

**EU-GIZ ACSE Final Project Report** Federated States of Micronesia

Project Title: Protecting islands through Learning and Leading in Adaptation and Renewable energy Education programme (PILLAR-Ed) FA: 81207079

> December 2016 -April 2020 Prepared by Koin Etuati, SPC Reviewed by Ravinesh Nand & Luse Uluitavuki, GIZ



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### Introduction

This report is the progress report (referred to as Annex 7 in the Financing Agreement) for the project: Protecting islands through Learning and Leading in Adaptation and Renewable energy Education programme (PILLAR-Ed) – PDD6; implemented in the Federated states of Micronesia (FSM), and funded by the European Union (EU) under the EU-GIZ Adapting to Climate Change and Sustainable Energy (ACSE) Programme. The reporting period covered is June to December 2019 including January to March 2020.

The report is structured to align to the GIZ "Capacity Works" Development Model and its Success Factors for capacity development.

These Success Factors as applied under EU-GIZ ACSE are:

- 1. **Strategy:** Summary of project context, objectives, planned activities and outcomes As embodied in the Project Design Document (PDDs);
- 2. Cooperation systems: Key, primary and secondary actors;
- 3. **Steering:** Stakeholder participation in implementing and steering the project; attaining project results based on operational planning and monitoring;
- 4. Learning and Innovation: Evaluations, knowledge attainment, distillation and sharing of knowledge at programme and project level.

### 1. Strategy

| Annexes | Project Start Up and Management                 |
|---------|---|
|         | 141209_FSM_Concept Note_FSM6                    |
|         | 150119_FSM_Concept Note Evaluation-FSM6         |
|         | 150422_EU-GIZ ACSE_FSM-MoU                      |
|         | 161207_EU-GIZ ACSE_FSM6-FA-Eng-81207079         |
|         | 161207_EU-GIZ ACSE_FSM6-FA-Ger-81207079         |
|         | 161207_EU-GIZ ACSE_FSM6-SA-81207079             |
|         | 161207_EU-GIZ ACSE_PDD-FSM06-81207079           |
|         | 170517 FSM6 Congresssional Resoultion No. 20-12 |
|         | 181112 FSM6_ FA 81207079_Addendum 1             |
|         | 191029 FSM6_ FA 81207079_Addendum 2             |
|         | 201202 FSM6_ FA 81207079_Addendum 3             |
|         |   |

Table 1: Summary of project start up documents

#### 1.1 Project Background, Objective and Outcomes

#### Background

The Federated States of Micronesia (FSM) is directly facing the challenges associated with climate variability and change. Simultaneously, the FSM is highly dependent on imported petroleum fuels – FSM currently spends approximately US\$50 million on fuel imports. Most fuel is used for electricity generation and transportation. For electricity there is an average tariff of US\$0.50 per kWh, which for the average wage earner can be a challenge – noting that the minimum wage for the FSM is US\$1.75 per hour. The FSM national energy policy has set a renewable energy (RE) target of 30% and energy efficiency (EE) target of 50%. The current priorities for the FSM as outlined in the respective state energy action plans identify the need to increase the penetration of renewable energy and improved energy efficiency. Transitioning to increased use of sustainable energy options will benefit the FSM economy and quality of life.

In the FSM, on average, 37.6% of schools have access to electricity. In 2009 the FSM education sector spent US\$4,789,855 on *other current expenditures*, it is likely a significant portion of these running costs went to energy, either for electricity or transport to isolated schools<sup>1</sup>. The FSM Strategic Development Plan 2004-2023 states that, "on most islands, schools have no electric power or running water and available water is of poor quality<sup>2</sup>".

Electricity supply at the four states is provided by four independent power utilities. The power utilities' past experiences with post pay customers on monthly tariffs incurring high debts have all the state utilities reverting to prepayment meters for ease of debt and revenue collection. The number of customers has increased over the past years particularly in the residential sector. It is estimated that 2400 customers still do not have access to prepayment meters.

Potential funding for the FSM over the period 2014 – 2020 is about US\$47m in grants for energy sector development. A portion (EUR 325,000 equivalent to about US\$366,000 and EUR 450,000 equivalent

<sup>&</sup>lt;sup>1</sup> JEMCO. 2009. JEMCO Resolution Compendium. http://kolonia.usembassy.gov/uploads/oT/\_H/oT\_HwK3HodU6IWoLBINieA/2009-09-jemco-resolutions.pdf

<sup>&</sup>lt;sup>2</sup> FSM Strategic Development Plan 2004-2023, volume 3, page 87.

to about US\$507,000) of this is from ACSE. FSM's current total capacity (conventional) is about 12.1MW. Based on current activities installed renewable energy capacity is 1.9MW as at December 2014. The recent concluded ADB technical assistance on strengthening of the legal framework and investment plans has recommended 6MW of renewable energy for Pohnpei and 2.5MW for Chuuk. This is in addition to the already approved 1.5MW for Yap. Further, for Kosrae a 1.65MW is envisaged. These adds-up to 13.55MW for the FSM, which is equivalent to about 2.71MW net of renewable energy or 70% of the renewable energy target.

Climate change impacts of notable concern include: extreme temperatures, sea level rise, ocean acidification, and heavy rainfall leading to flooding and landslides.<sup>3</sup> Some of the low-lying coral atolls in the north Pacific are especially vulnerable to sea level rise, storm surges, coastal inundation and salination of water lenses. Rising sea levels also exacerbate the pressure on fresh water lenses in these atoll environments and while an overall increase in rainfall is projected, the populations' reliance on water catchments for storage (as opposed to the water lens) will increase. The FSM has also experienced the cyclical effects of the El Niño, La Niña Southern Oscillation Cycle (ENSO) – related weather anomalies. Such climate variability is associated with drought; that often leads to: water shortages, crop failures, food shortages, and fires.

Despite the risks associated with climate change, there is a general lack of community awareness and preparedness for climate change and the natural hazards associated with them. Key recommendations in Fletcher and Richmond's recent 2012 study of climate change impacts in the FSM include:

- 1. Need for a vigorous climate change education programme for local communities, nongovernmental organizations, landowners, land-tenured decision makers, permitting authorities and staff, and the public.
- 2. Need for community-based adaptation that involves stakeholders throughout FSM and is consistent with the traditional community values inherent in Micronesian society<sup>4</sup>.

The FSM ACSE has two components: Protecting islands through Learning and Leading in Adaption and Renewable energy Education programme (PILLAR-Ed); and the Enhancing investments in renewable energy and energy efficiency technologies in the FSM. The ACSE in the FSM is coordinated through the Department of Resources and Development and Department of Finance (national government) with SPC as implementing partner.

#### **Objectives**

Increase the resilience of communities to climate change impacts and contribute to sustainable development by increasing awareness and use of sustainable energy. Specifically the project will achieve the following:

#### Outcomes

- Increased community knowledge on climate change adaptation and sustainable energy
- Increased use of sustainable energy measures, where feasible, in schools in the FSM
- Increased use of sustainable energy measures at the FSM national government buildings
- Increased adaptation measures related to potential climate change impacts

<sup>&</sup>lt;sup>3</sup> In 1997, heavy rains caused landslides leading to 20 deaths on Pohnpei (FSM government). These landslides were caused by the intense rainfall from tropical storm Jimmy.

<sup>&</sup>lt;sup>4</sup> Fletcher, Charles & Richmond, Bruce. 2010. Climate Change in the Federated States of Micronesia – Food and Water Security, Climate Risk Management, and Adaptive Strategies. ftp://soest.hawaii.edu/coastal/Micronesia/FSM%20Appendix\_ClimateChangeFSM.pdf

### 1.2 Description of Outcomes and Outputs

Table 2 aligns the planned outcomes with the planned outputs and describes the outputs as intended.

Table 2: Outcomes and Outputs descriptions

|           |   | Deliverables Descriptor   | Revised Deliverables  |
|-----------|---|---|---|
|           | ting Islands through Learning and Le<br>ogram (PILLAR-Ed)   | eading in Adaptation and Renewable Energy –   |   |
| Outcome a | Increased community<br>knowledge on climate change<br>adaptation and sustainable<br>energy                                    | Informed communities on sustainable energy options and climate change adaptation measures   | Communities were informed on these issues<br>through the Energy Efficiency Retrofit work<br>and the installation of water tanks as a<br>measure of adaptation to climate change |
|           | Educational and awareness materials on sustainable energy   | Developed: 8 pull-up banners; 1 conference banner<br>(6mx1m); brochures 1 A4-3 folds and A3-3 folds; 2                            | Promotional stickers and flash drives developed   |
|           | options and climate change<br>adaptation measures<br>developed, published and<br>disseminated to participating<br>communities | posters; 2 flyers (1-sided); 2 promotional stickers; 8<br>bill boards; 4 newsletters; 8 media releases                            | Booklet on Energy Efficiency in the Schools and Households  |
| Outcome b | Increased use of sustainable<br>energy measures, where<br>feasible, in schools in the FSM                                     | 4 schools undergoing energy audits and energy efficiency retrofitting   | 6 schools underwent some form of energy<br>audits, 1 Detailed, 3 preliminary and 2 Walk in<br>Audits. 5 Schools and 1 Office participated in<br>energy efficient retrofits.     |
| Output b  | Installation of sustainable<br>energy measures in selected<br>schools across the FSM  | 4 energy audits conducted in 4 schools; EE<br>retrofitting completed in 4 schools; at least 10%<br>reduction in electricity bills | 4 energy audits conducted in 4 schools; EE<br>retrofitting completed in 4 schools; at least<br>10% reduction in electricity bills   |

| Outcome c | Increased use of sustainable<br>energy measures at FSM<br>national government buildings  | All FSM national government buildings in Palikir retrofitted with energy efficient measures                   | All FSM national government buildings in<br>Palikir retrofitted with energy efficient<br>measures                              |
|-----------|--|---|--|
| Output c  | Installation of sustainable<br>energy measures in the FSM<br>national government buildings<br>in Palikir   | EE retrofitting completed in FSM national government buildings in Palikir; 10% reduction in electricity bills | EE retrofitting completed in FSM national government buildings in Palikir; 10% reduction in electricity bills                  |
| Outcome d | Increased adaptation measures<br>related to potential climate<br>change impacts  | 4 schools /communities with climate change<br>adaptation intervention results – access to water               | 6 schools/communities with climate change<br>adaptation interventions with installation of<br>24 Water tanks of 1,500 gallons. |
| Output d  | Climate change adaptation<br>intervention such as rainwater<br>harvesting and storage systems<br>improvement in schools<br>/communities across the FSM | 4 schools /communities with improved rainwater harvesting and storage systems                                 | 6 schools /communities with improved rainwater harvesting and storage systems  |

### 1.3 Major variations and changes in the project outline against the PDD

#### Jan to December 2017:

In this reporting period, there were no major variations in the project outline against PDD6. However, the project agreed during the steering committee to change the focus of activities to concentrate on a state level, than across all 4 states. So, for the water tanks installations, the project will concentrate on Chuuk State schools, in particular, the outer-atoll island schools which are particularly water insecure. Similarly, the energy audit component of the project will focus on schools only in Kosrae state. This decision is made to reduce expenditure on travel and to ease project coordination, as coordinating supply and installation logistics for 1 school in 4 states would see a lot of the project funds spent on logistics, rather than delivering on the ground infrastructure.

Also, the timelines were shifted for commencement to begin in June 2017 (from the original plans of commencement in 2016) due to delay in acceptance of the ACSE project by FSM congress.

#### Jan to June 2018:

The project request for an extension of project timeline with no financial cost due to the delay in the implementation of the project as it commenced in June 2017. The extension requested is to 30 September 2019 as opposed to August 2018, the initial timeline for this project.

Project management at SPC changed due to the staff turnover at SPC. Two Energy Programme Staff Koin Etuati and Frank Vukikomoala are working together with the PMU based at the SPC Regional Micronesia Office, to effectively monitor, report, and support the implementation of the activities.

#### July to December 2018:

Project extension timeline extended to 30 September 2019. There is no change in budget and costs categories.

#### Jan to June 2019:

No major variation on the project

#### June to December 2019:

Project extension timeline extended from 30 September 2019 to 30 April 2020. This request for extension was to allow ample time to deliver remaining activity, inspection of the water tank installations and reporting.

#### January to April 2020:

No major variation as the project is to finish in 30 April 2020. Extension of timeline to complete remaining work relating to water tank delivery.

## 1.4 Capacity Development Strategy

Table 3. Capacity Development Strategy

| Phase                                 | Individuals  | Organisations  | Society  | National level  |
|---------------------------------------|--|--|--|---|
|                                       | Competence development   | Organisational development   | Development of cooperation systems   | Development of enabling<br>frameworks   |
| SWOT in the area<br>of social concern | Maintenance Staff of the National Palikir<br>Building and Schools are capable to carry<br>out retrofit work, changing of energy<br>efficiency appliances.<br>Maintenance Staff/technicians need to<br>improve on energy audit management<br>skills, supervise day to day use of<br>electricity including providing tips for<br>cleaning<br>Communities in outer islands and remote<br>schools are actively contributed to the<br>construction of water tanks and bases with<br>supervision by the School Management. | Increase the number of technical<br>staff of the Energy Division under<br>FSM R&D to support<br>implementation of energy projects,<br>and more so to evaluate projects<br>outcomes and results against the<br>National Energy Master Plan. | Communities in Chuuk are<br>engaged in the school renovation<br>and water tanks installations. | FSM Energy Master Plan<br>highlighted measures to<br>improve energy use in<br>national government<br>buildings and schools. |
| Intended<br>capacities                | Improves capacity on energy efficiency and<br>conservation tips<br>Improves capacity on energy<br>managements including cleaning and<br>maintenance of lights and Air conditions in<br>schools   | Improves understanding of<br>National Government targets on<br>Energy Efficiency and to contribute<br>to these targets.  | Empowerment of communities<br>on RE and Energy Efficiency and<br>conservation.                 | Establish policy on energy<br>efficiency and awareness<br>and organisational set up   |
| Activities                            | KOSRAE STATE<br>- Energy efficiency retrofitting<br>services for participating school<br>POHNPEI STATE   |  |  | Development of Net<br>metering bill and<br>regulations  |

|   | <ul> <li>Energy Efficiency (EE) retrofitting<br/>at the FSM national government<br/>offices in Palikir</li> <li>CHUUK STATE         <ul> <li>Climate Change Adaptation (CCA)<br/>services for participating schools<br/>identified</li> </ul> </li> </ul> |   |  |
|---|---|---|--|
| Interaction with                          | Interactions with PUC and KUA, the utilities  |   |  |
| other levels                              | on the two states to provide electricity bills for the Palikir and Kosrae Schools.  |   |  |
|   | Interaction with UNICEF to provide baseline information on WASH for schools selected.   |   |  |
|   | LOA between SPC, R&D and the<br>Department of Education in Chuuk and<br>Kosrae.   |   |  |
|   | Liaised with DECEEM <sup>5</sup> on disaster impacts on the selected schools  |   |  |
| Complementarity<br>activities by<br>other |   | RENI Projects on Water tanks<br>installation in Pohnpei State |  |
| projects/actors                           |   | Water tanks in Chuuk by IOM and                               |  |
| in the same line                          |   | UNICEF and DECEEM   |  |
| of action                                 |   |   |  |

<sup>&</sup>lt;sup>5</sup> Office of Environment and Emergency Management, FSM national government

## 2. Cooperation System

### 2.1 Stakeholders

Table 4 below lists project stakeholders including *key actors* responsible for decisions and activities related to the implementation of the project, *primary actors* which are positively or negatively affected by the project, and *secondary actors* with indirect or temporary involvement with the project.

