



SUSTAINABLE ENERGY DEVELOPMENT AND ACCESS PROJECT (P165183)

EAST ASIA AND PACIFIC | Micronesia, Federated States of | Energy & Extractives Global Practice |
IBRD/IDA | Investment Project Financing | FY 2019 | Seq No: 8 | ARCHIVED on 22-Dec-2022 | ISR54531 |

Implementing Agencies: Centralized Implementation Unit (CIU), Chuuk Public Utility Corporation (CPUC), Department of Finance and Administration (DoFA), Department of Resources and Development (DR&D), Federated States of Micronesia, Kosrae Utilities Authority (KUA), Pohnpei Utility Corporation (PUC), Yap State Public Service Corporation (YSPSC)

Key Dates

Key Project Dates

Bank Approval Date: 06-Dec-2018

Effectiveness Date: 08-Apr-2019

Planned Mid Term Review Date: 05-Jan-2023

Actual Mid-Term Review Date:

Original Closing Date: 30-Nov-2023

Revised Closing Date: 30-Nov-2023

Project Development Objectives

Project Development Objective (from Project Appraisal Document)

To improve reliability of electricity supply, expand access to electricity, and scale up renewable energy generation.

Has the Project Development Objective been changed since Board Approval of the Project Objective?

No

Components Table

Name

Improving Reliability of Electricity Supply in Pohnpei State:(Cost \$11.80 M)
Expanding Access to Electricity in Chuuk State:(Cost \$3.45 M)
Scaling up Renewable Energy Generation in Chuuk, Yap and Kosrae States:(Cost \$9.90 M)
Institutional Strengthening and Capacity Building in the Energy Sector:(Cost \$1.90 M)
Technical Assistance and Project Management:(Cost \$2.95 M)

Overall Ratings

| Name | Previous Rating | Current Rating |
|--------------------------------------|--|--|
| Progress towards achievement of PDO | <input type="checkbox"/> Moderately Satisfactory | <input type="checkbox"/> Moderately Satisfactory |
| Overall Implementation Progress (IP) | <input type="checkbox"/> Moderately Satisfactory | <input type="checkbox"/> Moderately Satisfactory |
| Overall Risk Rating | <input type="checkbox"/> Substantial | <input type="checkbox"/> Substantial |

Implementation Status and Key Decisions

The Sustainable Energy Development and Access Project became effective on April 08, 2019. The project development objective (PDO) is to improve reliability of electricity supply, expand access to electricity, and scale up renewable energy generation. The project implementation has been delayed by the COVID 19 pandemic. With the reopening of FSM borders, the pace of implementation improved. Procurement for (i) the supply and installation of diesel generators for the Pohnpei Utility Corporation, and (2) the supply and installation of battery storage for the Kosrae Utilities Authority progressed to negotiation stage. Requests for bids were advertised to select contractors for the design, supply, and construction of renewable mini-grids in the islands of Satowan and Udot in Chuuk State. A 830 kW diesel generator was delivered to Yap State Public Service Corporation.



Risks

Systematic Operations Risk-rating Tool

| Risk Category | Rating at Approval | Previous Rating | Current Rating |
|--|--------------------|-----------------|----------------|
| Political and Governance | ☐ Substantial | ☐ Moderate | ☐ Moderate |
| Macroeconomic | ☐ Moderate | ☐ Moderate | ☐ Moderate |
| Sector Strategies and Policies | ☐ Substantial | ☐ Substantial | ☐ Substantial |
| Technical Design of Project or Program | ☐ Substantial | ☐ Substantial | ☐ Substantial |
| Institutional Capacity for Implementation and Sustainability | ☐ High | ☐ Substantial | ☐ Substantial |
| Fiduciary | ☐ Substantial | ☐ Substantial | ☐ Substantial |
| Environment and Social | ☐ Moderate | ☐ Moderate | ☐ Moderate |
| Stakeholders | ☐ Moderate | ☐ Moderate | ☐ Moderate |
| Other | -- | ☐ Substantial | ☐ Substantial |
| Overall | ☐ Substantial | ☐ Substantial | ☐ Substantial |

