



GUAM POWER AUTHORITY

ATURIDÁT ILEKTRESEDÁT GUÅHAN
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February 16, 2023

AMENDMENT NO.: V

TO

INVITATION FOR MULTI-STEP NO.: GPA-012-23

FOR

RENEWABLE ENERGY RESOURCE ACQUISITION PHASE IV

Prospective Bidders are hereby notified of the following inclusion and changes:

INCLUSION:

REMOVE Page 113 of 263 and **REPLACE** with Page 113a of 263 (see attached).

Under Volume II: Technical Qualification Proposal Requirements, ADD:

2.7 End-of-Life Disposal and Recycling Plan

Within the first 90 days after contract award, the Contractor shall provide an end-of-life disposal and recycling plan for GPA's review.

CHANGES:

1. **REMOVE** Page 102 of 263 and **REPLACE** with Page 102a of 263 (see attached).

Under Volume II: Technical Qualification Proposal Requirements, Item 1. OVERVIEW, DISPATCHABLE ACTIVE POWER CAPABILITY: is changed

FROM:

The active, or real, power of the renewable energy resource shall be dispatchable at the point of interconnection, between the hours of 6:00 PM to 6:00 AM, as required by the GPA Power System Control Center operators or a SCADA control point. The available capacity may also be dispatched outside of these hours if deemed necessary by the GPA Power System Control

Center operators. The delivered output to the GPA grid shall be firm, non-intermittent power with a ramp-up and ramp-down rate limited to 1% of rated power output per minute. However, this rate may be exceeded at the request of the GPA Power System Control Center operators. The total capacity and energy available for dispatching shall be provided to the GPA Power System Control Center through a SCADA point every second.

TO NOW READ:

The active, or real, power of the renewable energy resource shall be dispatchable at the point of interconnection for 12 hours, between the hours of 6:00 PM to 6:00 AM, as required by the GPA Power System Control Center operators or a SCADA control point. The available capacity may also be dispatched outside of these hours if deemed necessary by the GPA Power System Control Center operators. The delivered output to the GPA grid shall be firm, non-intermittent power with a ramp-up and ramp-down rate limited to 1% of rated power output per minute. However, this rate may be exceeded at the request of the GPA Power System Control Center operators. The total capacity and energy available for dispatching shall be provided to the GPA Power System Control Center through a SCADA point every second.

2. **REMOVE** Page 113 of 263 and **REPLACE** with Page 113a of 263 (see attached).

Under Volume II: Technical Qualification Proposal Requirements, Item. 2.5.2 Pricing for Energy Above Guaranteed Amount, links are changed for the following:

a. **FROM:**

Data on the current LEAC fuel recovery costs can be found on GPA's website at:

http://www.guampowerauthority.com/gpa_authority/rates/gpa_rate_schedules.php

TO NOW READ:

<http://www.guampowerauthority.com/leac>

b. **FROM:**

Details about historical filings and LEAC fuel recovery charges can be found on the PUC's website at:

<http://www.guampuc.com/main/?pg=docs&category=Guam%20Power%20Authority&subcat=LEAC>

TO NOW READ:

<http://www.guampuc.com/dockets/power>

c. **FROM:**

Details of the calculation of the LEAC can be found under GPA's Rate Schedule "Z" at:

http://www.guampowerauthority.com/gpa_authority/rates/documents/ScheduleZ-61kb.pdf

TO NOW READ:

https://admin.guampowerauthority.com/uploads/20151001_Base_Rate_Tariff_FY_2016_Full_Set_bfbc5c81f7.pdf

All other Terms and Conditions in the bid package shall remain unchanged and in full force.



for JOHN M. BENAVENTE, P.E.
General Manager



GUAM POWER AUTHORITY RENEWABLE ENERGY RESOURCE ACQUISITION – PHASE IV
Volume II: Technical Qualification Proposal Requirements