| Stakeholder  | Organization  | Role   |  |  |  |  |  |
|--|---|--|--|--|--|--|--|
|  | Key Acto  | rs   |  |  |  |  |  |
| Hubert Yamada –<br>Assistant Secretary<br>(Energy)                                 | FSM national government<br>Department of Resources<br>and Development | Lead National Agency – focal contact at the FSM national government  |  |  |  |  |  |
| Lara Studzinski  | Deputy Director,<br>SPC Northern Micronesian<br>Office, SPC           | Overall coordination with national stakeholders and provide oversight coordination and support when required.  |  |  |  |  |  |
|  | SPC   | Implementing Partner /Agency   |  |  |  |  |  |
| Koin Etuati  | SPC (Energy Programme)  | Project Manager – overall in charge of the<br>implementation providing guidance and<br>mentoring to the ICC and PA and advise to<br>the Steering Committee members |  |  |  |  |  |
| Frank Vukikomoala  | SPC (Energy Programme)  | Assist the Project Manager – in project<br>implementation and monitor of activities  |  |  |  |  |  |
| Shanupriya Sharma<br>and Shonal Gounder,<br>Finance Officer &<br>Finance Assistant | SPC (Energy Programme)  | Financial Administrator – provides the financial updates and reporting requirements  |  |  |  |  |  |
| Department of<br>Resources and<br>Development                                      | FSM national government   | Chair of the Steering Committee  |  |  |  |  |  |
| Quincy Lawrence<br>Department of<br>Education                                      | FSM national government   | Steering Committee Member and work together on the water tanks technical designs   |  |  |  |  |  |
| Major's Office   | Chuuk State   | Approves the selection of schools to install water tanks   |  |  |  |  |  |
|  |   |  |  |  |  |  |  |
|  | Primary Ac  |  |  |  |  |  |  |
| Contract Offered<br>(direct recruit by GiZ)  | GIZ based at Micronesia<br>Regional Office                            | GIZ Adviser, Christopher Frenkel based at<br>MRO– compiles all reporting requirements<br>and liaises with GiZ  |  |  |  |  |  |
| Silverina Pretrick   | SPC at the Micronesia<br>Regional Office                              | Project Assistant – PDD6 & PDD7.<br>Coordinates the day-to-day technical<br>activities with the respective stakeholders –<br>reference attached JD for details     |  |  |  |  |  |
| General Managers   | FSM State Power Utilities   | Focal point with the power utilities<br>particularly on the energy efficiency audits<br>and management trainings at the state levels                               |  |  |  |  |  |
| 1  | 1   |  |  |  |  |  |  |

**Secondary Actors** 

Table 4 – Stakeholders

| FSM as a country           | FSM national government | Progress towards its national energy policy target on RE  |
|----------------------------|-------------------------|---|
| Department of<br>Education | Kosrae State            | Progress towards reducing electricity<br>consumption and costs in all schools   |
| Mortlock Island<br>Schools | Chuuk State             | Progress towards improving water security<br>days during droughts as number of water<br>storage increased on the selected schools<br>and communities on the atoll islands of Ettal,<br>Sawantok, Kuttu, Oneop, Moch and<br>Lekinioch. |

### 2.2. Steering Structure

The actors who provide an important impetus for achieving sub-objectives, who are responsible for achieving objectives and sub-objectives of the project or who make political decisions participate in the steering structure of the project.

The function of this structure is to enable steering tasks to be performed, such as (e.g.) strategy, planning, coordination, control, monitoring, resource management and conflict management.

Table 4 shows participants of the steering structure that participate in the decision making process (e.g. working groups) or have a formal direct responsibility for decisions (e.g. steering meetings) in the steering of the project.

#### Table 5- Participation in the Steering Structure

| Possible steering participants        |                       |                                    |
|---------------------------------------|-----------------------|------------------------------------|
| Possible steering participants        | Participation         | Responsibility                     |
| Ms Jenny Brown                        | EU Delegation         | Donor Representation               |
| Hon. Marion Henry                     | Chair of the Steering | Signs LOA                          |
| Secretary, FSM RND                    | Committee             |                                    |
| Mr Hubert Yamada                      | Focal contact at FSM  | Overall coordination at FSM        |
| Assistant Secretary (Energy), FSM RND | RND                   | including                          |
| Secretary, FSM Department of          | Steering committee    | Coordination from DOE perspective  |
| Education (DOE)                       | member                | particularly with respect to       |
|                                       |                       | activities at schools              |
| Vice President, FSMDB                 | Steering committee    | All activities with the FSMDB      |
|                                       | member                |                                    |
| DECEEM – Office of Environment and    | Steering committee    | Represents the CC perspective      |
| Emergency Management, FSM             | member                |                                    |
| national government                   |                       |                                    |
|                                       |                       |                                    |
| Gavin Pereira                         | FSM ACSE Team         | Adviser and overall in charge of   |
| Technical Adviser, GIZ Suva           | member                | FSM ACSE from GIZ                  |
| Lara Studzinski,                      | Steering committee    | SPC Executive representative       |
| Director, SPC MRO                     | member                |                                    |
| Rupeni Mario – Sustainable Energy     | FSM ACSE Team         | Overall management of the project. |
| Adviser                               | member                | Left the project in April 2017.    |
| Koin Etuati, FSM ACSE Project         | FSM ACSE Team         | Overall coordination of            |
| Manager, SPC Geoscience Energy and    | member                | implementation of the FSM ACSE     |
| Maritime (GEM) Division               |                       |                                    |

| Christoph Frenkel                    | FSM ACSE Team | Adviser of FSM ACSE – contract      |
|--------------------------------------|---------------|-------------------------------------|
| Technical Adviser, GIZ MRO FSM       | member        | with GIZ completed in April 2019,   |
|                                      |               | left FSM end of March 2019.         |
| Silverina Pretrick, FSM ACSE Project | FSM ACSE Team | On the ground day-to-day activities |
| Assistant, SPC MRO                   | member        | of the FSM ACSE. Contract           |
|                                      |               | completed end of February 2020.     |
| Frank Vukikomoala, Energy Database   | FSM ACSE Team | Team Leader for the Water tank      |
| Officer                              | Member        | project                             |

# 3. Plan of Operations

### 3.1 Actual work implementation plan.

Table 6. Presents the timeframe in which project undertook key activities between July 2017 to April 2020.

|         |   |                 |           | RE\   | /ISED TIMELINE  | PROJE   | CT ENDS  | 5 30 AF | PRIL 2 | 020   |        |         |         |               |         |     |     |       |
|---------|---|-----------------|-----------|-------|-----------------|---------|----------|---------|--------|-------|--------|---------|---------|---------------|---------|-----|-----|-------|
|         | PROJECT TITLE:  | Protecting Isla | nds th    | rough | Learning and Le | ading i | in Adapi | tation  | and R  | enewa | ble En | E, ergy | ducatio | on program (P | LLAR-Ec | ł)  |     |       |
|         |   | FA 81207079     |           |       |                 |         |          |         |        |       |        |         |         |               |         |     |     |       |
|         |   | 2018            | 2019 2020 |       |                 |         |          |         |        |       |        |         |         |               |         |     |     |       |
| Re<br>f | Outputs / Activities  | Jan - Dec       | Jan       | Feb   | Mar             | Apr     | May      | Jun     | Jul    | Aug   | Sep    | Oct     | Nov     | Dec           | Jan     | Feb | Mar | April |
| a.      |   |                 |           |       |                 |         |          |         |        |       |        |         |         |               |         |     |     |       |
|         | i. Development material   | Ongoing         |           |       |                 |         |          |         |        |       |        |         |         |               |         |     |     |       |
|         | <ul><li>ii. Identification of events to<br/>educate/promote/raise awareness</li></ul>                     | Ongoing         |           |       |                 |         |          |         |        |       |        |         |         |               |         |     |     |       |
|         | iii. Educate/Promote/Raise<br>awareness on Sustainable Energy   | Ongoing         |           |       |                 |         |          |         |        |       |        |         |         |               |         |     |     |       |
|         |   |                 |           |       |                 |         |          |         |        |       |        |         |         |               |         |     |     | 1     |
|         | i. Criteria to select participating<br>schools developed and<br>endorsed by the PSC                       | Completed       |           |       |                 |         |          |         |        |       |        |         |         |               |         |     |     |       |
|         | ii. 4 schools selected  | Completed       |           |       |                 |         |          |         |        |       |        |         |         |               |         |     |     |       |
|         | iii. Energy audit consultancy ToR<br>developed  | Completed       |           |       |                 |         |          |         |        |       |        |         |         |               |         |     |     |       |
|         | iv. Recruit Consultant to conduct<br>energy audits- professional<br>fees and travels                      | Completed       |           |       |                 |         |          |         |        |       |        |         |         |               |         |     |     |       |
|         | v. Purchase energy audit<br>equipment   | Completed       |           |       |                 |         |          |         |        |       |        |         |         |               |         |     |     |       |
|         | vi. Energy audit training<br>/workshops at each state -<br>catering costs, venue hire and<br>stationeries | Completed       |           |       |                 |         |          |         |        |       |        |         |         |               |         |     |     |       |
|         | vii. Energy audit conducted and<br>report finalized   | Completed       |           |       |                 |         |          |         |        |       |        |         |         |               |         |     |     |       |

|    | viii. Energy efficiency retrofitting<br>works tendered   | completed      |        |               |                |         |               |         |          |      |     |    |           |                       |   |      |  |
|----|--|----------------|--------|---------------|----------------|---------|---------------|---------|----------|------|-----|----|-----------|-----------------------|---|------|--|
|    | ix. Supply and installation of<br>energy efficient technologies  | completed      |        | sign contract |                |         | oply<br>oment |         |          |      |     | ir | istallati | on                    |   |      |  |
|    | x. Monitor and report the energy efficiency impacts  | Ongoing        |        |               |                |         |               |         |          |      |     |    | data c    | ollection             | T |      |  |
| c. | Energy Efficiency (EE) retrofitting  | at the FSM na  | ationa | l gov         | ernment office | es in P | alikir        |         | <u> </u> |      |     |    |           |                       |   |      |  |
|    | <ol> <li>Prepare tender documents for<br/>energy efficiency retrofitting<br/>works at the FSM national<br/>government</li> </ol> | Completed      |        |               |                |         |               |         |          |      |     |    |           |                       |   |      |  |
|    | ii.Call for tender - advertising   | Completed      |        |               |                |         |               |         |          |      |     |    |           |                       |   |      |  |
|    | iii.Successful bidder identified and<br>contract signed - evaluation<br>committee refreshments                                   | Completed      |        |               |                |         |               |         |          |      |     |    |           |                       |   |      |  |
|    | iv.Contracting local installer for<br>retrofitting   |                |        |               |                |         |               |         |          |      |     |    |           |                       |   |      |  |
|    | v.Carry out EE retrofitting works at<br>the FSM national government<br>buildings in Palikir - contract<br>award                  | completed      |        |               | sign contract  |         | Retr          | rofit c | omple    | eted |     |    |           |                       |   |      |  |
|    | vi.Remaining LED lights (1804) to<br>hand over to FSM Government to<br>retrofit at other buildings                               | Ongoing        |        |               |                |         |               |         |          |      | сог |    | ssets re  | egister and<br>eports |   |      |  |
|    | vii.Monitor and report impacts   | Ongoing        |        |               |                |         |               |         |          |      |     |    |           |                       |   |      |  |
|    |  |                |        |               |                |         |               |         |          |      |     |    |           |                       |   |      |  |
| d. | Climate Change Adoptation (CCA   | ) services for | partic | ipatin        | g schools ide  | ntified |               |         |          |      |     |    |           |                       |   | <br> |  |
|    | i. Criteria to select participating<br>schools /communities<br>developed and endorsed by the<br>PSC                              | Completed      |        |               |                |         |               |         |          |      |     |    |           |                       |   |      |  |
|    | <li>4 schools /communities<br/>selected (one from each FSM<br/>state)</li>   | Completed      |        |               |                |         |               |         |          |      |     |    |           |                       |   |      |  |

|    | <li>Retrofitting measures identified<br/>to improve rainwater harvesting<br/>and storage at participating<br/>schools</li>          | Completed  |  |  |  |  |                            |          |                    |  |  |
|----|---|--|--|--|--|--|----------------------------|----------|--------------------|--|--|
|    | <ul> <li>iv. Equipment and materials<br/>specifications finalized and<br/>tender(s) advertised -<br/>advertisement costs</li> </ul> | completed  |  |  |  |  |                            |          |                    |  |  |
|    | v. Procurement Unit finalising RFQ  |  |  |  |  |  |                            |          |                    |  |  |
|    | vi. Disseminate and contract sign   |  |  |  |  |  |                            |          |                    |  |  |
|    | vii. Supply, transport and<br>installation of equipment and<br>materials  | Completed  |  |  |  |  | ated de<br>inal de<br>Nove | livery i |                    |  |  |
|    | viii. Supply of water tanks to Chuuk<br>State   |  |  |  |  |  |                            |          |                    |  |  |
|    | ix. Inspection of Supply and<br>Handover to Chuuk State   | Ongoing  |  |  |  |  |                            |          |                    |  |  |
|    | x. Installation of water tanks by<br>Chuuk DOE  | Ongoing  |  |  |  |  |                            |          |                    |  |  |
|    | xi. Monitor and report<br>performance   | Ongoing  |  |  |  |  |                            |          |                    |  |  |
|    |   |  |  |  |  |  |                            |          |                    |  |  |
| е. | Monitoring and Evaluation (M&E)   |  |  |  |  |  | -                          | -        |                    |  |  |
|    | i. Development of a TOR for<br>monitoring and evaluation  | ongoing  |  |  |  |  |                            |          |                    |  |  |
|    | ii. Impact survey conducted   | Ongoing  |  |  |  |  |                            |          | data<br>collection |  |  |
|    | iii. Analyze survey results and<br>report   | Ongoing  |  |  |  |  |                            |          |                    |  |  |
|    | v. Travels for monitoring   | Ongoing  |  |  |  |  |                            |          |                    |  |  |
|    | vi. Finalize M&E reports  | Ongoing  |  |  |  |  |                            |          |                    |  |  |
| f. | Project Steering Committee (PSC)  |  |  |  |  |  |                            |          |                    |  |  |
|    | i. Convene 3 PSC committee<br>meetings - venue hire,<br>refreshments and stationeries - will<br>be held with the FSM ACSE (energy)  | 2<br>Completed,<br>2 remaining (<br>December<br>2019, March<br>2020) |  |  |  |  |                            |          |                    |  |  |

| 1  | ii. Organiza travals for the DSC  |  | I | 1 | 1 | I. | 1 | 1 | 1 | 1 | I. | <br>i |  | 1 |  | 1 1 |
|----|---|--|---|---|---|----|---|---|---|---|----|-------|--|---|--|-----|
|    | ii. Organize travels for the PSC meetings                                   |  |   |   |   |    |   |   |   |   |    |       |  |   |  |     |
|    | iii. Capture meeting  | Technical<br>reports and<br>Financial<br>reports ( 2 |   |   |   |    |   |   |   |   |    |       |  |   |  |     |
|    | discussions, decisions and action items and, finalize meeting minutes       | more<br>Reports<br>including<br>final report)        |   |   |   |    |   |   |   |   |    |       |  |   |  |     |
|    |   |  |   |   |   |    |   |   |   |   |    |       |  |   |  |     |
| g. | Project Management Unit   |  |   |   |   |    |   |   |   |   |    |       |  |   |  |     |
|    | i. Recruit a Project Officer to be based at the NPRO                        | Completed  |   |   |   |    |   |   |   |   |    |       |  |   |  |     |
|    | ii. Office supplies for Project<br>Officer, Project Manager and ICC         | Ongoing  |   |   |   |    |   |   |   |   |    |       |  |   |  |     |
|    | iii. Travels for FSM ACSE staff<br>(ICC, PM & PO)                           | Ongoing  |   |   |   |    |   |   |   |   |    |       |  |   |  |     |
|    | iv. Cost sharing of Finance<br>Officer at SPC EDD (with FSM ACSE<br>Energy) | Ongoing  |   |   |   |    |   |   |   |   |    |       |  |   |  |     |
|    | Final Financial Report & Audit initiation                                   | Ongoing  |   |   |   |    |   |   |   |   |    |       |  |   |  |     |
|    | v. Cost sharing of PM with FSM<br>ACSE (Energy)                             | Ongoing  |   |   |   |    |   |   |   |   |    |       |  |   |  |     |
|    | vi. Communications  | Ongoing  |   |   |   |    |   |   |   |   |    |       |  |   |  |     |

## 4. Results Oriented Monitoring

### 4.1 Summary of Results

### In the second half of the year 2016, the project has achieved the following deliverables:

- i. PDD Financial agreements signed by GIZ and SPC
- ii. Project Steering Committee (PSC) established during the formulation of the concepts and Project Design Documents (PDD)
- iii. Drafted Job Description (JD) for Project Officer

### In the first half of the year 2017, the project has achieved the following deliverables:

- i. Frist tranche of EUR40,000 received by SPC
- ii. In Inception and project steering committee meeting has been schedule for the week of 12 June 2017 in Pohnpei
- iii. The JD for the Project Officer job sized by SPC HR and ready to advertise
- iv. FSM Congress formally approved the implementation of the ACSE in May 2017.
- v. TOR for Energy Audit for Kosrae Schools developed
- vi. A procurement plan for PDD6 developed
- vii. The In-country Coordinator identified with contractual arrangements finalised with GIZ.