Results

PDO Indicators by Objectives / Outcomes

| Improving Reliability of Electricity Supply in Pohnpei State | | | | |
|--|---|-------------------|------------------|-------------|
| ▶ PUC System Average Interruption Duration Index (SAIDI) (Minutes, Custom) | | | | |
| | Baseline | Actual (Previous) | Actual (Current) | End Target |
| Value | 4,000.00 | 4,000.00 | 3,500.00 | 1,000.00 |
| Date | 19-Nov-2018 | 19-May-2022 | 30-Nov-2022 | 30-Nov-2023 |
| Comments: | The project provided PUC with a truck that is being used to prune trees whose branches used to fall on distribution lines causing power outages. This project-enabled activity contributes to reduce power outages. | | | |

| Expanding Access to Electricity in Chuuk State | |
|---|--|
| ▶ People newly provided with access to electricity under the project by household connections Grid/Off-grid/mini-grid in Chuuk (Number, Custom) | |
| | |



| | Baseline | Actual (Previous) | Actual (Current) | End Target |
|-----------|---|-------------------|------------------|-------------|
| Value | 0.00 | 0.00 | 0.00 | 1,898.00 |
| Date | 30-Nov-2018 | 19-May-2022 | 30-Nov-2022 | 30-Nov-2023 |
| Comments: | The request for bids was advertised to select contractors to design and construct the mini grids. | | | |

| Scaling up Renewable Energy Generation in Chuuk, Yap and Kosrae States | | | | |
|--|--|-------------------|------------------|-------------|
| ▶ Annual Generation Output of Renewable Energy (other than hydropower) in Chuuk, Yap and Kosrae (Megawatt hour(MWh), Custom) | | | | |
| | Baseline | Actual (Previous) | Actual (Current) | End Target |
| Value | 1,930.00 | 1,930.00 | 1,930.00 | 4,270.00 |
| Date | 30-Nov-2018 | 19-May-2022 | 30-Nov-2022 | 30-Nov-2023 |
| Comments: | Procurement is still underway to select contractors to construct the mini grids. | | | |

Intermediate Results Indicators by Components

| Component 1: Improving Reliability of Electricity Supply in Pohnpei State | | | | |
|--|-------------|-------------------|------------------|-------------|
| ▶ Generation capacity of energy constructed or rehabilitated (Megawatt, Corporate) | | | | |
| | Baseline | Actual (Previous) | Actual (Current) | End Target |
| Value | 0.00 | 0.00 | 0.00 | 7.50 |
| Date | 30-Nov-2018 | 19-May-2022 | 19-May-2022 | 30-Nov-2023 |
| □ Thermal (conventional) power generation capacity constructed under the project (Megawatt, Corporate Breakdown) | | | | |
| | Baseline | Actual (Previous) | Actual (Current) | End Target |
| Value | 0.00 | 0.00 | 0.83 | 7.50 |
| Date | 30-Nov-2018 | 19-May-2022 | 30-Nov-2022 | 30-Nov-2023 |

| Component 2: Expanding Access to Electricity in Chuuk State | | | | |
|---|----------|-------------------|------------------|------------|
| ▶ Number of households receiving new connections (Number, Custom) | | | | |
| | Baseline | Actual (Previous) | Actual (Current) | End Target |
| Value | 0.00 | 0.00 | 0.00 | 272.00 |



| | | | | |
|-----------|--|-------------|-------------|-------------|
| Date | 30-Nov-2018 | 19-May-2022 | 30-Nov-2022 | 30-Nov-2023 |
| Comments: | Two requests for bids were advertised to select contractors to construct the mini grids. | | | |

Component 3: Scaling up Renewable Energy Generation in Chuuk, Yap and Kosrae States

► Battery Storage Capacity in Kosrae (Megawatt hour(MWh), Custom)

| | Baseline | Actual (Previous) | Actual (Current) | End Target |
|-----------|---|-------------------|------------------|-------------|
| Value | 0.00 | 0.00 | 0.00 | 1.00 |
| Date | 19-Nov-2018 | 19-May-2022 | 30-Nov-2022 | 30-Nov-2023 |
| Comments: | A contract is expected to be signed by February 1, 2023, to supply the battery energy storage system. | | | |