1. OVERVIEW

In this Invitation for Multi-Step Bid (“IFB”), GPA is seeking competitive bids for renewable energy resources to meet a portion of its overall resource needs. For selected Bidder(s), GPA will execute purchase power agreements for delivery of firm, non-intermittent power from one, or more, renewable generation resources to the 34.5 kV or 115 kV GPA transmission system. GPA intends to procure a total minimum annual energy of 300,000 MWh up to 530,000 MWh (approximately 180 MW to 320 MW), based on proposed sites, in this Phase IV acquisition that can meet the following established requirements:

- **RENEWABLE RESOURCE TECHNOLOGY:** The Bidder’s resource technology shall be grid-forming / black-start capable and meet the definition of “renewable resource” as described in *Section 2.2.1 Acceptable Renewable Technologies.*

- **ENERGY AND CAPACITY:** The renewable energy resource shall deliver an annual minimum energy (AC) as specified in the Bidder’s Qualitative Proposal with a maximum export capacity of 80 MW (AC) at the interconnection point; this may be a combination of several generation units at one or more sites. However, the nameplate capacity that can be installed may be higher than 80 MW, subject to the maximum additional MW capacity that the GPA system can handle as determined by a System Integration Study. The System Integration Study will be completed within 120 days after evaluation of the Price Proposal(s) and initial notification of the most qualified Bidders.

- * • **DISPATCHABLE ACTIVE POWER CAPABILITY:** The active, or real, power of the renewable energy resource shall be dispatchable at the point of interconnection for 12 hours, between the hours of 6:00 PM to 6:00 AM, as required by the GPA Power System Control Center operators or a SCADA control point. The available capacity may also be dispatched outside of these hours if deemed necessary by the GPA Power System Control Center operators. The delivered output to the GPA grid shall be firm, non-intermittent power with a ramp-up and ramp-down rate limited to 1% of rated power output per minute. However, this rate may be exceeded at the request of the GPA Power System Control Center operators. The total capacity and energy available for dispatching shall be provided to the GPA Power System Control Center through a SCADA point every second.

- **DISPATCHABLE REACTIVE POWER CAPABILITY:** The renewable energy resource must provide a dispatchable reactive capability requirement up to 0.80 lag to lead at the point of interconnection as required by the GPA Power System Control Center operators and a SCADA / grid controller automated

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- * <http://www.guampowerauthority.com/leac>

Details about historical filings and LEAC fuel recovery charges can be found on the PUC’s website at:

- * <http://www.guampuc.com/dockets/power>

Details of the calculation of the LEAC can be found under GPA’s Rate Schedule “Z” at:

- * https://admin.guampowerauthority.com/uploads/20151001_Base_Rate_Tariff_FY_2016_Full_Set_bfbc5c81f7.pdf

For the evaluation, GPA shall use the most recent LEAC Rate approved by the PUC. An amendment shall be forwarded to all prospective bidders for the final rate.

2.5.3. Energy Purchase Price Units

The Bidder shall provide a fixed price bid in \$/MWH for the term of the proposed delivery of renewable energy for each ESS proposal options. The price bid shall include the capital and O&M components which shall be referred to should GPA exercise the capital buy-out option. All columns in the bid price worksheet must be filled. GPA will not accept bids with year-over-year (YOY) escalation rates greater than 1.0% per year.

2.5.4. Bid Expiration

All Bid terms, conditions, and pricing are binding for 8 months following the due date of the IFB.

2.6. Renewable Energy Credits and Environmental Credits

GPA retains all environmental attributes associated with the winning Bidder’s energy, including but not limited to renewable energy credits, greenhouse gas, green tags, or carbon credits, and any other emissions attributes, all as set forth in the form of Renewable Energy Purchase Agreement.

*** 2.7 End-of-Life Disposal and Recycling Plan**

Within the first 90 days after contract award, the Contractor shall provide an end-of-life disposal and recycling plan for GPA’s review.