#### In the second half of the year 2017, the project has achieved the following deliverables:

- i. Job description for Finance Assistance done and will be housed at SPC Economic Development Division in Suva, Fiji. The position co-shared with Tuvalu
- ii. TOR for Gender Analysis of the FSM ACSE project developed
- iii. FSM ACSE Communication Strategy compiled.
- iv. 1<sup>st</sup> year Work Plan developed

#### In the first half of the year 2018, the project has achieved the following deliverables:

Energy Efficiency (EE) retrofitting services for participating schools identified – Kosrae State

- i. Selection of schools for the preliminary energy audit and the detailed energy audit (in consultation with FSM Department of Education DoE) based on the demand of electricity (consumption statistics previous years) and the range of activities undertaken at the schools.
- ii. Signed a Contract with Northmore Pte Ltd to conduct the preliminary energy audit in four selected schools in Kosrae. A draft Addendum to the contract to extend the timeline to September to allow the consultant to submit the required reports.
- iii. Consultant submitted list of appropriate energy auditing tools for energy audits in public facilities to improve energy efficiency.
- iv. Conducted preliminary energy audit in four selected schools in Kosrae: Lelu Elementary School, Tafunsak Elementary School, Malem Elementary School and Kosrae High School. Training on energy saving measures and energy auditing for representatives of the educational sector (school principals and representatives of DOE Chuuk) and maintenance staff (schools and utility Kosrae). Mission report and participants list.
- v. Consultant conducted a detailed energy audit: Kosrae High School (KHS) selected for the detailed energy audit as it has the highest energy consumption– See document on the KHS detailed audit report and is yet to be finalised by the Consultant.

Energy efficiency (EE) retrofitting at the FSM national government offices in Palikir

- vi. Inspection report of delivered retrofitting equipment completed in June 2018
- vii. Consultation with FSM Department of Transportation, Communications and Infrastructure (TC&I) regarding the installation of new equipment
- viii. The work on the Installation of new energy efficiency equipment started by two staff of TC&I.

#### Climate change adaptation (CCA) services for participating schools identified

- ix. Discussion/Presentation with the Department of Education Chuuk State and Project Management Office Chuuk State regarding the collection of baseline information to select the schools with highest demand in Chuuk.
- x. Baseline information data on school water needs and assessments.
- xi. Assessment and selection of schools and of new water storage based on gathered baseline information and recommendations of WHO for emergency situations and locations on remote pacific islands.
- xii. Consultation with IOM (International Organization of Migration) and UNICEF and SPC Water Programme regarding latest projects and specific experience in the installation of water catchments and storage facilities in Chuuk State is ongoing and considered in the final water tanks assessment
- xiii. Development of required material list for RFQ was still ongoing missing data will be collected by DoE Chuuk in the field trip in late July 2018
- xiv. Development of necessary actions to implement water tanks installation, awareness on efficient use of water is still on going.

#### **Project Steering Committee Meeting**

There is no Project Steering Committee Meeting in first half of 2018.

#### In the second half of the year 2018, the project has achieved the following deliverables:

#### EE retrofitting services for participating schools identified

- i. Amendment to Contract for Northmore to complete the Energy Audits reports.
- ii. Audit Report submitted to SPC.
- iii. FSM ACSE Team presented audit report and recommendations to Kosrae Energy Work Group and Kosrae DOE representatives.
- iv. Conducted a Walk in Audit of the school buildings not covered in the Energy audit report
- v. Drafted the RFP for supply of EE appliances based on the Energy Audit report.
- vi. LOA for EE activity in Kosrae drafted and signed by all parties.

#### Energy efficiency (EE) retrofitting at the FSM national government offices in Palikir

- vii. Not all EE equipment were retrofitted in July 2018. From May to December; 19 ACs and 216 LED lights were fitted.
- viii. The PSC meeting proposed that the work on the retrofit to be contracted outs so the work is completed prior to project ended.

#### Climate change adaption (CCA) services for participating schools identified

- ix. Water tanks Technical Assessment of schools completed.
- x. Meeting with Chuuk DOE on selected schools and implementation plans.

- xi. Water tank basements technical design drafted.
- xii. LOA between SPC, Department of Resources and Development and DOE Chuuk for water tank installation drafted.

### Project Steering Committee

- xiii. Project Steering Committee Meeting held in August 2018.
- xiv. Extension of project timelines with no associated costs approved by GIZ for project extension to 30 September 2019.

### In the first half of the year 2019, the project has achieved the following deliverables;

### EE retrofitting services for participating schools identified

- i. The Request for Proposal (RFP) for the Supply of Energy Efficiency appliances for Kosrae schools send out in November 2018 and evaluation conducted in January 2019.
- ii. Supply Contract with South Austral for the supply of EE appliances for Kosrae Schools (CS 19/077) was signed on 11 March 2019 and first payment done.

### Energy efficiency (EE) retrofitting at the FSM national government offices in Palikir

- Two service contracts for the retrofit of EE appliances at Palikir National Building processed to fast track the work on retrofit. Final payment to be made once all EE appliances are fitted. The contractors could not complete the work by 15 April 2019.
- iv. Amendment to Contracts extended to 15 June 2019.

### Climate change adaption (CCA) services for participating schools identified

- v. Request for Proposal (RFP) for the Supply of Water tanks was distributed with closing of bids on 12 April 2019.
- vi. Request for Quotations (RFQ) distributed for water tank basements and accessories
- vii. No bids received on the first RFP for the supply of 24 water tanks
- viii. The ACSE team members (Frank and Hubert) visited DOE Chuuk and discussed again the technical assessment and a revised water tank technical assessments done.
- ix. Based on the discussions, the water tank capacity was reduced to 1500 gallons and this was approved by the DOE Chuuk, The recommended water tank capacity for the outer islands is 1500 gallon as this fits with the small outboard motors available on the islands to transfer tanks to the communities. In addition, the shipment of a 1500 gallon tanks is more feasible compared to 3000 and a 2000 gallon tanks.
- x. Drafted the TOR for the Contract from Chuuk DOE to supervise the shipment and installation of water tanks basements and catchments and water tanks.
- xi. Projects received competitive quotes from Fiji suppliers for the two set of materials but ACE Hardware provides a more cost effective price as freight is not included.

### **Project Steering Committee**

xii. A Hand over of the Project was conducted between the Christoph Frenkel to the Project Team members. A Steering Committee meeting was also organised on 14 March 2019.

#### In the second half of the year 2019 the project has achieved the following:

EE retrofitting services for participating schools identified

- i. The EE appliances for Kosrae Schools arrived in Kosrae State on August 5, 2019, Inspection was carried out by Silverina Pretrick, Assistant Project Officer.
- Installation work started in September till December 2019. The Kosrae DOE technicians identified the shortfall on the ACs capacity that all 24 ACs provided by the contractor were of 12KBTU capacity. The Contractor was to supply 6 x 24KBUT, 2 X 18 KBTU, 11X 12KBTU and 5 X 9 KBTU. The Project Manager visited the site and confirmed the shortfall. A report was provided to the supplier and that payment was made only for ACs of 12,000BTU. Additional ACs of the required sizes were purchased locally in Kosrae. Refer to Verification Report on the Supply of Energy Efficient Appliances.
- iii. Installation of the appliances mainly ACs were completed for some schools and EU GIZ ACSE stickers were put on the ACs and lights already installed.
- iv. Collection of electricity consumption data after the retrofit work done in December and will continue until March 2019 when opportunity to visit Kosrae for the PDD 7 work.

#### Energy efficiency (EE) retrofitting at the FSM national government offices in Palikir

v. Asset Register completed.

#### Climate change adaption (CCA) services for participating schools identified

- vi. ACE Hardware was the preferred supplier for the Water tanks and accessories. PO for the supply of Water tanks and Accessories developed.
- vii. The Chuuk DOE maintenance leader, Mr Ioshimi Toreph travelled to Pohnpei to verify the materials and also to assist to organise and transport of the Water tanks and materials to the Mortlocks Island Schools in Chuuk. TOR developed and approved by both SPC and Chuuk DOE.
- viii. The transportation of these materials was a very challenging task as there is no schedule of national boat to the Mortlock islands. In November 2019, two boats were approached to provide quotation. In addition to the quotation, the amount of materials to be shipped was considered. The BMA boat could not deliver the 24 water tanks in one trip and there is only option for two schedules. ACE company was also approached to provide a quotation and the boat was big enough to take all water tanks and all accessories in one trip. SPC office with the support of the Director and Team Leader of our GEP provided assistance through the compliance of the Procurement Policy. The Adam Brothers boat was offered the contract and to be charted to take the materials to the outer island schools.
- ix. Delivery of the water tanks was done on by DOE Maintenance Supervisor, Mr Ioshimi Toreph. Final report on the Delivery of the Water tanks completed and submitted.

#### Project Steering Committee

x. A Steering Committee was conducted in December 2019.

### In the period $1^{st}$ January – $30^{th}$ April 2020 the project has achieved the following.

#### EE retrofitting services for participating schools identified

- i. Kosrae State visited in early March 2020; inspection of EE appliances retrofit conducted
- ii. A service contract for the DOE Technicians to complete the work was approved and signed. The contract allowed the work to progress and complete before April 2020, end date of the project.
- iii. Installation work completed
- iv. Final Installation Report submitted, and payment done.

#### Energy efficiency (EE) retrofitting at the FSM national government offices in Palikir

- iv. With remaining funds available, 54 additional energy efficiency ACs procured through the RFQ.
- v. Additional EE ACs delivered to the Ministry of Finance Storage room and final payment.
- vi. R&D laptop and tablet purchased for the Department of Resources and Development.
- vii. Final Asset Register Handover completed and discussed with focal point at R&D.
- viii. The impact Study to be conducted by GEP team. The latest electricity data (September 2019 to February 2020) was only obtained by the TC& I on 27 March 2020.
- ix. Frank from SPC will compare the electricity bills after the retrofit work to the historical data (before the retrofits).

#### Climate change adaption (CCA) services for participating schools identified

- ix. The communities started the construction of water tanks in the Lower Mortlocks schools
- x. The project team reached out to the DECEM on inspection of the water tanks
- xi. Discussions by phones with Chuuk DOE on progress of water tanks installation
- xii. the installation work done by the school communities completed in five schools
- xiii. The need for physical inspection of the water tanks and handed over of the project was cancelled due to COVID-19.
- xiv. GIZ Suva office advises that the project can rely on the Chuuk DOE report as there is no option to travel to Chuuk
- xv. Chuuk DOE submitted Inspection/Validation report on the Installation of water tanks in selected schools.

### 4.2 Monitoring and Evaluation Plan

Table 7.Results against monitoring and evaluation plan

| Description  | Indicator   | Baseline   | Target   | Achievement   | Validation  |
|--|---|--|--|---|---|
| Objectives<br>Increase resilience<br>of communities to<br>climate change<br>impacts and<br>contribute to | Improved<br>resilience of<br>participating<br>communities and<br>schools to CC<br>impacts | No ACSE<br>intervention in these<br>communities and<br>schools                   | 8 communities/schools<br>and FSM national<br>governments<br>participating in CC<br>adaptation and SE<br>measures | Increase resilience to climate change<br>impacts (drought) in the Chuuk<br>lower Mortlocks 6 schools supplied<br>with additional 24 x 1500 gallons<br>water tanks | 181120 FSM 6 Water tanks<br>Capacity Assessment in the<br>Mortlocks – Chuuk State<br>191201 FSM 6 Water tanks and |
| sustainable<br>development by<br>increasing  | mpaoro  |  |  | SE measures included EE retrofits at the National Palikir building (30 ACs,   | accessories delivery report _DOE<br>Chuuk   |
| awareness and use<br>of sustainable<br>energy options  |   |  |  | 40 High Bay LED Luminaires, 1170<br>LED T8 tube lights)   | 200702 FSM 6 Inspection Report<br>_ Water tanks installation_ Lower<br>Mortlock Chuuk                             |
|  |   |  |  | Participation in SE by 5 schools<br>(Kosrae High School, Tafunsak   |   |
|  |   |  |  | Elementary School, Lelu Elementary<br>school, Utwe Elementary School and<br>Sansrik Elementary School) and 1  | 190608 FSM6 Palikir Govt<br>Building Installation Report  |
|  |   |  |  | Government Building in Kosrae<br>retrofitted with Energy efficient<br>appliances (LED lights LED lamps and<br>energy efficient ACs)                               | 200415 FSM 6 Installation Report<br>_EE appliances retrofit Kosrae<br>schools                                     |
| Outcome A<br>Increased<br>community<br>knowledge on<br>climate change                                    | Informed<br>communities on SE<br>options and CC<br>adaptation<br>measures                 | Minimum<br>information on SE<br>and CC adaptation<br>available to<br>communities | Participating<br>communities and<br>general public are well<br>informed about CC<br>adaptation and SE<br>options | Energy Audit training undertaken in<br>2018 targeting participating<br>communities only   | 180525 FSM6 Energy Audit-<br>Hands-on Training Report   |