► Generation capacity of energy constructed or rehabilitated (Megawatt, Corporate)

| | Baseline | Actual (Previous) | Actual (Current) | End Target |
|-------|-------------|-------------------|------------------|-------------|
| Value | 0.00 | 0.00 | 0.83 | 2.83 |
| Date | 30-Nov-2018 | 19-May-2022 | 30-Nov-2022 | 30-Nov-2023 |

Thermal (conventional) power generation capacity constructed under the project (Megawatt, Corporate Breakdown)

| | Baseline | Actual (Previous) | Actual (Current) | End Target |
|-------|-------------|-------------------|------------------|-------------|
| Value | 0.00 | 0.83 | 0.83 | 0.83 |
| Date | 30-Nov-2018 | 19-May-2022 | 30-Nov-2022 | 30-Nov-2023 |

Renewable energy generation capacity (other than hydropower) constructed under the project (Megawatt, Corporate Breakdown)

| | Baseline | Actual (Previous) | Actual (Current) | End Target |
|-------|-------------|-------------------|------------------|-------------|
| Value | 0.00 | 0.00 | 0.00 | 2.00 |
| Date | 30-Nov-2018 | 19-May-2022 | 30-Nov-2022 | 30-Nov-2023 |

Component 4: Institutional Strengthening and Capacity Building in the Energy Sector

► Clean Cooking Assessment available, which consider women's health benefits and employment opportunities (Yes/No, Custom)

| | Baseline | Actual (Previous) | Actual (Current) | End Target |
|-----------|---|-------------------|------------------|-------------|
| Value | No | No | No | Yes |
| Date | 19-Nov-2018 | 19-May-2022 | 30-Nov-2022 | 30-Nov-2023 |
| Comments: | The PIU is evaluating proposals to select an ONG to undertake the clean cooking assessment. | | | |



| ► Number of women employed by CPUC and PUC in technical roles in the power sector (Number, Custom) | | | | |
|--|--|-------------------|------------------|-------------|
| | Baseline | Actual (Previous) | Actual (Current) | End Target |
| Value | 0.00 | 0.00 | 1.00 | 4.00 |
| Date | 30-Nov-2018 | 19-May-2022 | 30-Nov-2022 | 30-Nov-2023 |
| Comments: | The PIU hired, in September 2022, a female staff for the position of project implementation officer. | | | |
| ► Performance contract in effect for PUC (Yes/No, Custom) | | | | |
| | Baseline | Actual (Previous) | Actual (Current) | End Target |
| Value | No | No | No | Yes |
| Date | 30-Nov-2018 | 19-May-2022 | 30-Nov-2022 | 30-Nov-2023 |
| Comments: | The performance contract was drafted and is being revised. | | | |

| Component 5: Technical Assistance and Project Management | | | | |
|--|---|-------------------|------------------|-------------|
| ► Project-supported organization(s) publishing periodic reports on GRM and how issues were resolved [including resolution rates] (Yes/No) (Yes/No, Custom) | | | | |
| | Baseline | Actual (Previous) | Actual (Current) | End Target |
| Value | No | No | No | Yes |
| Date | 19-Nov-2018 | 19-May-2022 | 30-Nov-2022 | 30-Nov-2023 |
| Comments: | The Department of Finance and Administration's website includes an online GRM webpages that the CIU safeguards advisors are updating. | | | |

Performance-Based Conditions

Data on Financial Performance

Disbursements (by loan)

| Project | Loan/Credit/TF | Status | Currency | Original | Revised | Cancelled | Disbursed | Undisbursed | % Disbursed |
|---------|----------------|-----------|----------|----------|---------|-----------|-----------|-------------|-------------|
| P165183 | IDA-D3970 | Effective | USD | 30.00 | 30.00 | 0.00 | 3.85 | 24.03 | 14% |

