Early Market Engagement with Potential Contractors

RMI REGAIN / FSM ARISE outer islands electrification projects

32nd PPA Annual Conference and Trade Exhibition 2025

Weno, Chuuk, FSM

Palau

23 September 2025

Sebastien Pitot – TTA Chuuk Resident Coordinator

tta Energy that drives change

Objectives

- Introduce the FSM ARISE & RMI REGAIN projects
- Share details of the opportunities
- Gather feedback on the procurement approach
- Share the pipeline of upcoming opportunities in the region

Uman, Chuuk, FSM

FSM ARISE / RMI REGAIN

FSM ARISE

Access and Renewable Increase for Sustainable Energy

Implemented by FSM DoR&D

US$42m

RMI REGAIN

Renewable Energy Generation and Access Increase

Implemented by MEC

US$60m

- WB-funded programmes
- Aiming to strengthen the RMI / FSM energy sectors
- Building climate-resilient infrastructure and expanding electricity access
- Considering joint procurement activities for:
  1. Outer islands electrification (solar PV mini-grids)
  2. Grid-tied solar PV + BESS

Ongoing project:
Solar mini-grids in Chuuk, FSM

Solar PV canopy in Eot Island, Chuuk, FSM

- WB-funded SEDAP
- Construction of solar mini-grids ongoing
- Islands:
  - Inner lagoon: Udot, Eot
  - Outer lagoon: Satowan
- Bringing power to 475 households
- Working closely with the communities
- Completion by end of 2025

Gathering experience; ready to replicate

1. Outer islands electrification

FSM ARISE

Subcomponent 1.1: Chuuk Islands Electrification

Solar PV mini-grids (4 islands)

- Uman, Tol, Onoun, Moch

Total contract size estimated:

> $30m

Timeline: Q4 2025

RMI REGAIN

Component 2: Improved Access to Electricity in Outer Islands

(1) Solar PV mini-grids (4 islands)

- Arno, Ine, Jabo, Matolen

(2) Mini-grid hybridisation (3 islands)