| Description  | Indicator   | Baseline   | Target   | Achievement  | Validation   |
|--|---|--|--|--|--|
| adaptation and sustainable energy  | Number of<br>community<br>members are more<br>aware of climate<br>change adaptation<br>and sustainable<br>energy  | Community<br>members are more<br>aware of climate<br>change adaptation<br>and sustainable<br>energy  | Community members<br>are more aware of<br>climate change<br>adaptation and<br>sustainable energy   | Awareness activities were not<br>undertaken but booklet developed<br>on Energy Efficiency Handbook for<br>Schools and Communities (distribute<br>to Kosrae DOE and TC&I)   | 200430 FSM6 Energy Efficiency<br>Handbook for Schools and<br>Communities Draft V3.   |
| Output A<br>Educational and<br>awareness<br>materials<br>on sustainable<br>energy options<br>and<br>climate change<br>adaptation<br>measures<br>developed,<br>published and<br>disseminated to<br>participating<br>communities | Developed: 8 pull<br>up banners; 1<br>conference banner<br>(6mx1m);<br>brochures 1 A4-3<br>folds and A3-3<br>folds; 2 posters; 2<br>flyers (1-sided); 2<br>promotional<br>stickers; 8 bill<br>boards; 4<br>newsletters; 8<br>media releases<br>Number of<br>curriculums | Selected<br>communities<br>don't have<br>access to such<br>education and<br>awareness<br>materials on<br>sustainable<br>energy options<br>and climate<br>change<br>adaptation<br>measures<br>Number of<br>curriculums contains | 7000 printed<br>information in<br>the form of<br>leaflets,<br>brochures,<br>newsletters,<br>etc in English<br>and local<br>languages<br>Number of curriculums<br>contains CCA & SE | Not achieved from ACSE but<br>achieved through the sister<br>programme – CCPIR<br>ACSE maintained PPT that could be<br>used for future awareness raising on<br>energy efficiency<br>Not achieved from ACSE but<br>achieved through the sister<br>programme – CCPIR | 180522 FSM6 Air Conditioning<br>_PPT<br>180522 FSM6 Energy Auditing_<br>PPT<br>180522 FSM6 Energy<br>Management_PPT<br>180522 FSM6 Lighting _PPT |
|  | contains CCA & SE<br>Number of<br>materials printed<br>Number of  | CCA & SE<br>No new materials<br>0 new materials  | 7000 materials printed<br>9  | No printing of materials<br>Energy Efficiency Handbook for   | -  |
|  | products produced<br>Number of<br>materials<br>translated   | No new materials   | All materials translated   | Schools and Communities booklet<br>drafted.<br>Not achieved but the curriculum<br>content has been translated (with<br>sister programme- CCPIR)  | 200430 FSM6 Energy Efficiency<br>Handbook for Schools and<br>Communities Draft V3.   |
| Outcome B<br>Increased use of<br>sustainable energy  | 4 schools<br>undergoing energy<br>Audits and energy   | No energy audits and<br>no EE retrofitting   | Practical demonstration of SE  | 4 schools were Audited with 2<br>additional schools assessed by the<br>project management team. Only 5   | 181115 FSM 6 Kosrae Schools<br>energy Audit Final Report   |

| Description   | Indicator  | Baseline  | Target   | Achievement   | Validation  |
|---|--|---|--|---|---|
| measures, where<br>feasible, in schools<br>in the FSM   | efficiency<br>retrofitting<br>Number of energy<br>efficiency<br>measures<br>integrated to<br>schools   | 0 Number of energy<br>efficiency measures<br>integrated to schools  | and options such as EE<br>in selected schools<br>4 schools with 100%<br>energy efficiency<br>lighting                              | retrofitted as one school was to be<br>renovated.<br>Training on Basic energy auditing<br>undertaken of which 11 teachers and<br>employees from Kosrae DOE<br>participated.<br>5 schools have 100% energy       | 180525 FSM6 Energy Audit-<br>Hands-on Training Report<br>200415 FSM6 Installation Report<br>– Energy Efficiency Kosrae School |
| Output B<br>Installation of<br>sustainable energy<br>measures in<br>selected schools<br>across<br>the FSM | 4 energy audits<br>conducted in 4<br>schools; EE<br>retrofitting<br>completed in 4<br>schools; at least<br>10% reduction in<br>electricity bills | No energy<br>audits<br>conducted and<br>no EE<br>retrofitting in<br>participating<br>schools  | 4 energy audits<br>conducted and<br>4 schools with<br>EE retrofitting<br>works<br>completed with<br>10% energy<br>saving           | efficiency lighting<br>4 schools conducted energy audits –<br>3 Preliminary Energy Audits and 1<br>School a Detailed Energy Audit   | 181115 FSM 6 Kosrae Schools<br>energy Audit Final Report  |
|   | Number of schools<br>upgraded from<br>inefficiency to<br>efficiency inverter<br>Number of energy<br>audits completed<br>Number of schools        | Number of schools<br>upgraded from<br>inefficiency to<br>efficiency inverter<br>0 Number of energy<br>audits completed<br>0 Number of schools | 4 schools upgraded<br>from inefficiency to<br>efficiency inverter<br>6 schools energy audits<br>completed<br>5 schools retrofitted | <ul> <li>4 schools and 1 office (DOE)<br/>upgraded from inefficiency to<br/>efficient inverter</li> <li>4 schools audited</li> <li>5 schools and 1 Government building</li> </ul>                               | 200415 FSM6 Installation Report<br>– Energy Efficiency Kosrae<br>Schools  |
| Outcome C<br>Increased use of<br>sustainable energy<br>measures at FSM<br>national                        | Number of schools<br>retrofitted<br>All FSM national<br>governments<br>building in Palikir<br>retrofitted with<br>energy efficient<br>measures   | 0 Number of schools<br>retrofitted<br>Energy audit<br>conducted but no EE<br>retrofitting   | 5 schools retrofitted<br>Demonstrated SE<br>measures in<br>governments buildings<br>for future replications<br>in other premises   | 5 schools and 1 Government building<br>retrofitted<br>SE measures included EE retrofits at<br>the National Palikir building: 30<br>Energy efficient ACs, 40 High Bay LED<br>Luminaires, 1170 LED T8tube lights) | 190608 FSM6 - Palikir Govt<br>Building Installation Report  |

| Description  | Indicator   | Baseline  | Target  | Achievement  | Validation   |
|--|---|---|---|--|--|
| government<br>building   | % of led tube<br>lighting in 1 target<br>campus   | Some level of led<br>tube lighting in 1<br>target campus  | 100% led tube lighting<br>in 1 target campus  |  | 190608 FSM6 - Palikir Govt<br>Building Installation Report   |
| Output C<br>Installation of<br>sustainable energy<br>measures in the<br>FSM national<br>government<br>buildings in Palikir       | EE retrofitting<br>completed in FSM<br>national<br>government<br>buildings in Palikir;<br>10% reduction in<br>electricity bills | Only energy<br>audit<br>conducted; no<br>EE retrofitting in<br>FSM national<br>government<br>premises | EE retrofitting<br>works<br>completed with<br>10% energy<br>savings                             | National Complex retrofitted.<br>Impact assessment currently being<br>undertaken to assess the 10%<br>savings.   | 190608 FSM6 - Palikir Govt<br>Building Installation Report   |
|  | Number of SE<br>measures installed<br>in the FSM<br>national<br>government<br>buildings in Palikir                              | Number of SE<br>measures installed in<br>the FSM national<br>government<br>buildings in Palikir       | Number of SE<br>measures installed in<br>the FSM national<br>government buildings<br>in Palikir | <ul> <li>30 inverter type AC units<br/>installed.</li> <li>36 high bay LED luminaries<br/>installed at congress and<br/>supreme court</li> <li>1170 Tube lights installed</li> </ul> | 190608 FSM6 - Palikir Govt<br>Building Installation Report<br>Asset Register   |
| Outcome D<br>Increased<br>adaptation<br>measures related<br>to potential<br>climate change<br>impacts (Water<br>Infrastructures) | 4 schools/<br>communities with<br>climate change<br>adaptation<br>intervention<br>results – access to<br>water                  | Poor access to water<br>at participating<br>schools/communities                                       | Accessible safe drinking<br>water for communities   | 6 schools have increased water<br>storage security days for drinking.  | 180615 FSM6 Wash in School<br>Baseline Data Oneop ES<br>180615 FSM6 Wash in School<br>Basline Data _Mortlocks HS<br>180615 FSM6 Wash in School<br>Baseline Data Kuttu ES<br>180615 fsm 6 Wash in School<br>Baseline Data Satowan ES<br>180615 FSM6 Wash in School<br>Baseline Data Lekinioch ES and<br>Nomowonemu Jr |

| Description   | Indicator  | Baseline   | Target  | Achievement   | Validation  |
|---|--|--|---|---|---|
|   |  |  |   |   | 180615 FSM6 Wash in School<br>Baseline Data Ettal ES  |
|   | Number of schools<br>with enhanced<br>infrastructures and                                    | Some form of<br>infrastructures and<br>governance in place         | 4 schools'<br>infrastructures and<br>governance enhanced                                  | 6 schools have improved water<br>infrastructure with 24 water tanks<br>with bases and water cutters             | 180724 FSM6 Selection of Schools _ Water tanks PPT  |
|   | governance   |  |   | improvements  | 181120 FSM6 Water tanks<br>Capacity Assessment in the<br>Mortlocks_ Chuuk State               |
|   |  |  |   |   | 191120 TOR Water tanks and Accessories Delivery Report _ Chuuk DOE                            |
|   |  |  |   |   | 200702 FSM6 Inspection Report<br>_Water tanks Installation_ Lower<br>Mortlock Schools _ Chuuk |
| Output D<br>Climate change<br>adaptation<br>intervention<br>such as rainwater<br>harvesting and | 4 schools<br>/communities with<br>improved<br>rainwater<br>harvesting and<br>storage systems | No water<br>systems in<br>participating<br>schools<br>/communities | Access to safe<br>drinking water<br>improved in 4<br>schools<br>/communities              | Water storage reserve for safe<br>drinking of 3 GALLON PER CHILD<br>increased from average of 22 to 39<br>days. | 190125 FSM6 -Water Tank<br>Capacity Assessment_ Mortlocks                                     |
| storage<br>systems<br>improvement in<br>schools<br>/communities<br>across the FSM               | Number of schools<br>with improved<br>access to safe<br>drinking water                       | No water<br>systems in<br>participating<br>schools<br>/communities | 4 schools<br>/communities with<br>improved rainwater<br>harvesting and<br>storage systems | 6 schools have increased days of water storage.   | 200702 FSM6 Inspection Report<br>_Water tanks Installation_ Lower<br>Mortlock Schools _ Chuuk |

### 4.4 Summary of Project Outputs, Visibility and Validation Products

The table below lists all project outputs including Annex 7 technical reports and validation products to the monitoring and evaluation plan, workshop reports of all kinds, policies, plans, manuals, guidelines, project mid-term and final reports, consultancy reports, construction reports. These are presented in chronological order

| Outputs and Validation Products   | M&E        | Comms  | Project/Technical |
|---|------------|--------|-------------------|
|   | Validation | Output | Outputs           |
| 141209_FSM_Concept Note_FSM6  | •          |        |                   |
| 150119_FSM_Concept Note Evaluation-FSM6   | •          |        |                   |
| 150422_EU-GIZ ACSE_FSM-MoU  | •          |        |                   |
| 161207_EU-GIZ ACSE_FSM6-FA-Eng-81207079   | •          |        |                   |
| 161207_EU-GIZ ACSE_FSM6-FA-Ger-81207079   | •          |        |                   |
| 161207 EU-GIZ ACSE FSM6-SA-81207079   | •          |        |                   |
|   | •          |        |                   |
|   | •          |        | •                 |
| 170213 FSM6&FSM7 Project Technical Report                                       | •          |        | •                 |
| 1   |            |        |                   |
| 180101 FSM6 -Kosrae Schools Energy  | •          |        | ••                |
| Audit_TOR   |            |        |                   |
| 171114 FSM7&FSM7 ACSE PSC Meeting   | •          |        |                   |
| Minutes   |            |        |                   |
| 180123 FSM School Energy Audit_ RFQ   | •          |        |                   |
| Evaluation Report   |            |        |                   |
| 180312 FSM6 Schools Energy Audit  | •          |        | •                 |
| Contract_Northmore Gordon Ltd   |            |        |                   |
| 180522 FSM6 Air Conditioning_PPT  | •          | •      |                   |
| 180522 FSM6 Energy Auditing _ PPT   | •          | •      |                   |
| 180522 FSM6 Energy Management_PPT   | •          | •      |                   |
| 180522 FSM6 Lighting _PPT   | •          | •      |                   |
| 180615 FMS6_Wash in School-Baseline   | •          |        | •                 |
| Data_Ettal ES   |            |        |                   |
| 180615 FMS6_Wash in School-Baseline   | •          |        | •                 |
| Data_Kuttu ES   |            |        |                   |
| 180615 FMS6_Wash in School-Baseline   | •          |        | •                 |
| Data_Lekinioch ES and Nomwonemu Jr  |            |        |                   |
| 180615 FMS6_Wash in School-Baseline   | •          |        | •                 |
| Data_Moch Community School  |            |        |                   |
| 180615 FMS6_Wash in School-Baseline   | •          |        | •                 |
| Data_Mortlocks HS   |            |        |                   |
| 180615 FMS6_Wash in School-Baseline   | •          |        | •                 |
| Data_Oneop ES   |            |        |                   |
| 180615 FMS6_Wash in School-Baseline Data Satowan ES                             | •          |        | •                 |
| 180724 FSM6 Selection of schools_Water  |            |        |                   |
| Tanks PPT   | •          |        | •                 |
|   |            |        |                   |
| 180801 FSM6 Project Technical Report 2<br>180829 FSM6&FSM7 - PSC Meeting Minute | •          |        | •                 |
|   | •          |        |                   |
| 180901 FSM6 Project Technical Report 3  | •          |        | •                 |

Table 8: Project Outputs and Validation Products

| 181008 FSM6 Request Letter of Extension_30       | • |   |   |
|--|---|---|---|
| Sept. 2019_SPC                                   |   |   |   |
| 181115 FSM6 _Kosrae Schools Energy Audit         | • |   |   |
| Final Report                                     |   |   |   |
| 181120 FSM6 Gender Analysis                      | • |   | • |
| 181129 FSM6 Supply of EE Appliances _ Kosrae     |   |   | • |
| Schools _RFP                                     |   |   |   |
| 189531 FSM6 Kosrae Energy Auditing Hands-on      | • |   | • |
| Training Report                                  |   |   |   |
| 190125 FSM6 -Water Tank Capacity                 | • |   | • |
| Assessment_Mortlocks                             | - |   |   |
| 190131 FSM6 Supply of EE Appliances _Kosrae      | • |   | • |
| Schools _RFP Evaluation Report                   |   |   |   |
| 190207 FSM6_Water tank                           |   |   | • |
| Basements_RFP_SPC                                |   |   |   |
| 190314 FSM6&FSM7 - PSC Meeting Minute            | • |   |   |
| 190415 FSM6_Supply and Delivery _Rainwater       | • |   | • |
| Tanks & Materials_Appurtenances_RFP_SPC          |   |   |   |
| 190603 FSM6 Project Technical Report 4           |   |   | • |
| 190608 FSM6 - Palikir Govt Building Installation | • |   | • |
| Report   |   |   |   |
| 190731 FSM6 - Request Letter of Extension _31    | • |   |   |
| Dec. 2019_SPC                                    |   |   |   |
| 190630 FSM6 Technical Report 5                   | • |   | • |
| 191204 FSM6 -Request Letter of                   | • |   | • |
| Extension_SPC_30 Apr. 2020_SPC                   |   |   |   |
| 191601 FSM6 Kosrae Schools Retrofitting          | • |   | • |
| _LOA_SPC_ FSM R&D _ Kosrae DOE                   |   |   |   |
| 200221 FSM6_ FA 81207079_Addendum 3              | • |   |   |
| 200520 FSM6 Technical Report No. 6               | • |   | • |
| 181112 FSM6_ FA 81207079_Addendum 1              | • |   |   |
| 191029 FSM6_ FA 81207079_Addendum 2              | • |   |   |
| 200430 FSM6 Energy Efficiency Handbook –         | • | • |   |
| Schools and Communities Draft V3                 |   |   |   |
| 200415 FSM6 Installation Report – Energy         | • |   | • |
| Kosrae Schools                                   |   |   |   |
| 200702 FSM6 Inspection Report _Water tanks       | • |   | • |
| Installation_Lower Mortlock Schools _ Chuuk      |   |   |   |
| 181120 FSM6 Water tank capacity assessment       | • |   | • |
| in the Mortlocks                                 |   |   |   |
|  | • |   | • |
| XXXXXX FSM6 UNICEF Water Governance              |   |   |   |
| Report –   |   |   |   |
| Report –<br>200520 FSM6 Final Project Report     | • |   | • |
| Report –   | • |   | • |

### 4.3 Contribution to ACSE Programme Indicators

Table 9 summarises the contributions of the project to the ACSE Programme Level Indicators. The related validation products are also listed and are included, chronologically, in the list of Annexes.

