

Request for Proposal (RFP)

**Web Developer for additional visualization and features on
coalradar.id / radarbatubara.id related to captive fossil-fueled
power plant**

15 May 2025

A. Background

Part of IESR's policy advocacy focuses on enabling a just energy transition of Indonesia's energy system from a fossil-based system to one with renewables and low-carbon technologies, including pushing for the early retirement of coal power plants and the rapid deployment of renewable energy as their substitute. The Indonesian stakeholders have made substantial progress and commitment toward this goal, especially regarding the on-grid power plant. In stark contrast, many industries in Indonesia still intensively use and continue building their off-grid power plants, aka captive. In 2023, 13-14 GW or 60% of the current total captive power plant capacity was coal-fired power plants (CFPP). This value is expected to continue to grow until 2030, with an additional captive CFPP capacity of around 20 GW. In addition, there's also a substantial amount of LNG and natural gas power plants both in use and the pipeline. This highlights the urgency in decarbonizing the industry sector, including its fossil-fueled captive power plant, to achieve a just energy transition in Indonesia.

An important step in substituting the aforementioned fossil-fueled captive power plant is deciding on which, when, and how said plants will be retired and what renewable energy sources are feasible as a substitute, both from the technical, economic, and legal point of view. These decisions should be based on the facts, data, and rigorous analysis at the asset level to determine the most beneficial pathway, including its cost and benefit, for each operator of the asset as part of decarbonizing their industry.

IESR is currently working on an asset-level database and sectoral analysis of captive CFPP, subsequent possible renewable substitutes, and a general decarbonization pathway with supporting study cases. As a means to disseminate said information, IESR plans to incorporate said data and findings into the coalradar.id / radarbatubara.id platform as an additional section focuses on captive CFPP.

About IESR

The Institute for Essential Services Reform (IESR) is a think tank in energy and environment. It encourages transformation into a low-carbon energy system by advocating public policy based on data-driven and scientific studies, conducting capacity development assistance, and establishing strategic partnerships with non-governmental actors.

About Coalradar.id

An online data visualization platform related to coal dynamics in Indonesia covering national and sub-national level data and projections on coal upstream and downstream industry, its impact on the economy, health, and environment. Aimed at helping policymakers, industries, academics, CSOs, and communities to gain insights to help them prepare for the energy transition away from coal.

B. Objective

- a. The objective of this project is to create an informative, intuitive, and compelling tool to disseminate the captive CFPP database and its analysis
- b. The tool would present curated information and analysis on the current status of select captive power plants, the coal transition pathway, and its potential renewable substitute
- c. The platform should be built in modular packages to allow for further development in the future

C. Deliverables

- a. General web guide
 - i. The additional captive feature should represent coalradar.id / radarbatubara.id brand image and follow its visual guideline.
 - ii. The additional captive feature should be developed for two languages i.e. Bahasa and English
 - iii. A modular approach to enable additional features in the future
 - iv. Sufficient security measures
- b. The additional captive feature would have asset-level visualization, including but not limited to:
 - i. Location of said asset using both a map and a query/list tool
 - ii. Score and subsequent explanation on said asset via contextual pop-up/tooltip or identifying feature, such as installed capacity, brief description of the asset, etc.
 - iii. Information on possible renewable energy sources substitute
 - iv. An option to select a specific area/region/unit, deep-dive, and visualize specific information with other forms of visualizations e.g. bar, line, bar race, area)
 - v. Share, embed, and download functionality
 - vi. Integration with the existing built-in administrator dashboard to regularly change the default data and parameters
- c. Other additional feature
 - i. Embed a Power BI visualization in the existing Homepage and Scenario 3
 - ii. Additional custom post type pages for article and insight
- d. Post-development services:
 - i. Develop a user manual and short training for the relevant staff and system administrators to perform the content upload, system maintenance, and administration.
 - ii. Support maintenance, administrative and technical support, and quality control for 1 year after the website goes live in November 2025
 - iii. Source code handover

D. Proposal Guideline & Submission

The potential service provider has to submit a proposal package, which consists of a technical proposal (background, task to be conducted, methodology, schedule), a cost proposal (proposed manpower total rate and other costs), and relevant resume(s) & portfolio, if any. All bidders are also required to submit administrative bidding documents, which can be downloaded through this link s.id/documentsrfpcommsiesr

The submitted proposals must be signed by said individual or an official agent or representative of the submitting organizations. Please itemize all costs and include a description of associated services. Contract terms and conditions will be negotiated upon selecting the winning bidder for this RFP.

