

Request for Proposal (RFP) "Monitoring Energy Business and Commercial Sector for Bali Net Zero Emission 2045"

Institute for Essential Services Reform

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1. BACKGROUND

Institute for Essential Services Reform (IESR), a think tank based in Jakarta, Indonesia, has been working intensively to promote the acceleration of low carbon energy transition in Indonesia, through evidence-based policy advocacy. For the past 10 years, IESR also has been contributing significantly to promote energy transition discourse in Indonesia and has been working with national and local governments, associations, and civil society organizations to strengthen clean energy deployment in Indonesia.

Bali has set an ambitious vision to achieve Net Zero Emissions by 2045, ahead of Indonesia's national target of 2060. In recent years, Bali's government and stakeholders have introduced policies to support clean energy proved by Bali Governor Regulation Number 45 of 2019 regulates Clean Energy in Bali. With this target in place, Bali is taking the initiative to translate its regional development mission, which is environmentally oriented, while simultaneously enhancing its tourism appeal through the principles of sustainable tourism. One of the benchmarks in establishing the Bali Net Zero Emission (NZE) 2045 roadmap, particularly within the electricity sector, is the level of electrical energy consumption. Data on energy consumption is essential to ascertain electricity demand as well as the community's electricity usage behavior, enabling an analysis of energy efficiency potentials and strategies. Early efforts to understand and curb emissions focused on the household sector. Pilot programs have monitored residential electricity use for instance, installing smart meters in homes or running community energy-saving campaigns to gather data on how households consume power (lighting, cooling, appliances, etc.). These household monitoring initiatives provided valuable insights into residential energy behavior, such as peak evening usage patterns and the impact of awareness on reducing consumption. However, to meet the Net Zero 2045 goal, attention must expand beyond households to include the business, commercial, and government sectors.

Businesses (from small enterprises to large commercial facilities like hotels and malls) and government institutions (offices, schools, street lighting, etc.) account for a substantial portion of Bali's energy consumption. Many of Bali's commercial activities – especially in tourism and hospitality – are energy-intensive (e.g. 24/7 operation of hotels, air conditioning in retail spaces). Yet, unlike the household sector, these segments have not been systematically monitored in past efforts. There is a data gap in understanding how and when businesses and public facilities use energy, and what habits or operational practices drive that consumption.





2. OBJECTIVES

The proposed project aims to deepen understanding of energy consumption in Bali's business, commercial, and government sectors, in order to support evidence-based strategies toward Net Zero 2045. The key objectives include:

- 1. Establish a baseline, measure and document current energy consumption levels in targeted businesses, commercial establishments, and government facilities across Bali. This includes identifying typical usage (daily and seasonal patterns) and benchmarking energy performance in these sectors.
- Understand consumption behavior and patterns, analyze how energy is used in these sectors. The project will look for trends such as peak demand hours, differences in weekday vs. weekend usage, and variations between sub-sectors (for example, hotels vs. office buildings).
- 3. Identify opportunities to support Bali NZE 2045 initiative, using the data collected, pinpoint where there are opportunities to save energy or switch to cleaner energy in the business, commercial, and public sectors. This may involve highlighting inefficient practices, outdated equipment, or high-energy intensity processes that can be improved.

4. PROJECT SUMMARY

This project will implement a comprehensive energy consumption monitoring program targeting Bali's business, commercial, and government sectors for a minimum of 170 buildings with 5% margin error of unusable respondents' data. The core activities include collecting detailed energy use data only (direct measurement, survey & assessment, analytical & remote, etc.). The ultimate deliverable is a report and dataset that reveal how these sectors consume energy.

The project is commissioned by the Institute for Essential Services Reform (IESR) under the framework of the Bali NZE 2045 roadmap. The implementation on the ground will be carried out by a selected vendor or consultant team (through a competitive bidding process). Target vendors include experienced energy consulting firms, research institutions, or technology providers with expertise in energy monitoring and data analytics. The selected vendors will be responsible for executing the monitoring activities using appropriate and approved methodologies (direct measurement, survey & assessment, analytical & remote, etc). Key stakeholders who will benefit from the project outcomes are policy makers (needing data for decision-making), business and commercial





building owners (gaining insights into their energy efficiency), and government facility managers (who can benchmark and improve their energy management practices).