|                      | Intervention<br>logic   | Objectively verifiable<br>indicators of<br>achievement   | Indicator Definition or<br>Remarks   | Target                     | Result                  | Validation              |
|----------------------|---|--|--|----------------------------|-------------------------|-------------------------|
| General<br>objective | Enhance<br>sustainable<br>livelihoods in<br>Pacific ACP<br>countries<br>(PACPs)   | <ul> <li>All PACP countries<br/>have improved on<br/>their MDGs /<br/>Sustainable<br/>Development Goals</li> </ul>                             | Yes – improved.<br>Refer to SDGs table.  | NA to project<br>reporting | NA to project reporting | NA to project reporting |
| Programme<br>purpose | To strengthen<br>the PACPs'<br>capacity to<br>adapt to the<br>adverse effects<br>of climate<br>change and to<br>enhance their<br>energy security<br>at national,<br>provincial and<br>local/communit<br>y level,<br>addressing the<br>different impact<br>on men and<br>women | <ul> <li>Number of<br/>interventions<br/>successfully<br/>implemented at<br/>national, provincial<br/>and local/community<br/>level</li> </ul> | <ul> <li>'Successfully implemented'<br/>means that the Intervention<br/>has been put in place and<br/>validated through<br/>appropriate documentation.</li> <li>1. Governance<br/>instruments</li> <li>2. Water<br/>infrastructures</li> <li>3. Livelihood<br/>infrastructures</li> <li>4. FAESP -<br/>Administrative<br/>Systems</li> <li>5. FAESP - Legislative<br/>instruments</li> <li>6. Coordination/Coop<br/>eration<br/>interventions</li> </ul> | NA to project<br>reporting | NA to project reporting | NA to project reporting |

|                                     |   | 7. Gender Balance<br>interventions  |                               |  |  |
|-------------------------------------|---|---|-------------------------------|--|--|
| regior                              | ased availability of<br>nal and national<br>nical support (RTSM   | 'Increased availability'<br>means there are more<br>technical personnel are<br>registered with RTSM   | NA to project level reporting | NA to project reporting  | NA to project reporting  |
| and m                               | ortion of women<br>nen in climate<br>ge decision-making<br>es   | Not clear   | NA to project level reporting | NA to project reporting  | NA to project reporting  |
| which<br>involv<br>in clin<br>adapt | ber of interventions<br>h promote the<br>vement of women<br>mate change<br>tation / sustainable<br>gy management<br>esses | 'Promoting involvement of<br>women' means measurable<br>actions taken in a project.<br>These may include gender<br>assessment/study and<br>analysis, or<br>workshops/trainings, or<br>establishment of a body<br>with fair participation and or<br>carrying out relevant event. | 4                             | Water infrastructure<br>baseline assessments at 7<br>schools (of the Mortlock<br>region) included the gender<br>element.<br>Oneop Elementary School<br>(ES), Mortlock ES, Kuttu ES,<br>Satowan ES, Lekinoch ES<br>and Nomwonemu Jr | 180615 FSM 6 _Wash in<br>School Baseline Data<br>_Oneop ES<br>180615 FSM 6 _Wash in<br>School Baseline Data<br>_Mortlock ES<br>180615 FSM 6 _Wash in<br>School Baseline Data _Kuttu<br>ES<br>180615 FSM 6 _Wash in<br>School Baseline Data<br>_Satowan ES<br>180615 FSM 6 _Wash in<br>School Baseline Data<br>_Lekinoch ES and<br>Nomwonemu Jr<br>180615 FSM 6 _Wash in<br>School Baseline Data _MOch<br>Community Hight |

|                     |   |  |   |                               |  | 180615 FSM 6 _Wash in<br>School Baseline Data _Ettal<br>ES<br>181120 FSM 6 Water Tank<br>Capacity & Design<br>Assessment in the<br>Mortlocks Chuuk State<br>181120 FSM6& FSM7<br>Gender Analysis   |
|---------------------|---|--|---|-------------------------------|--|--|
| Expected<br>results | Result 1:<br>Enabling<br>environment<br>and<br>communities'<br>adaptive<br>capacity to cope<br>with climate<br>change<br>challenges,<br>including<br>gender specific<br>challenges, are<br>enhanced | <ul> <li>At least one CCA<br/>project in at least<br/>eight PACP<br/>implemented by end<br/>of 2018</li> </ul>         | 'Implemented' means all on<br>groundwork completed.   |                               | Financial Agreement<br>extended to August<br>2020. | 161207_EU-GIZ         ACSE_FSM6-FA-Eng-         81207079         161207_EU-GIZ         ACSE_FSM6-FA-Ger-         81207079         161207_EU-GIZ         ACSE_FSM6-FA-Ger-         81207079         161207_EU-GIZ         ACSE_FSM6-SA-81207079         161207_EU-GIZ ACSE_PDD-         FSM06-81207079         181112 FSM6_FA         81207079_Addendum 1         191029 FSM6_FA         81207079_Addendum 2         201202 FSM6_FA         81207079_Addendum 3 |
|                     |   | At least 75% of national<br>implementation partners<br>on the regional EU-GIZ<br>ACSE steering<br>committee agree that | 'Capacity' means the ability<br>of people, organisations and<br>societies to manage their<br>own sustainable<br>development processes and | NA at project level reporting | NA at project level reporting                      | NA at project level reporting  |

| adaptive capacity has<br>been enhanced   | adapt to climate change.<br>This includes recognising<br>obstacles to development,<br>designing strategies to<br>tackle them, and then<br>successfully implementing<br>these.<br>Multilevel approach:<br>Individual competence e.g.<br>trainings, workshops,<br>mentoring<br>Organisational development<br>e.g. policies, plans,<br>establishments of new work<br>unit - REGIONAL, NATIONAL,<br>PROVINCIAL AND VILLAGE<br>LEVEL<br>Development of<br>cooperation and<br>partnerships e.g.<br>commission, bilateral<br>partnership through formal<br>partnership with MoU - ALL<br>LEVEL<br>Development of enabling<br>frameworks e.g. legislations<br>- National Level |                               |                               |                               |
|--|--|-------------------------------|-------------------------------|-------------------------------|
| Number of (new or<br>reviewed) national,<br>provincial and local<br>policies, strategies, plans<br>integrating CCA * | 'New or reviewed' products<br>'integrating CCA' means<br>only relevant pre approved<br>products produced by the<br>projects  | NA at project level reporting | NA at project level reporting | NA at project level reporting |

| Number of improved<br>water infrastructures<br>linked to the mitigation<br>of and/or adaptation to<br>climate change*  | Only infrastructures<br>improved through the<br>projects.<br>'Intervention' is the<br>establishment of functioning<br>system of the infrastructure.<br>'Improved' means capacity<br>of supply increased, security<br>of supply enhanced,<br>sustainability of<br>management improved,<br>robustness of design, and<br>sustainability of supply.<br>The result of the improved<br>infrastructure is enhanced<br>adaptation to climate<br>change | 4  | Plan was to boost<br>infrastructure at 7 schools<br>in the Mortlock region.<br>However only 6 schools<br>included in the<br>improvement work and<br>supply of 24 x 1,500 gallons<br>water tanks and<br>accessories. The 6 schools<br>with number of tanks: Ettal<br>ES (1), Moch (6), Oneop (1),<br>Lekinoich & Nomwenomu<br>(9), Mortlock High School<br>(5), Kuttu (2) .<br>Satowan school was part of<br>the initial assessments but<br>was excluded in the supply<br>of water tanks due to<br>damaged truss and rafters<br>which were not suitable for<br>rainwater catchment and<br>needed extensive<br>renovation. | 181120 Water Tank<br>Capacity & Design<br>Assessment<br>191201 FSM6 Water tanks<br>and Accessories Delivery<br>Report _ Chuuk DOE<br>200702 FSM6 Inspection<br>Report _Water tanks<br>Installation _ Lower<br>Mortlock Schools _ Chuuk |
|--|--|----|--|--|
| Number of improved<br>food production systems<br>linked to the mitigation<br>of and/or adaptation to<br>climate change | 'Improved food production<br>system' means capacity of<br>food production supply<br>increased, security of food<br>production supply<br>enhanced, sustainability of<br>food production<br>management improved,<br>robustness of food product<br>system design, sustainability<br>of food production systems<br>supplies. The result of the   | NA | NA at project level<br>reporting   | NA at project level reporting  |

|  | improved infrastructure is<br>enhanced adaptation to<br>climate change  |    |  |   |
|--|---|----|--|---|
| Number of o<br>proofed infr<br>linked to the<br>of and/or ac<br>climate char | astructures infrastructures' examples<br>e mitigation are:<br>laptation to  | NA | The Chuuk DOE were much<br>aware of water tanks<br>infrastructures that are<br>prone to cyclones and<br>engaged in the discussions<br>on the procurement and<br>inspections of the water<br>tanks and accessories. With<br>the limited supply of water<br>tanks accessories such as<br>the leaf eater, it was<br>impossible to build the<br>water tank infrastructures<br>according to international<br>standards. | 190521 FSM6 Chuuk Trip<br>Report May 2019_ FV   |
| Number of H<br>and commu<br>benefiting fr<br>projects*<br>Households         | nities benefiting from the impact<br>or CCA of the project.<br>Examples:<br>Communities and<br>households impacted by<br>water systems, solar |    | 594 students in the 6<br>schools are benefitting (276<br>males, 318 females<br>schools and communities<br>benefitting from increased<br>water security days.<br>The water tanks were   | 181120 Water Tank<br>Capacity & Design<br>Assessment<br>200702 FSM6 Inspection<br>Report _Water tanks<br>Installation_Lower |
| Communitie   | s systems, food production systems, sea wall.   | 4  | placed at the schools so the targeted communities can  | Mortlock Schools _ Chuuk  |

| Number of interventions<br>successfully replicated at<br>national, provincial and<br>local/community level*   | Replication as flagged in the<br>PDD.<br>"Intervention replicated'<br>means replicating existing or<br>past intervention before the<br>project (can be an improved<br>replica) at national,<br>provincial and<br>local/community level. E.g.<br>CK1. |    | have access during water<br>shortages. The water tanks<br>are accessible to the<br>students and their families.<br>Replication of water tanks<br>in Mortlock to improve<br>water security, the<br>project works with the<br>SPC – RENI project to<br>procure water tanks using<br>the RENI project<br>preferred supplier and<br>compliance with SPC<br>procurement policy. The<br>logistics in regards to the<br>delivery and installations<br>of water tanks were<br>replicated using past<br>water tank installations in<br>Chuuk such by DECCEM,<br>IOM and UNICEF.<br>New interventions are | 200702 FSM6 Inspection<br>Report _Water tanks<br>Installation_Lower<br>Mortlock Schools _ Chuuk<br>190608 FSM6 - Palikir Govt<br>Building Installation Report<br>200415 FSM6 Installation<br>Report – Energy Efficiency<br>Kosrae School Final |
|---|--|----|---|--|
|   |  |    | New interventions are<br>the EE appliances<br>retrofits work in Kosrae<br>and National Government<br>building in Pohnpei.   |  |
| Number of interventions<br>which combine<br>implementation and<br>strengthening of systems<br>for capacity building,<br>planning, public finance<br>management,<br>mainstreaming and<br>country-led | 'Combine intervention'<br>means intervention with<br>multi-dimensional approach<br>that includes 3 of the 5<br>components listed above.<br>E.g. TO31 -JNAPP II   | NA | NA  | NA   |

| pro<br>a h<br>Nu<br>wh<br>equ | ordination* (only<br>ojects that have this as<br>high level outcome)<br>umber of interventions<br>hich enhance gender<br>uality.* Note: sex<br>saggregated data | Validation - Gender<br>Products<br>'Enhance gender equality'<br>means where a project<br>demonstrates an<br>intervention at the activity  | 4  | Water infrastructure<br>baseline assessments at 7<br>schools (of the Mortlock<br>region) included the<br>gender element. 6<br>schools are Ettal<br>Elementary School, Kuttu | 181120 Water Tank<br>Capacity & Design<br>Assessment<br>181120 FSM6 & FSM7<br>Gender Analysis  |
|-------------------------------|---|---|--|---|--|
|                               |   | level on the equality of roles<br>for decision making.<br>E.g. Establishment of<br>gender-neutral decision-<br>making body; Gender<br>assessment influencing<br>infrastructure, policy, plan<br>and legislative design;<br>Trainings/ Workshops/<br>Consultations | Elementary School, Kutthe equality of rolesion making.blishment ofbeutral decision-body; Genderent influencingcture, policy, planlative design;c/ Workshops/ | Elementary School,<br>Lekinoch Elementary<br>School, Moch Community<br>School, Oneop<br>Elementary School,<br>Mortlocks High School,<br>Satowan Elementary                  | 200702 FSM6 Inspection<br>Report _Water tanks<br>Installation_ Lower<br>Mortlock Schools _ Chuuk   |
| peo<br>inte<br>Tra            | umber of trainings and<br>ople trained in SE/CCA<br>erventions<br>ainings<br>b. of people trained   | Number of trainings<br>validated by training<br>reports.<br>Number of people trained<br>recorded as by product of<br>training.  | 4  | 1 training on energy audit<br>conducted.<br>There is no training on<br>Water tanks installations<br>Male – 10<br>Female - 1   | 180525 FSM6_ Energy<br>Audit Hands on Training<br>Report<br>180522 energy Audit<br>Participants List Kosrae<br>190521 FSM6 Chuuk Trip<br>Report May 2019_ FV |
| est<br>GIZ<br>gov             | Imber of partnerships<br>tablished between EU-<br>Z ACSE and<br>vernments,<br>velopment partners,   | 'Partnerships established'<br>means formal partnership<br>established validated by<br>MoUs, or contracts  | 3  | 4   | 161207_EU-GIZ<br>ACSE_FSM6-FA-Eng-<br>81207079<br>190320 FSM6 Chuuk Schools<br>_Water Tank Installation  |

|   | regional organisations,<br>and the like.   |   |    | Financial Agreement has<br>been extended to August<br>2020.   | _LOA_SPC_ FSM R&D _<br>Chuuk DOE<br>190116 LOA EU GIZ ACSE<br>SPC FSM R&D Kosrae DOE |
|---|--|---|----|---|--|
| Result 2: Cost-<br>effectiveness<br>and efficiency of<br>energy systems<br>are improved<br>and<br>dependence on<br>fossil fuels is<br>reduced | At least one SE project in<br>at least seven PACP is<br>implemented by end of<br>2018              | 'Implemented' means all on<br>groundwork completed.   | 1  | Energy Efficiency retrofits in<br>Kosrae schools and DOE<br>Conference Office.<br>6 schools conducted energy<br>audits – 3 Preliminary<br>Energy Audits and 1 School<br>a Detailed Energy Audit and<br>2 schools Walk in Audits.<br>Only 5 schools retrofitted<br>with 100% energy efficiency<br>lighting.<br>5 schools and 1 Conference<br>Room at Department of<br>Education upgraded from<br>inefficiency to efficient AC<br>inverters.<br>Energy Efficiency retrofits in<br>Pohnpei National<br>Government building in<br>Pohnpei replaces inefficient<br>lights and ACs. | 200415 FSM6 Installation<br>Report – Energy Efficiency<br>Kosrae School Final        |
|   | Number of solar<br>infrastructures linked to<br>the development of<br>national renewable<br>energy | 'Solar infrastructures' refers<br>to solar systems (hardware<br>infrastructures).<br>Solar infrastructures E.g.<br>solar hybrid system or solar |    | 0 (No solar infrastructure from this project)   | NA   |
|   | Extra Kilowatts  | systems.  | NA | NA  |  |

