



Invitation to Participate in Market Sounding Exercise for Implementation of Advanced Metering Infrastructure (AMI) – Establishment of Smart Meter Head-End Systems (HES) at Distribution Control Centres (DCCs) of Ceylon Electricity Board (CEB), Sri Lanka

The **Ceylon Electricity Board (CEB)** is undertaking strategic steps toward the modernisation of its distribution network by implementing an Advanced Metering Infrastructure (AMI). A key component of this AMI initiative is the establishment of Smart Meter Head-End Systems (HES) at its Distribution Control Centres (DCCs), enabling secure, remote monitoring and control of metering devices across the power distribution landscape.

CEB is hereby inviting interested competent parties with relevant experience in implementing Advanced Metering Infrastructure (AMI) solutions and Smart Meter Head-End Systems (HES) platforms in electricity distribution utilities to participate in this Market Sounding Exercise, aimed at gathering industry insights to shape the technical and strategic direction of the project.

Purpose of the Market Sounding

This exercise is conducted to:

- Identify global industry best practices, scalable architecture models, and interoperable technologies applicable to AMI and HES implementations.
- Gather expert input on system specifications, integration standards, cybersecurity frameworks, operations and maintenance models, and capacity-building requirements.
- Facilitate early engagement with experienced vendors and system integrators to inform the upcoming Request for Proposals (RFP) for HES deployment at CEB.

Scope of AMI and HES Implementation

The proposed AMI implementation, centred around the deployment of the HES platform, is expected to include (but not be limited to):

- Centralised remote meter reading, control, and data acquisition from:
 - NCRE sources (including RTSPV systems, mini-hydro, wind, and biomass plants)
 - Bulk supply points
 - Grid Substation (GSS) feeder meters
 - Boundary meters
 - Distribution substation meters
- Real-time data polling and telemetry for operational visibility and control of metering infrastructure and remote supply operations.

- Interoperability with multiple meter brands and modem types currently installed in the field, including:
 - Support for integration with meters from different manufacturers.
 - Capability to utilise custom-designed modems to enable communication with existing meters.
 - Compliance with standard DLMS/COSEM and other open standards for seamless data exchange
 - Support for vendor-specific integration in heterogeneous meter environments.
- Functions such as remote configuration, firmware upgrades, event and tamper detection, and diagnostics.
- Integration with existing and future Meter Data Management Systems (MDMS), SCADA/EMS platforms, and utility billing systems.
- Dashboards and analytical tools for meter health, alarms, communication diagnostics, and performance monitoring.

This market sounding exercise is intended for information gathering purposes only and **does not constitute a formal procurement process**. CEB will present the project overview and expectations of the project during the market-sounding exercise, which will also be made available on the CEB website for reference by all potential participants and other interested parties.

Participation in this market sounding process has no bearing on future procurement processes and will not provide any direct or indirect advantage or disadvantage to any respondents(s) in any subsequent procurement stages.

How to Participate

Interested competent parties may access the Market Sounding Questionnaire from CEB, Ministry of Energy or Electronic Government Procurement (eGP) websites as follows:

- <https://www.ceb.lk/>
- <http://powermin.gov.lk/>
- https://promise.lk/?p=front_cont&a=e_government_procurement

Alternatively, a request for access may be submitted via email to: agmdd2@ceb.lk

The **duly filled Market Sounding Questionnaire** shall be submitted online through the following link: <https://forms.gle/H2CZvddrp4ZxmsNt5>

The market sounding activity will be conducted in an open forum on fixed date, with the participation from all parties who responded to the advertisement and expressed interest. Date for the open forum will be informed in writing to all parties who has responded to the advertisement and expressed interest upon passing of deadline.

Confidentiality of the information submitted for the Market Sounding Questionnaire by the interested competent parties will be ensured by CEB.

Deadline for submission: Wednesday, 25th June 2025 at 18:00 hrs (Sri Lanka Time)

Office of Addl. General Manager (DD2)

Ceylon Electricity Board

No. 205/3, Kandy Road, Pahala Biyanwila, Kadawatha, Sri Lanka.

09 June 2025