If the 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 consist of any outsourced or contracted work. Any outsourcing or contracting organization must be named and described in the proposal.

Proposals will be accepted until **23:59 PM**. Indonesian Western Standard Time (WIB, GMT+07) on **Wednesday, 28 May 2025**. Any submissions received after this date and time will be regarded as inadmissible.

Kindly address the Program Manager Energy System Transformation IESR, Deon Arinaldo, at deon@iesr.or.id, the Clean Energy Hub Coordinator, Irwan Sarifudin, at irwan@iesr.or.id and CC Website & Digital Asset Officer Alif Fitrah at alif@iesr.or.id and Energy System Transformation program officer Reananda Hidayat at reananda@iesr.or.id for inquiries and submissions. Please put **"RFP Response - Web Captive"** in the subject line.

E. Budget

IESR intends to make one award for the execution of this project. The final award amount will be contingent on the submission of a detailed and reasonable proposal to be approved by IESR. Expected award to range from **IDR 80 to IDR 110 million**.

All proposals must include proposed costs (in Indonesian Rupiah/IDR) to complete the tasks described in the project scope. Costs should be stated as one-time or non-recurring costs (NRC). Any research activity, survey, data subscription, software/licensing, and or other recurring add-on services' costs should be stated clearly and should be included in the said proposed budget & budget range. The additional cost might get excluded and exceed the award range only if there is a clear & reasonable justification.

IESR intends to pay the selected contractor on a fixed-fee, milestone-based payment schedule. Shall applicants prefer an alternate payment timeline, the applicants should propose a fixed fee and separate the total hours and amounts associated with the planning, collecting, processing,

and performing analysis of said data, the sum of which would be the total Maximum Payable Amount (MPA) for the contract.

F. Timeline for Deliverables & Remuneration

Deliverables	Timing	Payment*
1. Presented the work plan and timeline of website development	19 June 2025	30%
2. Presented website dummy or first demonstration	21 August 2025	
3. Second demonstration, which includes improvement from the trial-and-fix session	19 September 2025	
4. Final Website Design	17 October 2025	60%
5. Back-end module and training	25 October 2025	
6. Report and results of website trial-and-fix during a period of performance and maintenance	Once per quarter	
7. Payment for post-development maintenance	December 2025	10%

*Payment terms are negotiable upon the contract's award

G. Qualification

- Experience in Management Information Systems, or related field and website development or related certificate
- Experience in website development and maintenance
- Strong web project coordination
- Experience in solving issues of browser/device compatibility to create web pages that can be used on any type of server and viewed with any browser/device.
- Sound of good knowledge of improving user experience

H. Proposal Evaluation & Other

The service provider will be selected based on full and open competition. The proposal will be evaluated based on:

- **Organization profiling 30 %**
Technical capacity, expertise, experience, portfolio, highest contract value, experience in working with IESR
- **Technical proposal 50%**
Clear understanding and suitable work approach, work allocation, timeline, Additional idea on top of RFP deliv

- **Reasonable proposed value and competence 20%**

Team member experience & education level, ratio of proposed value to estimated value

IESR may, at its discretion and without explanation to the prospective Vendors, at any time choose to discontinue or extend this RFP without obligation to such prospective Vendors.

Awarding of the contract resulting from this RFP will be dependent upon the suitability of proposals received and the funds available. The RFP process is open to all individuals and or vendors, including those who have previously worked with IESR.