| Number of biogas<br>infrastructures linked to<br>the development of<br>national renewable<br>energy               | 'Biogas infrastructures'<br>refers to biogas systems<br>(hardware infrastructures).<br>Biogas infrastructures E.g.<br>biogas system, biomass<br>plant.   | NA | NA  | NA  |
|---|--|----|---|---|
| Number of institutional<br>strengthening measures<br>linked to the<br>development of national<br>renewable energy | 'Institutional strengthening<br>measures' refers to formal<br>national legislative policy<br>and planning processes and<br>mechanisms.   | NA | NA  | NA  |
| FAESP 15 - Legislative<br>instrument  | (Definition & Contribution-<br>Formal Law, Regulation,<br>Policy, Plans.)  |    |   |   |
| FAESP 14 -<br>Administrative system (   | Definition & Contribution -<br>Measurable changes in the<br>governance system.<br>Validation - Report or<br>Agreement showcasing<br>changes)   |    |   |   |
| FAESP 25 - Increase<br>exposure to RE<br>knowledge  | (Definition & Contribution-<br>Quantifiable formal<br>engagement processes e.g.<br>training/<br>workshops/structured<br>community or technician<br>consultations/ onsite and<br>field assessment or survey.) |    | 1   | 181115 FSM6 _Kosrae<br>Schools Energy Audit Final<br>Report<br>189531 FSM6 _Kosrae<br>Energy Auditing Hands-on<br>Training Report |
| Number of households<br>and communities<br>directly benefiting from<br>SE projects*                               | Examples - Directly<br>benefitting e.g. communities<br>and households directly<br>receiving renewable energy   |    | 9 buildings at Palikir national<br>building benefitted with<br>retrofit work due to<br>electricity bills reduced. | 190608 FSM6 - Palikir<br>Govt Building Installation<br>Report   |

|                          | Households  | from the ramifications of<br>enacted legislations, or<br>national energy systems.<br>Communities types - school<br>community, social<br>community as defined by<br>govt.  |    | 5 schools benefitting from<br>EE retrofit work with total<br>no. of students is 1470, 742,<br>males and 728 females. The<br>projected total population<br>of Kosrae in 2020 is 6,732 <sup>6</sup> | 200415 FSM6 Installation<br>Report – Energy Efficiency<br>Kosrae School<br>200817 FSM6 Asset<br>external transfer SPC-FSM |
|--------------------------|---|---|----|---|---|
| C                        | Communities   |   | 4  | 5 schools with a total<br>population of 1470 students<br>and 153 staff, 83 males and<br>70 females  | R&D PILLAR-ED   |
| si<br>n                  | Number of interventions<br>successfully replicated at<br>national, provincial and<br>ocal/community level*  | Replication as flagged in the<br>PDD.<br>Replicating existing or past<br>intervention before the<br>project (can be an improved<br>replica) at national,<br>provincial and<br>local/community level.  | NA | NA  | NA  |
| a<br>re<br>re<br>b<br>ir | Number of institutions<br>and people covered by<br>respective interventions<br>related to capacity<br>puilding, planning, and<br>nstitutional<br>strengthening* | 'Interventions related to<br>capacity building, planning,<br>and institutional<br>strengthening measures'<br>refers to formal national<br>legislative policy and<br>planning processes and<br>mechanisms or<br>development of formal<br>training program for<br>institutions. | NA | NA  | NA  |

<sup>&</sup>lt;sup>6</sup> website : fsmstatistics.fm/social/population-statistics/

| Number of interventions<br>which enhance gender<br>equality  | Validation - Gender<br>Products<br>Definition: 'Enhance Gender<br>Equality - Where a project<br>demonstrates an<br>intervention at the activity<br>level on the equality of roles<br>for decision making.<br>Examples - Establishment of<br>gender-neutral decision-<br>making body; Gender<br>assessment influencing<br>infrastructure, policy, plan<br>and legislative design;<br>Trainings/ Workshops/<br>Consultations | Not applicable               | Only 1 Audit training<br>carried out in Kosrae for   | 181120 FSM6&FSM7<br>Gender Analysis<br>189531 FSM6 _Kosrae<br>Energy Auditing Hands-on |
|--|--|------------------------------|--|--|
| * Note: sex<br>disaggregated data<br>No. of people trained   |  |                              | underwent Detailed and<br>Preliminary Audits<br>Male – 10<br>Female - 1  | Training Report including participants list  |
| Number of partnerships<br>established between EU-<br>GIZ ACSE and<br>governments,<br>development partners,<br>regional organisations,<br>and the like. | Formal partnership<br>established validated by<br>MoUs, or contracts.  | 7 partnership<br>established | 150422 EUGIZ ACSE MOU<br>-FSM<br>181124 FSM 6 Energy<br>Audits Contract<br>Northmore<br>190116 LOA EU GIZ ACSE<br>SPC FSM R&D Kosrae DOE |  |

|   |  |    | 190314 FSM 6 Benster<br>Contracts_ EE retrofit<br>Palikir<br>190314 FSM Arington EE<br>retrofit Palikir<br>200315 FSM 6_ EE Kosrae<br>School Contract CPS 20-<br>117 Lugo R Skilling |    |
|---|--|----|--|----|
| Result 3:<br>Regional and<br>national<br>technical<br>expertise in the<br>field of CCA and<br>SE is created<br>and/or<br>enhanced | Nucleus of pool of<br>regional technical<br>experts (Regional<br>Technical Support<br>Mechanism - RTSM)<br>established and<br>functional | NA | NA   | NA |

## 5. Visibility and Learning

### 5.1 Project Visibility

The table below summarises the key visibility products of the project NOT including the core publications themselves.

Table 10: Developed project visibility products in chronological order

| Visibility Products                              | Timelines     |
|--|---------------|
| Energy Audit Training Power Point Presentations  | May 2018      |
| EU-GIZ ACSE Logos Stickers -                     | August 2018   |
| - 180806 FSM6 AC Stickers (6cm X 20 cm)          |               |
| - 180806 FSM6 Switch Stickers (2.5cm x 10 cm)    |               |
| EU-GIZ ACSE flash drives                         | November 2019 |
| Energy Efficiency Handbook- Schools and Domestic | August 2020   |
| Households                                       |               |
|  |               |
|  |               |

### 5.2 Learning

The learning from the project is to be able to know other similar projects and request for information sharing mainly when it does with procurement of equipment's. This was the case in this project, where we justify the need to purchase the water tanks from a preferred supplier done by the RENI project. We already had sent an RFP where there was no response and learning that there was a preferred supplier, from another project, we had to seek approval from our Procurement Unit to use the same supplier.

The project took long to confirm the boat for delivery of the water tanks, while there are options for National Government boats to assist with the delivery of water tanks, the government boats have very busy schedules as it oversees the shipping needs of all 4 States, therefore costs of delivery of such materials should be costed in every projects. In this case, there was enough savings to cover costs of boat charter.

Learnt that most schools in Kosrae and probably in other States are well maintained and schools are paying high costs of electricity due to the number of lights that seen in classrooms. However, there is limited maintenance work on the school lights such as cleaning of outside covers and wiping of lamps etc.

Learnt that working with communities mainly in the outer islands to contribute to projects is still being practiced in Chuuk, where the school communities participated in the construction and have ownership of the project. This is a sensitive issue in these areas where projects do not change the people's way of thinking for instance to get paid every time a project is being implemented. This is different to other countries such as Kiribati where the communities are not contributing freely but requires to be paid. In Chuuk, communities do the installations and any repair and maintenance is done by the Department of Education.

There are a lot of stakeholders that could have engaged better in the delivery of the project, the Environment Unit but were not much involved due to limited interactions with the Resources and Development departments at the national level.

#### 6. Annexes

The list of Annexes related to this report is provided in Table 11. These annexes will be submitted separately to this report due to their large size.

Table 11: List of Annexes

| Annexes | Project Start Up and Management   |
|---------|---|
| 1       | 141209_FSM_Concept Note_FSM6  |
| 2       | 150119_FSM_Concept Note Evaluation-FSM6   |
| 3       | 150422_EU-GIZ ACSE_FSM-MoU  |
| 4       | 161207_EU-GIZ ACSE_FSM6-FA-Eng-81207079   |
| 5       | 161207_EU-GIZ ACSE_FSM6-FA-Ger-81207079   |
| 6       | 161207_EU-GIZ ACSE_FSM6-SA-81207079   |
| 7       | 161207_EU-GIZ ACSE_PDD-FSM06-81207079   |
| 8       | 170517 FSM6 Congressional Resolution No. 20-12  |
|         |   |
|         | Project Results & Validation  |
| 1       | 160630 FSM6 UNDP Energy Audit   |
| 2       | 161230 FSM6&7 Technical Report No. 1 Q42016   |
| 3       | 170430 FSM6&FSM7 Final Technical Report No. 2   |
| 4       | 171114 FSM6&FSM7 ACSE PSC Meeting No. 1   |
| 5       | 180101 FSM6 -Kosrae Schools Energy Audit_TOR  |
| 6       | 180123 FSM6 School Energy Audit_ RFQ Evaluation Report                                  |
| 7       | 180312 FSM6 Schools Energy Audit Contract_Northmore Gordon Ltd                          |
| 8       | 180430 FSM6 UNICEF Water Catchment Assessment Report_ Roof lengths (Schools in Mortlock |
| 9       | 180430 FSM6 Harvesting and Storage facilities for schools in Chuuk_ Selection Scheme    |
| 10      | 180515 FSM6 Palikir Government Building EE Appliances Inspection Report                 |
| 11      | 180522 Energy Audit Participants List Kosrae  |
| 12      | 180522 FSM6 Air Conditioning_PPT  |