- Rongrong, Jaluit, Wotje

2. Grid-tied PV + BESS

FSM ARISE

Component 2: Renewable Energy Generation

Chuuk, Pohnpei, Yap

4.5 MWp + 7.5 MWh

RMI REGAIN

Component 1: Renewable Energy and Network Upgrade

Majuro, Ebeye

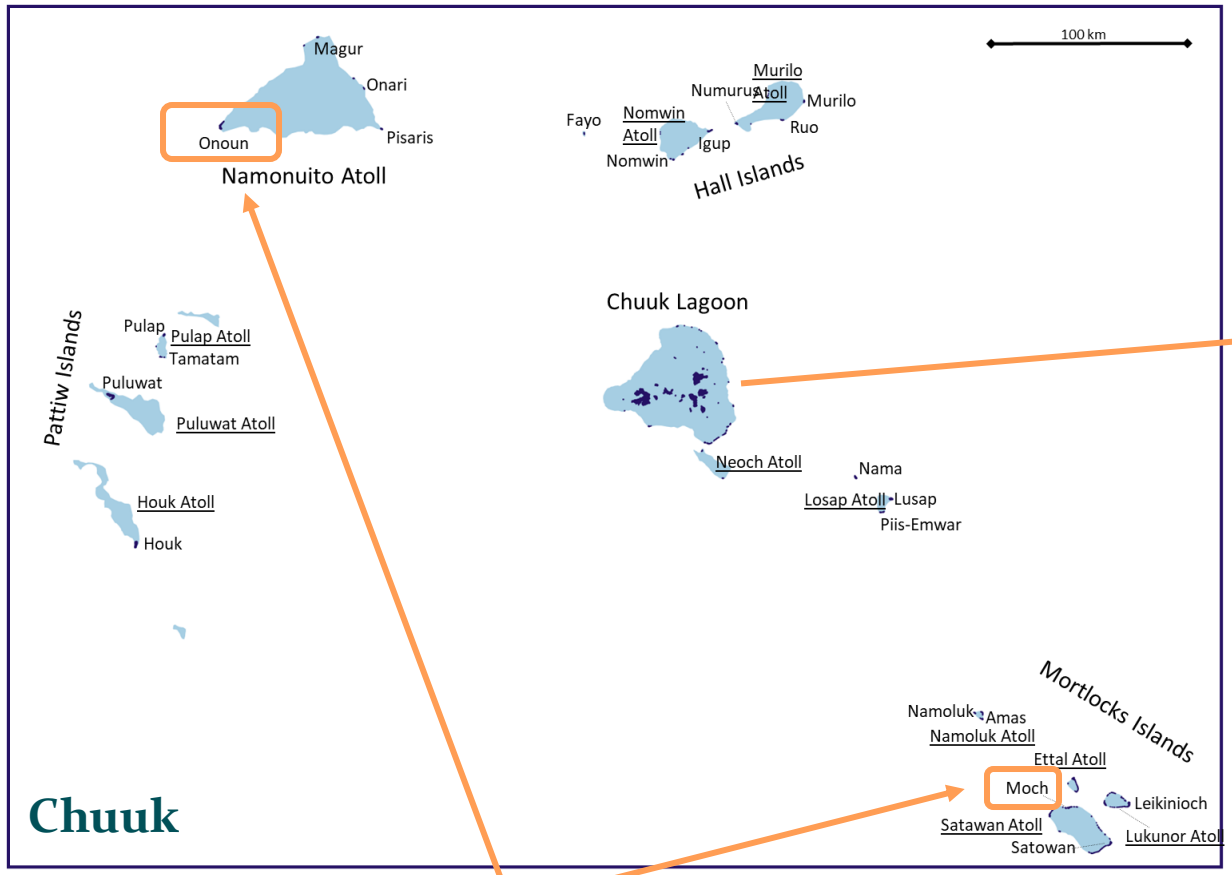
5.5 MWp + 9 MWh

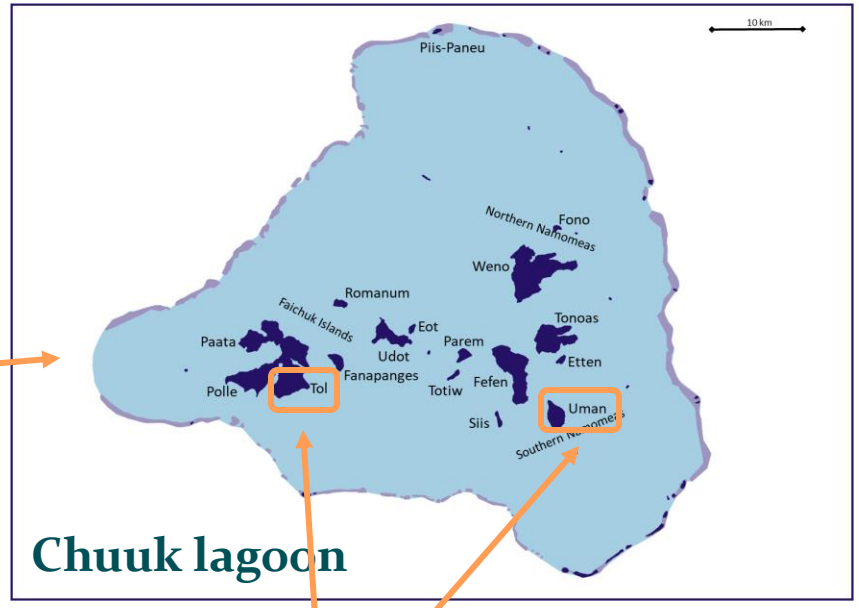
Total contract size estimated:

