



MANILA ELECTRIC COMPANY (MERALCO)
Ortigas Center, Brgy. Ugong, Pasig City

REQUEST FOR INFORMATION
(SCM RFI NO. RFI-CD0824-0231-1)

SMART MEDIUM VOLTAGE LINE SENSORS (WITH SENSOR MANAGEMENT SYSTEM)

With the emergence of new technologies and innovations that can further improve quality of service, MERALCO invites interested vendors to provide general information regarding the potential requirement for **Smart Medium Voltage (MV) Line Sensors** (including its Sensor Management System and pilot of demo unit). MERALCO seeks to scan for available technological solutions in the market that meet the required purpose, and to assess accessibility to vendors in case of a possible procurement.

MERALCO is exploring the market for technological solutions that can help for it to be more proactive in detecting incipient (low level) troubles along the lines, which if neglected can eventually lead to permanent outages. The objective is to improve customer service by identifying potential causes of outages and locate them in the distribution system while the line is energized, so MERALCO can conduct preventive measures to mitigate risks and avoid interruption. In cases where faults have already occurred, MERALCO is also looking for solutions that can help locate them and determine probable causes even in the absence of actual evidence.

DETAILS
<p>The solution should have these basic characteristics:</p> <p>For the Distribution Line Sensors:</p> <ul style="list-style-type: none">a. Should be installed with minimum system disruption.b. Ability to operate at a maximum ambient temperature of 41 degrees or more Celsius.c. UV-rated and weather-proofed amidst strong typhoons of up to 300 km/hr.d. Can be powered inductively from the line where they are connected and shall be capable of sending “last gasp” or communicate even when no power is flowing in the conductor it is attached to.e. Adaptable to 34.5 kV and 13.8 kV line-to-line voltages and support overhead conductors both bare wire and insulated wire up to 32 mm in diameter.f. Can operate on three-phase, 4-wire system.g. Communication shall use available technologies like cellular or equivalent in the Philippines and can keep accurate time.h. Capable of recording load current, fault current, waveforms, and other parameters (i.e., ambient temperature, conductor temperature, conductor movement etc.) <p>For the Sensor Management System:</p> <ul style="list-style-type: none">a. Cloud or on-premises implementation.b. Web-based dashboards shall be easy to use and navigate.c. Solution shall be able to connect to a GIS or Geographic Information System.d. Solution is preferred to work with mobile devices.e. Solution shall be highly scalable.f. Solution shall be able to provide real time information to SCADA or ADMS.g. System should include predictive analytics software to identify line troubles and detect outages before customers call, preventing future outages.

SUBMISSION SCHEDULE:

ACTIVITY	DATE	TIME
Deadline of Submission	August 13 – August 23, 2024	Until 11:59 PM of August 23, 2024

Interested vendors are requested to submit the following:

- a. Duly signed and notarized Non-Disclosure Agreement (NDA) document (Please see attachment for MERALCO’s standard NDA template)
- b. Company Background/ Profile
- c. Products/Services/Solutions that the company offers
- d. Related documents to proposed products/ services/solutions [e.g., Technical Data Sheet (TDS), drawings, etc.
- e. Experience working on similar projects
- f. Timeline in providing the Products/ Services/ Solutions
- g. Approximate Cost of the Products/ Services/ Solutions

Supplemental Information:

- This RFI is non-binding and does not constitute a commitment to acquire vendor’s products or services.
- Vendors shall shoulder all costs associated in the preparation of their responses (e.g., preparation of budgetary quotation, conduct of Proof of Concept/ Product Demo, among others).
- Responses received are to be used solely for informational and benchmarking purposes only.
- Documents or information provided with the responses shall become property of MERALCO.
- Non-Disclosure Agreement (NDA) is required prior the release of TDS, drawings, and confidential data to the vendors

MERALCO reserves the right to:

1. Issue an addendum to the RFI at any time as a result of questions, change in submission schedule, or other matters; and,
2. To cancel or re-issue the RFI on a reasonable basis.

Please submit the requested information via email to Natalie Christy Emplica (group.networks.retail.supplies@meralco.com.ph) not later than **11:59PM, August 23, 2024**. For inquiries or clarifications prior to the submission deadline, respondents may communicate directly to the assigned buyer.

(sgd.)
GLEN N. SAN PEDRO
Head, Supply Chain Management

MERALCO employs strict cybersecurity controls. Kindly refer to the following link for the Vendor Cybersecurity Advisory:
<https://company.meralco.com.ph/news-and-advisories/supply-chain-management-invitations-bid>