| 14       180522 FSM6 Energy Management Slides_PPT         15       180525 FSM6 Report on Energy Efficiency Training Sessions Kosrae State         17       180601 FSM6 Palikir National Government EE appliances Inspection Report         18       180615 FMS6_Wash in School-Baseline Data_Ettal ES         19       180615 FMS6_Wash in School-Baseline Data_Lektnich ES and Nomwonemu Jr         21       180615 FMS6_Wash in School-Baseline Data_Moch Community School         22       180615 FMS6_Wash in School-Baseline Data_Moch Community School         23       180615 FMS6_Wash in School-Baseline Data_Moch Community School         24       180615 FMS6_Wash in School-Baseline Data_Moch Community School         25       180701 FSM6&FSM7 Mission Report Water tanks + Net metering Chuuk         26       180724 FSM6 Selection of schools_Water Tanks + Net metering Chuuk         26       180724 FSM6 Selection of schools_Water Tanks + Net metering Chuuk         26       180806 FSM6 Switch Sticker (2.5cm x 10cm)         29       180806 FSM6 Technical Report No.3         30       180829 FSM6&FSM7 -EU GIZ ACSE PSC Meeting Minute No. 2         31       181112 FSM6 FA 81207079 Addendum 1         33       181112 FSM6 FA 81207079 Addendum 1         34       181120 FSM6 Gender Analysis         36       181120 FSM6 Rept Supply of EE Appliances_Kosrae Schools                                    | 13 | 180522 FSM6 Energy Auditing _ PPT                                       |
|---|----|---|
| 15       180522 FSM6 Lighting Slides_PPT         16       180525 FSM6 Report on Energy Efficiency Training Sessions Kosrae State         17       180601 FSM6 Palikir National Government EE appliances Inspection Report         18       180615 FMS6_Wash in School-Baseline Data_Kuttu ES         19       180615 FMS6_Wash in School-Baseline Data_Kuttu ES         20       180615 FMS6_Wash in School-Baseline Data_Moch Community School         21       180615 FMS6_Wash in School-Baseline Data_Moch Community School         22       180615 FMS6_Wash in School-Baseline Data_Moch Community School         23       180615 FMS6_Wash in School-Baseline Data_Moch Community School         24       180615 FMS6_Wash in School-Baseline Data_Stowan ES         25       180701 FSM6&FSM7 Mission Report Water Tanks + Net metering Chuuk         26       180724 FSM6 Selection of schools_Water Tanks + Net metering Chuuk         26       180724 FSM6 Selection of schools_Water Tanks_PPT         27       180806 FSM6 Ac sticker (Ccm x 20cm)         28       180806 FSM7 -EU GIZ ACSE PSC Meeting Minute No. 2         31       18108 FSM6 Request Letter of Extension_30 Sept. 2019_SPC         32       181112 FSM6 FA 81207079 Addendum 1         33       181112 FSM6 Gender Analysis         36       18129 FSM6 RFP Supply of EE Appliances_Kosrae Schools         37   | 14 |   |
| 17180601 FSM6 Palikir National Government EE appliances Inspection Report18180615 FMS6_Wash in School-Baseline Data_Ettal ES19180615 FMS6_Wash in School-Baseline Data_Lekinioch ES and Nomwonemu Jr21180615 FMS6_Wash in School-Baseline Data_Lekinioch ES and Nomwonemu Jr21180615 FMS6_Wash in School-Baseline Data_Moch Community School22180615 FMS6_Wash in School-Baseline Data_Moch Community School23180615 FMS6_Wash in School-Baseline Data_Oneop ES24180615 FMS6_Wash in School-Baseline Data_Satowan ES25180701 FSM6&FSM7 Mission Report Water tanks + Net metering Chuuk26180724 FSM6 Selection of schools_Water Tanks_PPT27180806 FSM6 AC sticker (6cm x 20cm)28180806 FSM6 Echnical Report No.330180829 FSM6&FSM7 -EU GiZ ACSE PSC Meeting Minute No. 231181108 FSM6 Request Letter of Extension_30 Sept. 2019_SPC32181112 FSM6 FA 81207079 Addendum 133181115 FSM6_Kosrae Schools Energy Audit Final Report34181120 FSM6 Gender Analysis36181129 FSM6 REPS Supply of EE Appliances_Kosrae Schools37181231 FSM6 Technical Report No. 438190116 FSM6 LOA_EU GIZ ACSE_SPC_FSM R&D_Kosrae DOE39190131 FSM6 Technical Report Kosrae Schools EAppliances40190207 FSM6_Water tank Basements_RFP_SPC41190314 FSM6&FSM7 -PSC Meeting Minute No.342190314 FSM6&FSM7 -PSC Meeting Minute No.343190314 FSM6&FSM7 -PSC Meeting Minute No.344190320 FSM6 LOA_SPC_FSM R&D_Chuk DOE Water tank In  | 15 | 180522 FSM6 Lighting Slides _PPT  |
| 18180615 FMS6_Wash in School-Baseline Data_Ettal ES19180615 FMS6_Wash in School-Baseline Data_Lettal ES20180615 FMS6_Wash in School-Baseline Data_Lethioch ES and Nonwonemu Jr21180615 FMS6_Wash in School-Baseline Data_Mortlocks HS23180615 FMS6_Wash in School-Baseline Data_Mortlocks HS24180615 FMS6_Wash in School-Baseline Data_Oncop ES24180615 FMS6_Wash in School-Baseline Data_Satowan ES25180701 FSM6&FSM7 Mission Report Water tanks + Net metering Chuuk26180724 FSM6 Selection of schools_Water Tanks_PPT27180806 FSM6 AC sticker (6cm x 20cm)28180806 FSM6 Echnical Report No.330180829 FSM6&FSM7 -EU GiZ ACSE PSC Meeting Minute No. 231181008 FSM6 Request Letter of Extension_30 Sept. 2019_SPC32181112 FSM6 FA 81207079 Addendum 133181115 FSM6_Kosrae Schools Energy Audit Final Report34181120 FSM6 Gender Analysis36181122 FSM6 Fachnical Report No. 437181231 FSM6 Technical Report No. 438190116 FSM6 LOA_EU GIZ ACSE_SPC_FSM R&D_Kosrae Schools37181231 FSM6 Technical Report No. 438190116 FSM6 Contract Arington EE retrofit Palikir41190314 FSM6 Contract Arington EE retrofit Palikir42190314 FSM6 Contract Arington EE retrofit Palikir43190314 FSM6 Contract Benster EE retrofit Palikir44190320 FSM6 LOA_SPC_FSM R&D_Chuk DOE Water tank Installation45190414 FSM6 AFSM7 - PSC Meeting Minute No.344190320 FSM6 LOA_SPC_FSM R&D_Chuk D   | 16 | 180525 FSM6 Report on Energy Efficiency Training Sessions Kosrae State  |
| 19180615 FMS6_Wash in School-Baseline Data_Kutu ES20180615 FMS6_Wash in School-Baseline Data_Lekinioch ES and Nomwonemu Jr21180615 FMS6_Wash in School-Baseline Data_Mortlocks HS23180615 FMS6_Wash in School-Baseline Data_Mortlocks HS24180615 FMS6_Wash in School-Baseline Data_Oneop ES24180615 FMS6_Wash in School-Baseline Data_Satowan ES25180701 FSM6&FSM7 Mission Report Water tanks + Net metering Chuuk26180724 FSM6 Selection of schools_Water Tanks_PPT27180806 FSM6 AC sticker (6cm x 20cm)28180806 FSM6 AC sticker (3cm x 10cm)29180806 FSM6 AC sticker (2.5cm x 10cm)29180806 FSM6 Request Letter of Extension_30 Sept. 2019_SPC31181115 FSM6_Kosrae Schools Energy Audit Final Report34181112 FSM6 FA 81207079 Addendum 133181112 FSM6 Gender Analysis36181120 FSM6 Gender Analysis37181231 FSM6 FREP Supply of EE Appliances_Kosrae Schools37181231 FSM6 Technical Report No. 438190116 FSM6 ICOA_EU GIZ ACSE_SPC_FSM R&D_Kosrae DOE39190131 FSM6 Technical Report No. 434181120 FSM6 Gender Analysis3518120 FSM6 Gender Analysis3618120 FSM6 Technical Report No. 438190114 FSM6 Contract Arington EE retrofit Palikir40190207 FSM6_Water tank Basements_RFP_SPC41190314 FSM6 Contract Arington EE retrofit Palikir43190314 FSM6 SchST - PSC Meeting Minute No.344190320 FSM6 LOA_SPC_FSM R&D_Chuk DOE Water tank Install  | 17 | 180601 FSM6 Palikir National Government EE appliances Inspection Report |
| 20180015 FMS_MON in School-Baseline Data_Lekinioch ES and Nomwonemu Jr21180615 FMS6_Wash in School-Baseline Data_Moch Community School22180615 FMS6_Wash in School-Baseline Data_Mortlocks HS23180615 FMS6_Wash in School-Baseline Data_Oneop ES24180615 FMS6_Wash in School-Baseline Data_Satowan ES25180701 FSM6&FSM7 Mission Report Water tanks + Net metering Chuuk26180724 FSM6 Selection of schools_Water Tanks_PPT27180806 FSM6 AC sticker (6cm x 20cm)28180806 FSM6 Technical Report No.330180829 FSM6&FSM7 - EU GIZ ACSE PSC Meeting Minute No. 231181008 FSM6 Request Letter of Extension_30 Sept. 2019_SPC32181112 FSM6 FSM2 - EU GIZ ACSE PSC Meeting Minute No. 231181115 FSM6_Kosrae Schools Energy Audit Final Report34181112 FSM6 Gender Analysis36181129 FSM6 Gender Analysis37181231 FSM6 Technical Report No. 438190116 FSM6 LOA_EU GIZ ACSE_SPC_FSM R&D_Kosrae DDE39190131 FSM6 Technical Report No. 438190116 FSM6 LOA_EU GIZ ACSE_SPC_FSM R&D_Kosrae DDE39190131 FSM6 Technical Report No. 434190120 FSM6_Water tank Basements_RFP_SPC41190314 FSM6 Contract Arington EE retrofit Palikir42190314 FSM6 Contract Arington EE retrofit Palikir43190314 FSM6 FSM7 - PSC Meeting Minute No.344190320 FSM6 LOA_SPC_FSM R&D_Chuk DDE Water tank Installation45190434 FSM6 FSM7 - PSC Meeting Minute No.344190304 FSM6 FSM7 - PSC Meeting Minute No.3 <td>18</td> <td>180615 FMS6_Wash in School-Baseline Data_Ettal ES</td> | 18 | 180615 FMS6_Wash in School-Baseline Data_Ettal ES                       |
| 21180615 FMS_TWAS_IN School Baceline Data_Lock Community School22180615 FMS6_Wash in School-Baseline Data_Mortlocks HS23180615 FMS6_Wash in School-Baseline Data_Oneop ES24180615 FMS6_Wash in School-Baseline Data_Satowan ES25180701 FSM6&FSM7 Mission Report Water tanks + Net metering Chuuk26180724 FSM6 Selection of schools_Water Tanks_PPT27180806 FSM6 AC sticker (6cm x 20cm)28180806 FSM6 Technical Report No.330180829 FSM6&FSM7 -EU GIZ ACSE PSC Meeting Minute No. 231181008 FSM6 Request Letter of Extension_30 Sept. 2019_SPC32181112 FSM6 FA 81207079 Addendum 133181115 FSM6_Kosrae Schools Energy Audit Final Report34181120 FSM6 Gender Analysis36181129 FSM6 Gender Analysis37181231 FSM6 Technical Report No. 438190116 FSM6 LOA_EU GIZ ACSE_SPC_FSM R&D_Kosrae DOE39190131 FSM6 Technical Report No. 434190116 FSM6 LOA_EU GIZ ACSE_SPC_FSM R&D_Kosrae DOE39190131 FSM6 Technical Report No. 438190116 FSM6 LOA_EU GIZ ACSE_SPC_FSM R&D_Kosrae DOE39190314 FSM6 Contract Arington EE retrofit Palikir41190314 FSM6 Contract Arington EE retrofit Palikir43190314 FSM6 Contract Arington EE retrofit Palikir44190320 FSM6 LOA_SPC_FSM R&D_Chuk DOE Water tank Installation45190608 FSM6 - Palikir Govt Building Installation Report47190608 FSM6 - Palikir Govt Building Installation Report  | 19 | 180615 FMS6_Wash in School-Baseline Data_Kuttu ES                       |
| 22180615 FMS6_Wash in School-Baseline Data_Mortlocks HS23180615 FMS6_Wash in School-Baseline Data_Oneop ES24180615 FMS6_Wash in School-Baseline Data_Satowan ES25180701 FSM6&FSM7 Mission Report Water tanks + Net metering Chuuk26180724 FSM6 Selection of schools_Water Tanks_PPT27180806 FSM6 AC sticker (6cm x 20cm)28180806 FSM6 Switch Sticker (2.5cm x 10cm)29180806 FSM6 Technical Report No.330180829 FSM6&FSM7 -EU GIZ ACSE PSC Meeting Minute No. 231181008 FSM6 Request Letter of Extension_30 Sept. 2019_SPC32181112 FSM6 FA 81207079 Addendum 133181115 FSM6_Kosrae Schools Energy Audit Final Report34181120 FSM6 Gender Analysis36181129 FSM6 Gender Analysis37181231 FSM6 Technical Report No. 438190116 FSM 6LOA _EU GIZ ACSE_SPC_FSM R&D_Kosrae DOE39190131 FSM6 Technical Report No. 434190116 FSM 6LOA _EU GIZ ACSE_SPC_FSM R&D_Kosrae DOE39190131 FSM6 Contract Arington EE retrofit Palikir41190314 FSM6 Contract Arington EE retrofit Palikir42190314 FSM6 Contract Arington EE retrofit Palikir43190314 FSM6_SFM7 -PSC Meeting Minute No.344190320 FSM6 LOA_SPC_FSM R&D_Chuk DOE Water tank Installation45190405 FSM6 -Palikir Govt Building Installation Report47190630 FSM6 -Palikir Govt Building Installation Report   | 20 | 180615 FMS6_Wash in School-Baseline Data_Lekinioch ES and Nomwonemu Jr  |
| 23180615 FMS6_Wash in School-Baseline Data_Oneop ES24180615 FMS6_Wash in School-Baseline Data_Satowan ES25180701 FSM6&FSM7 Mission Report Water tanks + Net metering Chuuk26180724 FSM6 Selection of schools_Water Tanks_PPT27180806 FSM6 AC sticker (6cm x 20cm)28180806 FSM6 Switch Sticker (2.5cm x 10cm)29180806 FSM6 Technical Report No.330180829 FSM6&FSM7 -EU GIZ ACSE PSC Meeting Minute No. 231181008 FSM6 Request Letter of Extension_30 Sept. 2019_SPC32181112 FSM6 FA 81207079 Addendum 133181115 FSM6_Kosrae Schools Energy Audit Final Report34181120 FSM6 Gender Analysis35181120 FSM6 Gender Analysis36181129 FSM6 RFP Supply of EE Appliances_Kosrae Schools37181231 FSM6 Technical Report No. 438190116 FSM6 LOA_EU GIZ ACSE_SPC_FSM R&D_Kosrae DOE39190131 FSM6 Technical Report Kosrae Schools EE Appliances40190207 FSM6_Water tank Basements_RFP_SPC41190314 FSM6 Contract Arington EE retrofit Palikir43190314 FSM6 Contract Arington EE retrofit Palikir44190320 FSM6 LOA_SPC_FSM R&D_Chuk DOE Water tank Installation45190415 FSM6_RFP Supply and Delivery_Rainwater Tanks &<br>Materials_Appurtenances46190608 FSM6 - Palikir Govt Building Installation Report47190630 FSM6 FSM7 - PSC Meeting Minute No. 5   | 21 | 180615 FMS6_Wash in School-Baseline Data_Moch Community School          |
| 24180615 FMS6_Wash in School-Baseline Data_Satowan ES25180701 FSM6&FSM7 Mission Report Water tanks + Net metering Chuuk26180724 FSM6 Selection of schools_Water Tanks_PPT27180806 FSM6 AC sticker (6cm x 20cm)28180806 FSM6 Switch Sticker (2.5cm x 10cm)29180806 FSM6 Request Letter of Extension_30 Sept. 2019_SPC30180829 FSM6&FSM7 -EU GIZ ACSE PSC Meeting Minute No. 231181108 FSM6 Request Letter of Extension_30 Sept. 2019_SPC32181112 FSM6 FA 81207079 Addendum 133181115 FSM6_Kosrae Schools Energy Audit Final Report34181120 FSM6 Gender Analysis36181129 FSM6 RFP Supply of EE Appliances _Kosrae Schools37181231 FSM6 Technical Report No. 438190116 FSM6 LOA _EU GIZ ACSE_SPC_FSM R&D _Kosrae DOE39190131 FSM6 Technical Report No. 434190207 FSM6_Water tank Basements_RFP_SPC41190314 FSM6 Contract Arington EE retrofit Palikir42190314 FSM6 Contract Arington EE retrofit Palikir43190314 FSM6 Contract Arington EE retrofit Palikir44190320 FSM6_LOA_SPC_FSM R&D_Chuk DOE Water tank Installation45190415 FSM6_RFP Supply and Delivery _Rainwater Tanks &<br>Materials_Appurtenances46190608 FSM6 - Palikir Govt Building Installation Report47190630 FSM6 - Palikir Govt Building Installation Report   | 22 | 180615 FMS6_Wash in School-Baseline Data_Mortlocks HS                   |
| 25180701 FSM6&FSM7 Mission Report Water tanks + Net metering Chuuk26180724 FSM6 Selection of schools_Water Tanks_PPT27180806 FSM6 AC sticker (6cm x 20cm)28180806 FSM6 Switch Sticker (2.5cm x 10cm)29180806 FSM6 Request Letter of Extension_30 Sept. 2019_SPC30180829 FSM6&FSM7 -EU GIZ ACSE PSC Meeting Minute No. 231181108 FSM6 Request Letter of Extension_30 Sept. 2019_SPC32181112 FSM6 FA 81207079 Addendum 133181115 FSM6_Kosrae Schools Energy Audit Final Report34181120 FSM6 Gender Analysis36181129 FSM6 Gender Analysis37181231 FSM6 Technical Report No. 438190116 FSM6 LOA_EU GIZ ACSE_SPC_FSM R&D_Kosrae DOE39190131 FSM6 Technical Evaluation Report Kosrae Schools EE Appliances40190207 FSM6_Water tank Basements_RFP_SPC41190314 FSM6 Contract Arington EE retrofit Palikir42190314 FSM6 Contract Arington EE retrofit Palikir43190314 FSM6 Contract Arington EE retrofit Palikir44190320 FSM6_LOA_SPC_FSM R&D_Chuk DOE Water tank Installation45190415 FSM6_RFP Supply and Delivery_Rainwater Tanks &<br>Materials_Appurtenances46190608 FSM7 - Palikir Govt Building Installation Report47190630 FSM6 Technical Report No. 5  | 23 | 180615 FMS6_Wash in School-Baseline Data_Oneop ES                       |
| 26180724 FSM6 Selection of schools_Water Tanks_PPT27180806 FSM6 AC sticker (6cm x 20cm)28180806 FSM6 AC sticker (2.5cm x 10cm)29180806 FSM6 Technical Report No.330180829 FSM6&FSM7 -EU GIZ ACSE PSC Meeting Minute No. 231181008 FSM6 Request Letter of Extension_30 Sept. 2019_SPC32181112 FSM6 FA 81207079 Addendum 133181115 FSM6_Kosrae Schools Energy Audit Final Report34181120 FSM6 Gender Analysis36181129 FSM6 Gender Analysis37181231 FSM6 Technical Report No. 438190116 FSM6 IOA_EU GIZ ACSE_SPC_FSM R&D_Kosrae DOE39190131 FSM6 Technical Evaluation Report Kosrae Schools EE Appliances40190207 FSM6_Water tank Basements_RFP_SPC41190314 FSM6 Contract Arington EE retrofit Palikir42190314 FSM6 Contract Benster EE retrofit Palikir43190314 FSM6 Contract Benster EE retrofit Palikir44190320 FSM6_RPP Supply and Delivery_Rainwater Tanks &<br>Materials_Appurtenances46190608 FSM6 - Palikir Govt Building Installation Report47190630 FSM6 Technical Report No. 5  | 24 | 180615 FMS6_Wash in School-Baseline Data_Satowan ES                     |
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| 180000 FSM6 Xe Steker (cent x 200m)28180806 FSM6 Switch Sticker (2.5cm x 10cm)29180806 FSM6 Technical Report No.330180829 FSM6&FSM7 -EU GIZ ACSE PSC Meeting Minute No. 231181008 FSM6 Request Letter of Extension_30 Sept. 2019_SPC32181112 FSM6 FA 81207079 Addendum 133181115 FSM6_Kosrae Schools Energy Audit Final Report34181120 FSM6 -Water Tank Capacity Assessment_Mortlocks_Chuuk State35181120 FSM6 Gender Analysis36181129 FSM6 RFP Supply of EE Appliances_Kosrae Schools37181231 FSM6 Technical Report No. 438190116 FSM6 LOA_EU GIZ ACSE_SPC_FSM R&D_Kosrae DOE39190131 FSM6 Technical Evaluation Report Kosrae Schools EE Appliances40190207 FSM6_Water tank Basements_RFP_SPC41190314 FSM6 Contract Arington EE retrofit Palikir42190314 FSM6 Contract Arington EE retrofit Palikir43190314 FSM6_KFSM7 - PSC Meeting Minute No.344190320 FSM6 LOA_SPC_FSM R&D_Chuk DOE Water tank Installation45190608 FSM6 - Palikir Govt Building Installation Report47190630 FSM6 Technical Report No. 5  | 26 | 180724 FSM6 Selection of schools_Water Tanks_PPT                        |
| 29180806 FSM6 Technical Report No.330180829 FSM6&FSM7 -EU GIZ ACSE PSC Meeting Minute No. 231181008 FSM6 Request Letter of Extension_30 Sept. 2019_SPC32181112 FSM6 FA 81207079 Addendum 133181115 FSM6 _Kosrae Schools Energy Audit Final Report34181120 FSM6 -Water Tank Capacity Assessment_Mortlocks_Chuuk State35181120 FSM6 Gender Analysis36181129 FSM6 RFP Supply of EE Appliances_Kosrae Schools37181231 FSM6 Technical Report No. 438190116 FSM6 LOA_EU GIZ ACSE_SPC_FSM R&D_Kosrae DOE39190131 FSM6 Technical Evaluation Report Kosrae Schools EE Appliances40190207 FSM6_Water tank Basements_RFP_SPC41190314 FSM6 Contract Arington EE retrofit Palikir43190314 FSM6 Kosrae Bentry Minute No.344190320 FSM6 LOA_SPC_FSM R&D_Chuk DOE Water tank Installation45190608 FSM6 - Palikir Govt Building Installation Report47190600 FSM6 Technical Report No. 5  | 27 | 180806 FSM6 AC sticker (6cm x 20cm)                                     |
| 30180809 FSM6 Request Letter of Extension_30 Sept. 2019_SPC31181008 FSM6 Request Letter of Extension_30 Sept. 2019_SPC32181112 FSM6 FA 81207079 Addendum 133181115 FSM6 _Kosrae Schools Energy Audit Final Report34181120 FSM6 -Water Tank Capacity Assessment_Mortlocks_Chuuk State35181120 FSM6 Gender Analysis36181129 FSM6 RFP Supply of EE Appliances_Kosrae Schools37181231 FSM6 Technical Report No. 438190116 FSM6 LOA_EU GIZ ACSE_SPC_FSM R&D_Kosrae DOE39190131 FSM6 Technical Evaluation Report Kosrae Schools EE Appliances40190207 FSM6_Water tank Basements_RFP_SPC41190314 FSM6 Contract Arington EE retrofit Palikir42190314 FSM6 Contract Benster EE retrofit Palikir43190314 FSM6_KFP Supply and Delivery_Rainwater Tanks &<br>Materials_Appurtenances46190608 FSM6 - Palikir Govt Building Installation Report47190630 FSM6 Technical Report No. 5   | 28 | 180806 FSM6 Switch Sticker (2.5cm x 10cm)                               |
| 3118002 FSM6 Request Letter of Extension_30 Sept. 2019_SPC32181112 FSM6 FA 81207079 Addendum 133181115 FSM6_Kosrae Schools Energy Audit Final Report34181120 FSM6 -Water Tank Capacity Assessment_Mortlocks_Chuuk State35181120 FSM6 Gender Analysis36181129 FSM6 RFP Supply of EE Appliances_Kosrae Schools37181231 FSM6 Technical Report No. 438190116 FSM6 LOA_EU GIZ ACSE_SPC_FSM R&D_Kosrae DOE39190131 FSM6 Technical Report Kosrae Schools EE Appliances40190207 FSM6_Water tank Basements_RFP_SPC41190314 FSM6 Contract Arington EE retrofit Palikir42190314 FSM6 Contract Benster EE retrofit Palikir43190314 FSM6_KFSM7 - PSC Meeting Minute No.344190320 FSM6 LOA_SPC_FSM R&D_Chuk DOE Water tank Installation45190608 FSM6 - Palikir Govt Building Installation Report47190630 FSM6 Technical Report No. 5  | 29 | 180806 FSM6 Technical Report No.3                                       |
| 32181102 FSM6 FA 81207079 Addendum 133181112 FSM6 FA 81207079 Addendum 134181115 FSM6 _Kosrae Schools Energy Audit Final Report34181120 FSM6 -Water Tank Capacity Assessment_ Mortlocks _ Chuuk State35181120 FSM6 Gender Analysis36181129 FSM6 RFP Supply of EE Appliances _ Kosrae Schools37181231 FSM6 Technical Report No. 438190116 FSM6 LOA _ EU GIZ ACSE_SPC_FSM R&D _ Kosrae DOE39190131 FSM6 Technical Evaluation Report Kosrae Schools EE Appliances40190207 FSM6_Water tank Basements_RFP_SPC41190314 FSM6 Contract Arington EE retrofit Palikir42190314 FSM6 Contract Benster EE retrofit Palikir43190314 FSM6 LOA_SPC_FSM R&D_Chuk DOE Water tank Installation45190415 FSM6_RFP Supply and Delivery_Rainwater Tanks &<br>Materials_Appurtenances46190608 FSM6 - Palikir Govt Building Installation Report47190630 FSM6 Technical Report No. 5  | 30 | 180829 FSM6&FSM7 -EU GIZ ACSE PSC Meeting Minute No. 2                  |
| 33181111 FSM6 FK0120101 Finderholm 133181115 FSM6 _Kosrae Schools Energy Audit Final Report34181120 FSM6 -Water Tank Capacity Assessment_ Mortlocks _ Chuuk State35181120 FSM6 Gender Analysis36181129 FSM6 Gender Analysis37181231 FSM6 Technical Report No. 438190116 FSM6 LOA _ EU GIZ ACSE_SPC_FSM R&D _ Kosrae DOE39190131 FSM6 Technical Evaluation Report Kosrae Schools EE Appliances40190207 FSM6_Water tank Basements_RFP_SPC41190314 FSM6 Contract Arington EE retrofit Palikir42190314 FSM6 Contract Benster EE retrofit Palikir43190314 FSM6 LOA_SPC_FSM R&D_Chuk DOE Water tank Installation44190320 FSM6_LOA_SPC_FSM R&D_Chuk DOE Water tank Installation45190415 FSM6_RFP Supply and Delivery_Rainwater Tanks &<br>Materials_Appurtenances46190608 FSM6 - Palikir Govt Building Installation Report47190630 FSM6 Technical Report No. 5   | 31 | 181008 FSM6 Request Letter of Extension_30 Sept. 2019_SPC               |
| 34181120 FSM6 -Water Tank Capacity Assessment_Mortlocks _ Chuuk State35181120 FSM6 Gender Analysis36181129 FSM6 RFP Supply of EE Appliances _ Kosrae Schools37181231 FSM6 Technical Report No. 438190116 FSM6 LOA _ EU GIZ ACSE_SPC_FSM R&D _ Kosrae DOE39190131 FSM6 Technical Evaluation Report Kosrae Schools EE Appliances40190207 FSM6_Water tank Basements_RFP_SPC41190314 FSM6 Contract Arington EE retrofit Palikir42190314 FSM6 Contract Benster EE retrofit Palikir43190314 FSM6&FSM7 - PSC Meeting Minute No.344190320 FSM6_LOA_SPC_FSM R&D_ Chuk DOE Water tank Installation45190415 FSM6_RFP Supply and Delivery _Rainwater Tanks &<br>Materials_Appurtenances46190608 FSM6 - Palikir Govt Building Installation Report47190630 FSM6 Technical Report No. 5  | 32 | 181112 FSM6 FA 81207079 Addendum 1                                      |
| 35181120 FSM6 Gender Analysis36181129 FSM6 RFP Supply of EE Appliances _ Kosrae Schools37181231 FSM6 Technical Report No. 438190116 FSM6 LOA _ EU GIZ ACSE_SPC_FSM R&D _ Kosrae DOE39190131 FSM6 Technical Evaluation Report Kosrae Schools EE Appliances40190207 FSM6_Water tank Basements_RFP_SPC41190314 FSM6 Contract Arington EE retrofit Palikir42190314 FSM6 Contract Benster EE retrofit Palikir43190314 FSM6 LOA_SPC_FSM R&D_Chuk DOE Water tank Installation44190320 FSM6 LOA_SPC_FSM R&D_Chuk DOE Water tank Installation45190415 FSM6_RFP Supply and Delivery_Rainwater Tanks &<br>Materials_Appurtenances46190608 FSM6 - Palikir Govt Building Installation Report47190630 FSM6 Technical Report No. 5   | 33 | 181115 FSM6 _Kosrae Schools Energy Audit Final Report                   |
| 36181129 FSM6 RFP Supply of EE Appliances _ Kosrae Schools37181231 FSM6 Technical Report No. 438190116 FSM6 LOA _ EU GIZ ACSE_SPC_FSM R&D _ Kosrae DOE39190131 FSM6 Technical Evaluation Report Kosrae Schools EE Appliances40190207 FSM6_Water tank Basements_RFP_SPC41190314 FSM6 Contract Arington EE retrofit Palikir42190314 FSM6 Contract Benster EE retrofit Palikir43190314 FSM6 Contract Benster EE retrofit Palikir44190320 FSM6_LOA_SPC_FSM R&D_ Chuk DOE Water tank Installation45190415 FSM6_RFP Supply and Delivery_Rainwater Tanks &<br>Materials_Appurtenances46190608 FSM6 - Palikir Govt Building Installation Report47190630 FSM6 Technical Report No. 5   | 34 | 181120 FSM6 -Water Tank Capacity Assessment_ Mortlocks _ Chuuk State    |
| 37181231 FSM6 Technical Report No. 438190116 FSM6 LOA _ EU GIZ ACSE_SPC_FSM R&D _ Kosrae DOE39190131 FSM6 Technical Evaluation Report Kosrae Schools EE Appliances40190207 FSM6_Water tank Basements_RFP_SPC41190314 FSM6 Contract Arington EE retrofit Palikir42190314 FSM6 Contract Benster EE retrofit Palikir43190314 FSM6&Contract Benster EE retrofit Palikir44190320 FSM6_LOA_SPC_FSM R&D_Chuk DOE Water tank Installation45190415 FSM6_RFP Supply and Delivery_Rainwater Tanks &<br>Materials_Appurtenances46190608 FSM6 - Palikir Govt Building Installation Report47190630 FSM6 Technical Report No. 5  |    | 181120 FSM6 Gender Analysis   |
| 38190116 FSM6 LOA _ EU GIZ ACSE_SPC_FSM R&D _ Kosrae DOE39190131 FSM6 Technical Evaluation Report Kosrae Schools EE Appliances40190207 FSM6_Water tank Basements_RFP_SPC41190314 FSM6 Contract Arington EE retrofit Palikir42190314 FSM6 Contract Benster EE retrofit Palikir43190314 FSM6 Contract Benster EE retrofit Palikir44190320 FSM6_LOA_SPC_FSM R&D_Chuk DOE Water tank Installation45190415 FSM6_RFP Supply and Delivery_Rainwater Tanks &<br>Materials_Appurtenances46190608 FSM6 - Palikir Govt Building Installation Report47190630 FSM6 Technical Report No. 5  | 36 | 181129 FSM6 RFP Supply of EE Appliances _ Kosrae Schools                |
| 39190110 FSM6 Technical Evaluation Report Kosrae Schools EE Appliances40190207 FSM6_Water tank Basements_RFP_SPC41190314 FSM6 Contract Arington EE retrofit Palikir42190314 FSM6 Contract Benster EE retrofit Palikir43190314 FSM6 Contract Benster EE retrofit Palikir44190320 FSM6_LOA_SPC_FSM R&D_Chuk DOE Water tank Installation45190415 FSM6_RFP Supply and Delivery_Rainwater Tanks &<br>Materials_Appurtenances46190608 FSM6 - Palikir Govt Building Installation Report47190630 FSM6 Technical Report No. 5  | 37 | 181231 FSM6 Technical Report No. 4                                      |
| 40190207 FSM6_Water tank Basements_RFP_SPC41190314 FSM6 Contract Arington EE retrofit Palikir42190314 FSM6 Contract Benster EE retrofit Palikir43190314 FSM6&Contract Benster EE retrofit Palikir44190320 FSM6 LOA_SPC_FSM R&D_Chuk DOE Water tank Installation45190415 FSM6_RFP Supply and Delivery_Rainwater Tanks &<br>Materials_Appurtenances46190608 FSM6 - Palikir Govt Building Installation Report47190630 FSM6 Technical Report No. 5  | 38 | 190116 FSM6 LOA _ EU GIZ ACSE_SPC_FSM R&D _ Kosrae DOE                  |
| 41190314 FSM6 Contract Arington EE retrofit Palikir42190314 FSM6 Contract Benster EE retrofit Palikir43190314 FSM6&FSM7 - PSC Meeting Minute No.344190320 FSM6 LOA_SPC_FSM R&D_ Chuk DOE Water tank Installation45190415 FSM6_RFP Supply and Delivery _Rainwater Tanks &<br>Materials_Appurtenances46190608 FSM6 - Palikir Govt Building Installation Report47190630 FSM6 Technical Report No. 5  | 39 | 190131 FSM6 Technical Evaluation Report Kosrae Schools EE Appliances    |
| 42       190314 FSM6 Contract Benster EE retrofit Palikir         43       190314 FSM6&FSM7 - PSC Meeting Minute No.3         44       190320 FSM6 LOA_SPC_FSM R&D_Chuk DOE Water tank Installation         45       190415 FSM6_RFP Supply and Delivery _Rainwater Tanks &<br>Materials_Appurtenances         46       190608 FSM6 - Palikir Govt Building Installation Report         47       190630 FSM6 Technical Report No. 5   | 40 | 190207 FSM6_Water tank Basements_RFP_SPC                                |
| 43       190314 FSM6&FSM7 - PSC Meeting Minute No.3         44       190320 FSM6 LOA_SPC_FSM R&D_Chuk DOE Water tank Installation         45       190415 FSM6_RFP Supply and Delivery _Rainwater Tanks & Materials_Appurtenances         46       190608 FSM6 - Palikir Govt Building Installation Report         47       190630 FSM6 Technical Report No. 5  | 41 | 190314 FSM6 Contract Arington EE retrofit Palikir                       |
| 44       190320 FSM6 LOA_SPC_FSM R&D_Chuk DOE Water tank Installation         45       190415 FSM6_RFP Supply and Delivery _Rainwater Tanks &<br>Materials_Appurtenances         46       190608 FSM6 - Palikir Govt Building Installation Report         47       190630 FSM6 Technical Report No. 5   | 42 | 190314 FSM6 Contract Benster EE retrofit Palikir                        |
| 45       190415 FSM6_RFP Supply and Delivery _Rainwater Tanks & Materials_Appurtenances         46       190608 FSM6 - Palikir Govt Building Installation Report         47       190630 FSM6 Technical Report No. 5  | 43 | 190314 FSM6&FSM7 - PSC Meeting Minute No.3                              |
| Materials_Appurtenances         46       190608 FSM6 - Palikir Govt Building Installation Report         47       190630 FSM6 Technical Report No. 5  |    |   |
| 47 190630 FSM6 Technical Report No. 5   | 45 |   |
|   | 46 | 190608 FSM6 - Palikir Govt Building Installation Report                 |
| 48 190911 FSM6 Inspection Report _EE appliances retrofit Kosrae Schools   | 47 | 190630 FSM6 Technical Report No. 5                                      |
|   | 48 | 190911 FSM6 Inspection Report _EE appliances retrofit Kosrae Schools    |