> $30m

Timeline: Q3 2026

FSM ARISE Perimeter



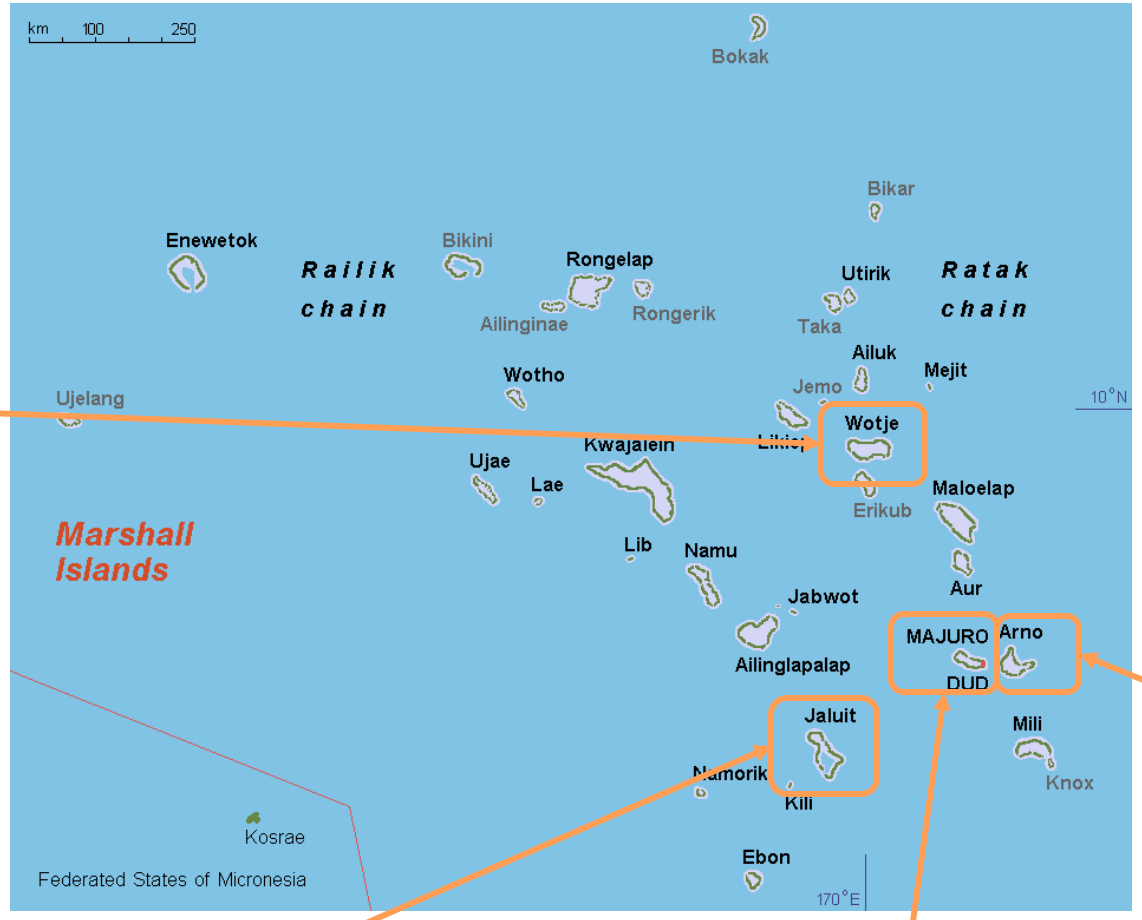


Outer lagoon:
Onoun, Moch

Inner lagoon:
Uman, Tol

RMI REGAIN Perimeter

Wotje Atoll: **Wotje**



Arno Atoll: **Arno, Jabo, Ine, Matolen**

Jaluit Atoll: **Jaluit**

Majuro Atoll: **Rongrong**

Scope of Work

A to Z contract

- Engineering, supply, installation, commissioning
- From powerplant to end-users
- Standardised approach across the region

Roof reinforcements and retrofits
- Replacement of corrugated metal sheets, gutter replacement
- Timber frame replacement / reinforcements

Power generation plant
- PV canopy
- Solar PV + BESS + genset
- Technical room

Distribution lines
- All underground, with pillar boxes
- LED public streetlighting
- Three-phase MV lines + transformers for Uman and Tol

End-user wiring
- Meter box, load centre, earthing
- Indoor wiring package (LEDs, sockets)
- Standalone PV systems for remote houses

