



RFP22-3712

Supply and delivery of a 60kWp solar PV grid connected system with battery energy storage system to Yap, Federated States of Micronesia.

Supplementary Information – 2

1. *Could you please confirm the corrosion category at the site (C3 to C5)? Or alternatively, specify the anodization layer required for the aluminum structure?*

RFP states:

"A high resistance to corrosion for all exposed materials..."

- *"A very corrosive marine-coastal environment with a high air-borne salt content"*

Corrosion category is for "Coastal areas and maritime zones with a high salt content."

The location of the solar site on the northern eastern (prevailing wind) side of Ulithi Falalop is considered / classified as an offshore area with salt spray exposure

Thus Corrosion category is CX – Extreme (new standard) - C5-M – Very High (marine) (old standard)

2. *Could you please confirm that the existing generators are 3-phases?*

Yes, they are

3. *Could you please specify if only one Diesel generator or both generators will be connected to the AC Combiner box?*

Only one Diesel generator

4. *Could you please specify if the generators output should be connected to all (6 or 9) battery inverter AC inputs?*

RFP states:

"All power generated in Falalop to date is supplied through diesel generation with a total capacity rating of 130 KW (40kW (Cummins) and 90kW (CAT))"

(Note : The 90kW (CAT) generator will be run independently from the solar system and manually connected to the grid in special occasion of high load and as backup)

We accept that only the 40kW Cummins generator will be connected to the battery inverters at a derated capacity of 36kVA (maximum 100A per phase under 120V).

Which means that

If Solution 1 is selected, the generator output should be able to be connected to a minimum of 6 (2 per phase) (out of 9 installed in total) battery inverters to reach 36kW (6 x 6800W)

If Solution 2 is selected, the generator output should be able to be connected to a minimum of 3 (1 per phase) (out of 6 installed in total) battery inverters to reach 36kW (3 x 12000W)



5. *Could you please confirm that the AC breakers for the Inverters outputs can be located in the main AC Combiner Box?*

Yes, they can

6. *Could you please clarify if the UL1741 certificate is a mandatory requirement for the Inverters? The tri-phase system requested is usually not compatible with North American inverters and would require units designed for the European market. However, the system as a whole would still comply with the relevant UL standards and match the requested voltage and frequency.*

The UL1741 certificate is NOT a mandatory requirement for the Inverters.

Safety standards can also be EN-IEC (European market). The system shall match the requested voltage and frequency.