Over approximately four months, the project will cover the design of a monitoring approach, selection of sample sites (e.g. a representative set of businesses and public buildings in different areas of Bali), deployment of monitoring methods, data collection of energy use for a minimum of 3 months (likely on an hourly or daily basis to capture usage fluctuations). The monitoring will be non-intrusive and respect operational needs of businesses/government offices. The result will generate insights on energy consumption behavior and patterns in the targeted sectors. For instance, the project might uncover that office buildings have a sharp peak in AC usage at mid-day, or that certain commercial areas have significant after-hours power waste.

1. PROPOSAL GUIDELINES

Proposals will be accepted until 12:00 p.m. Indonesian Western Standard Time (WIB, GMT+07) on 16 May 2025. Any proposals received after this date and time will be regarded as inadmissible. All proposals must be signed by an official agent or representative of the company submitting the proposal. Upon receipt of the proposal, IESR will evaluate all the proposals and if clarification is required, a meeting may be held during the evaluation process before the winner is announced.

Main proposals should not be more than 10 pages in length. The annex of the proposal should include the following item:

- 1. Brief company/institution/experts profile.
- 2. the latest Curriculum Vitae (CV) of the team leader. CV of other team members with relevant experience is optional.
- 3. Provide 2-3 examples of previous projects that are similar in scope or nature.

If the individual/organization submitting a proposal must outsource or contract any work to meet the requirements, this must be clearly stated in the proposal. Additionally, costs included in proposals must include any outsourced or contracted work. Any outsourcing or contracting organization must be named and described in the proposal. Please itemize all costs and include a description of associated services. Contract terms and conditions will be negotiated upon the selection of the winning bidder for this RFP.





2. PROJECT TIMELINE

Project kick-off will be conducted on 26 May 2025 and the results of the project must be finalized no later than 30 September 2025.

A draft timeline is presented below. Internal changes may be made if mutually agreed.

Activity	Expected Timeline
Deadline for the proposal submission	16 May 2025
Clarification meeting between IESR and consultants	19-20 May 2025
Winner announcement	23 May 2025
Project Kick-off	26 May 2025
Monitoring energy begins	26 May 2025
Checkpoint and discussion on monitoring energy progress with IESR team	Week 2 or 3 July 2025
Preliminary report & presentation	Early September 2025
Revision	2 weeks in September
Results presentation, report & data handover to IESR team	30 September 2025

Unless otherwise noted, work will be completed by the end of month identified above.

3. BUDGET

All proposals must include proposed costs (in Indonesian Rupiah/IDR) to complete the tasks described in the project scope and detailed activities including focus group discussions, cost and travel, when necessary. Costs should be stated as one-time or non-recurring costs (NRC).

NOTE: All costs and fees must be clearly described in each proposal.

4. BIDDER QUALIFICATIONS

Bidders should provide the following items as part of their proposal:

- The vendor must have prior experience with projects related to energy monitoring. These could be projects surveys monitoring energy for organizations or conducting energy audits for buildings, for instance:
 - Identify the total detailed number of buildings in commercial, governmental, business, and social sectors (e.g., hospitals, schools).
 - Select representative buildings from each sector to serve as survey samples.





- Use an online form to gather data for each selected building.
- Conduct on-site surveys (walk-through audits), including assessments of lighting, HVAC systems, IT services, elevators, water heating, and other relevant equipment, if required.
- Able to convey a comprehensive explanation of energy monitoring of duration (October, 2023 2025) methods and their mechanisms to volunteers.
- Examples of two or more similar projects conducted by you/your organization (not necessarily in Bali, but similar in scope and technical challenge).
- Anticipated resources you will assign to this project (total number, role, title, experience).
- Confirmation of timeframe for completion of the project.
- Brief description on methodology and assumptions used.

Bidders must submit a digital copy of their proposal via email to Program Manager Sustainable Energy Access IESR at citra@iesr.or.id and cc to Muhamad Yudistira at yudistira@iesr.or.id and Laili Asdiyan at laili@iesr.or.id by 12:00 p.m. Indonesian Western Standard Time (WIB, GMT +07) on Tuesday, 16 May 2025. Please include "RFP Response - Monitoring Energy Business and Commercial Sector for Bali Net Zero Emission 2045" in the subject line.