O&M support to utility
- Remote assistance
- Training to utility technicians

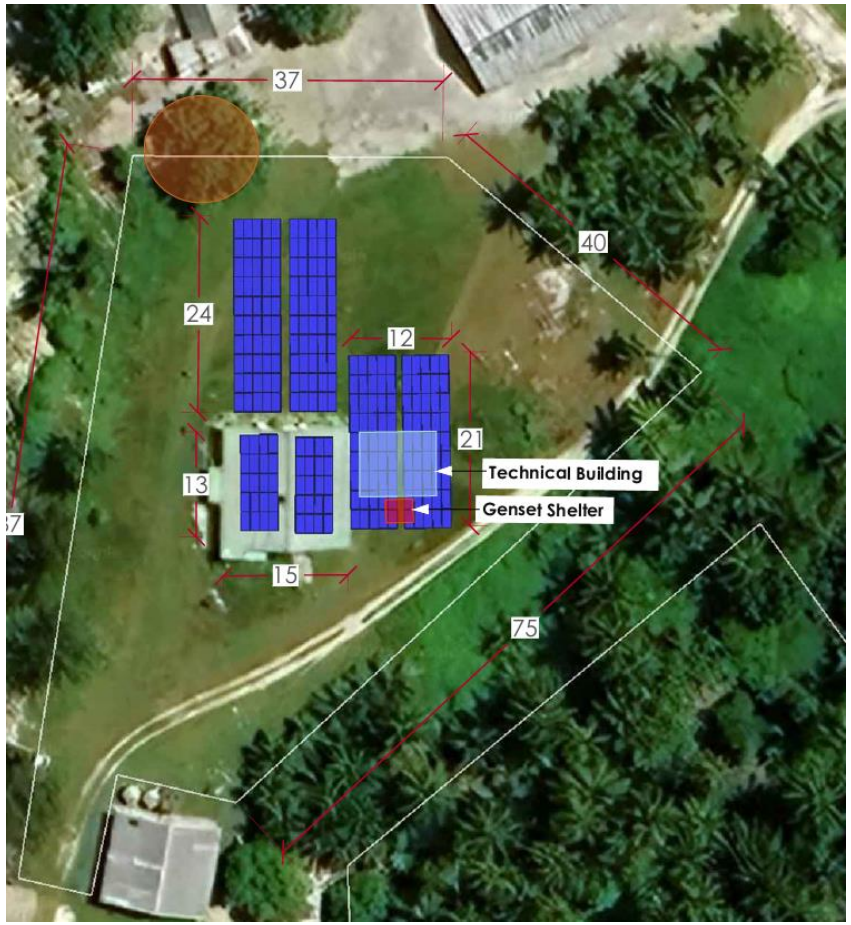
FSM ARISE Concept Design

Island	End-users (#)	PV sites	PV (kWp)	Li-Ion battery (kWh useful)	Battery inverter (kVA)	Genset (kVA)	Distribution
Uman	342	2x rooftop 1x canopy	≥ 327	≥ 660	≥ 93	≥ 93	MV 13.8kV
Tol (Wonip, Munien)	253	3x rooftop 1x canopy	≥ 271	≥ 560	≥ 119	≥ 119	MV 13.8kV
Onoun	91	1x canopy	≥ 80	≥ 190	≥ 25	≥ 25	Split-phase 120V/240V
Moch	100	1x rooftop 1x canopy	≥ 104	≥ 225	≥ 31	≥ 31	Split-phase 120V/240V
Total	**786**		**782 kWp**	**1,810 kWh**			

Identified PV site, Uman Island, Chuuk

RMI REGAIN Concept Design

Island	End-users (#)	PV sites	PV (kWp)	Li-Ion battery (kWh useful)	Battery inverter (kVA)	Genset (kVA)	Distribution
(1) Solar PV mini-grids							
Arno	57	1x canopy	≥ 160	≥ 540	≥ 56	≥ 56	MV 13.8kV
Jabo	18	1x canopy	≥ 40	≥ 100	≥ 15	≥ 15	Split-phase 120V/240V
Ine	39	1x rooftop 2x canopy	≥ 130	≥ 420	≥ 45	≥ 45	Split-phase 120V/240V
Matolen	25	1x canopy	≥ 50	≥ 220	≥ 27	≥ 27	Split-phase 120V/240V
(2) Mini-grid hybridisation							
Jaluit	-	1x rooftop 2x canopy	≥ 850	≥ 2,520	≥ 550	≥ 177	-
Wotje	-	1x canopy	≥ 600	≥ 2,160	≥ 550	≥ 195	-
Rongrong	-	1x rooftop	≥ 100	≥ 240	≥ 23	≥ 23	-
Total			1,930 kWp	6,210 kWh			



Identified PV site, Ine, RMI

Procurement approach

How do we create an attractive bid?

