project site – Nausori **Health Centre**



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FiO2 project Achievements

OXYGEN EQUIPMENT AND SOLAR SYSTEMS

Oxygen Concentrators Achievements

- Distributed and installed over 250 oxygen concentrators (OCs), over 100 pulse oximeters, and other oxygenrelated equipment,
- 44% of health facilities across Fiji are equipped with functional Oxygen Concentrators
- Additional 50 oxygen concentrators in stock awaiting distribution to increase our coverage of facilities with full oxygen availability.



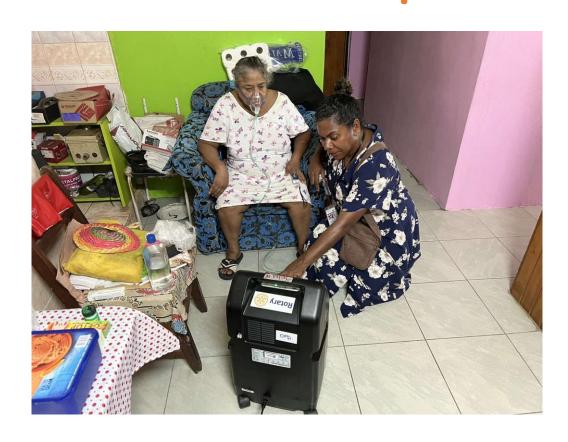






Oxygen concentrator Achievements

Development of a pathway and support for domiciliary oxygen therapy.





12 solar systems in health facilities to ensure 24/24h stable, good quality power supply to utilize oxygen concentrators and other essential medical equipment.

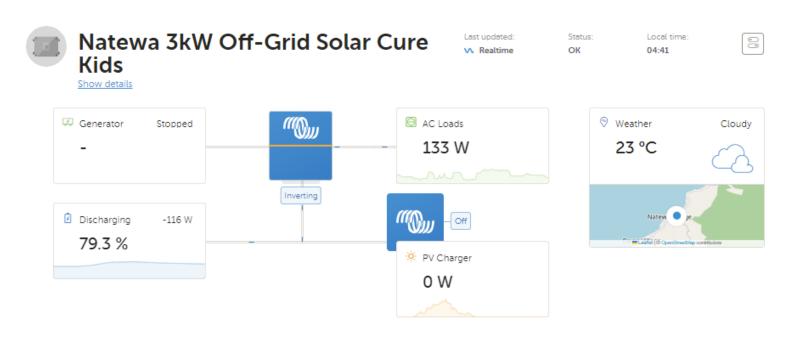


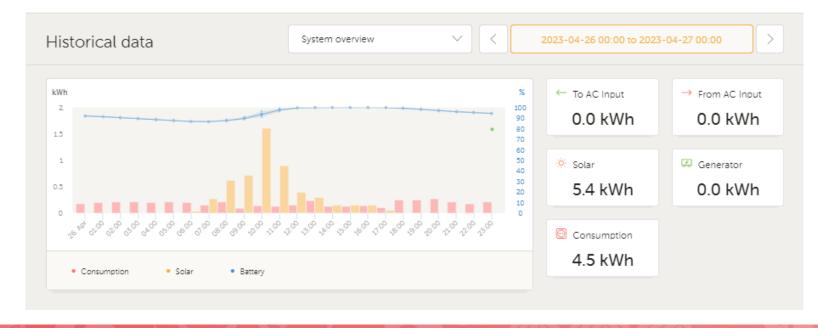
Scope of work include the electrification and or repair of solar systems of some staff quarters to guarantee minimum power supply (may contribute in the reduction staff turnover and so improve health care.





Realtime online monitoring of the solar systems to ease the Operation and Maintenance Tasks.





Continual technical assessment of health facilities to identify those that need immediate assistance with the provision of solar power.





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FiO2 project Achievements

TRAININGS/CAPACITY BUILDING AND OXYGEN BIOMEDICAL TEAM SETTING

Training to over 1500 clinical staff members, enabling them to utilize and maintain oxygen concentrators to treat a total of over 50,000 patients.





Cyclone Readiness Standard Operation Protocols created and taught for the Health Facilities relying on Solar Energy.





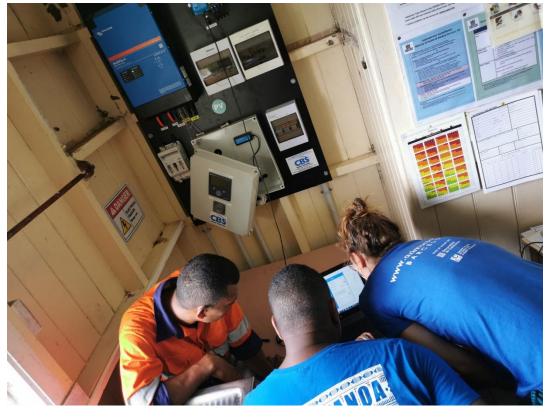
Online and in-house service training for over 20 biomedical technicians, equipping them with the skills and knowledge necessary for proper servicing and maintenance of oxygen concentrators.





Theoretical/hands-on training for biomedical engineers, biomedical technicians and electricians on detailed technical health facility assessments and solar system sizing, installation, verification, operation and maintenance.





Challenges

- Accessibility and Logistics
- Workshop Space & Storage
- 3. Biomedical Capacity Building
- 4. EquipmentManagement andTracking







Future Directions

- Integration of Project Personnel into MHMS
- Adoption and implementation of the National Oxygen Policy
- FiO2 Steering Committee oversight
- Research Outputs and Dissemination
- Biomedical Capacity Building