| 49              | 191120 FSM6 tor Water tanks and Accessories Delivery Report _Chuuk DOE                  |
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| <mark>50</mark> | 190731 FSM6 - Request Letter of Extension _31 Dec. 2019_SPC                             |
| 51              | 191202 FSM6 _FA 81207079 _Addendum 3  |
| 52              | 191212 FSM6&FSM7 PSC Meeting Minutes No. 4  |
| 53              | 191204 FSM6 -Request Letter of Extension_SPC_30 Apr. 2020_SPC                           |
| 54              | 200315 FSM6_ EE Kosrae School contract CPS 20-117 Lugo R Skilling                       |
| 55              | 200415 FSM6 Installation Report _EE appliances retrofit Kosrae Schools                  |
| 56              | 200430 FSM6 Energy Efficiency Guide for FSM Schools and Domestic Households             |
| 57              | 200520 FSM6 Technical Progress Report No.6  |
| 58              | 200618 FSM6 Palikir Government Building Additional AC unit Inspection Report            |
| 59              | 200621 FSM6 Final Project Evaluation Report   |
| 60              | 200630 FSM6 Inspection Report _Water tanks Installation_ Lower Mortlock Schools _ Chuuk |
| 61              | 200520 FSM6 Final Evaluation Report   |
| 62              | 200520 FSM6 Final Project Report ( this report)   |
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