(1) Single lot per country

-> Full SoW, all islands together *(note: for RMI, considering 2 lots)*

(2) Prequalification

-> Clarify expectations, get feedback

(3) Weighted evaluation criteria

-> Emphasis on promoting high-quality bids and experienced firms

(4) EPC (FIDIC Silver)

-> Preferred option over DSI

(5) Joint procurement FSM / RMI

-> Common prequalification + aligned timelines being considered

EPC (FIDIC Silver)

EPC Turnkey using FIDIC Silver Book – Contracts elements:

				
(1) **Single point of responsibility** for design, procurement, and construction.	(2) **Fixed price and completion date.** -> Certainty on cost and time for completion.	(3) **Price adjustment included if construction exceeds 18 months.**	(4) **Security provisions** to protect against contractor non-compliance.	(5) **Defects liability period** and warranties for critical components.

Focus: Prequalification criteria

Prequalification criteria	Proposed value for FSM ARISE
2.1 History of non-performing contracts 2.4 Litigation history	None since 1st January 2018
3.1 Financial capabilities	Liquid assets $2.8m
	5y of audited assets
3.2 Average annual construction turnover	$7m within the last five years prior to bidding
4.1 General construction experience	8y prior to the day of bidding
4.2.a Specific construction & Contract management experience	5 similar contracts completed since 2018 each over $700k
4.2.c Track record and Prior collaboration	No record of poor performance

Focus: Weighted criteria

Step 1: Assessment of Technical Adequacy – pass or fail

Step 2: Rated Criteria Evaluation – **points for exceeding requirements**

ID	Technical factor	Maximum score
1	Previous experience in similar projects	20
2	Methodology	25
3	Key personnel	15
4	Components	8
5	Climate resilience	8
6	Supply chain optimisation	8
7	Local knowledge transfer and O&M	8
8	Local participation	8
		100

Evaluated bid score weighted by technical score and financial offer

Opportunities in Micronesia

Project name	Implementing agency	Scope of Work	PV / BESS capacity	Location	Timeline for tendering
ARISE – Comp 1 World Bank	DoRD	Solar mini-grids	800 kWp + 1.8 MWh	Chuuk: Uman, Tol (Wonip), Onoun, Moch	Q4 2025 (Prequal.)
ARISE – Comp 2 World Bank	DoRD	Grid-tied PV + BESS	4.5 MWp + 7.5 MWh	Chuuk, Pohnpei, Yap	Q4 2026
FSM.SE EU, DFAT	SPC	Solar mini-grids	1 MWp + 1.8 MWh	Chuuk: Fefen, Etten, Piis-Paneu	Tender open
CREWS ADB (Phase 1)	DoRD	Productive Use of Energy Equipment & Distribution System	5 Water treat plants (5kW); 5 Ice making plants; 5 Cold storage; 19km of MV and 21 km LV lines	FSM	Tender Open
CLEAN ENERGY PROJECT (PRF) ADB	DoRD	Pilot Hydro Project	50kW	Pohnpei	Q4 2025
REGAIN – Comp 2 World Bank	MEC	Solar mini-grids Mini-grid Hybridisation	1.9 MWp + 6.2 MWh	Arno, Ine, Jabo, Matolen, Rongrong, Jaluit, Wotje	Q4 2025 (Prequal.)
REGAIN – Comp 1 World Bank	MEC	Grid-tied PV + BESS	5.5 MWp + 9 MWh	Majuro, Ebeye	Q3 2026

Many opportunities to come in the region

Contact points

Majuro Atoll, RMI

For FSM Projects:

- Programme Manager
- Leola Primo
- leola.primo@rd.gov.fm

For RMI Projects:

- MEC CEO
- Jack S. Chong-Gum
- jack.chonggum@mecrmi.net

Please send us your feedback

Request the presentation at sebastien.pitot@ttaenergy.com

Energy that drives change

Thank you

September 2025

Sebastien Pitot

sebastien.pitot@ttaenergy.com

Avinguda Meridiana, 153 - Barcelona, ESPAÑA

+34 93 446 3234 tta.com.es TTA - Trama TecnoAmbiental