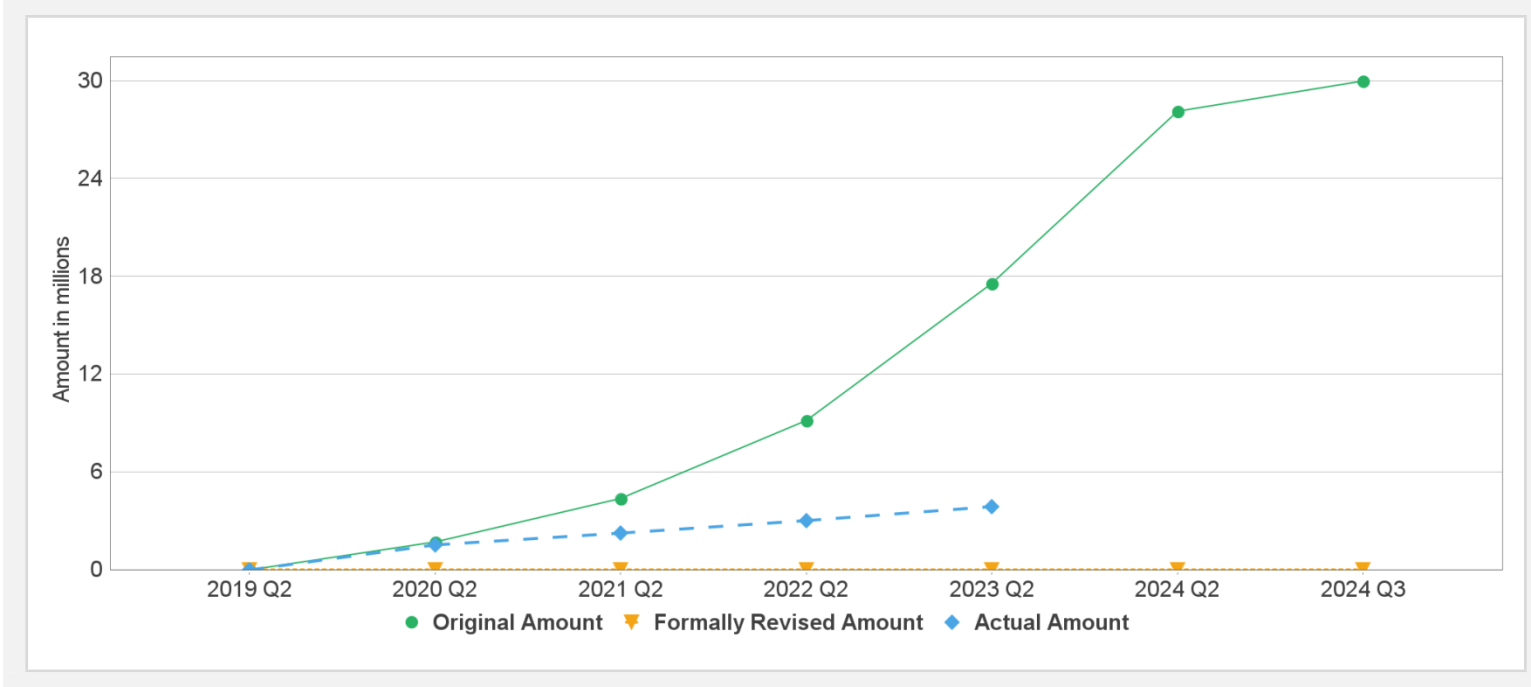
Key Dates (by loan)

| Project | Loan/Credit/TF | Status | Approval Date | Signing Date | Effectiveness Date | Orig. Closing Date | Rev. Closing Date |
|---------|----------------|--------|---------------|--------------|--------------------|--------------------|-------------------|
|---------|----------------|--------|---------------|--------------|--------------------|--------------------|-------------------|



P165183 IDA-D3970 Effective 06-Dec-2018 10-Jan-2019 08-Apr-2019 30-Nov-2023 30-Nov-2023

Cumulative Disbursements



Restructuring History

There has been no restructuring to date.

Related Project(s)

There are no related projects.