Request for Proposal (RFP)

LCOE Web Tool Update

Institute for Essential Services Reform
Tebet Barat Dalam VIII No. 20A-B
Jakarta Selatan
Indonesia

22 Maret 2022

Background

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

As part of IESR's policy advocacy and as an effort for IESR advocacy and to increase public awareness, a publication on the levelized cost of energy (LCOE) was launched in 2019. The levelized cost of electricity (LCOE) analysis is a commonly accepted tool in comparing the economics of different power plants. IESR's LCOE publication focuses on utility scale renewable energy and fossil fuel power plants. The publication findings were also presented in a web tool format where users can compare LCOE of various technologies and perform a sensitivity analysis based on certain predetermined parameters.

As powerplant-related technologies continue to evolve and various policies actively change the landscape and economics of energy, therefore there's a need to update IESR's LCOE publication and the derivative tool to reflect the current development and provide insightful projections. The findings and subsequent web tool could reinforce a more quality, fact-driven discussion on the feasibility of the energy transition policy and determine whether the policy currently proposed is the optimal choice for the future of Indonesia.

Objective

- The objective of this project is to create an engaging and intuitive visualization and analytics platform both from the user and admin perspective
- The platform shall have an easy-to-navigate interface including a mobile friendly design approach.
- The platform should be built in modular packages, so as to allow for further development in the future

Proposal Guidelines

Proposals will be accepted until 12:00 p.m. Indonesian Western Standard Time (WIB, GMT+07) on Wednesday, 11 May 2022. Any submissions 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.

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.

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.

Deliverables

1. The LCOE web tool and the app should represent IESR brand image and follow its visual guideline
2. The LCOE visualization and analytics platform should integrate the following tools and features
    a. LCOE and LCOS calculator which could take input (default or from user) and show the LCOE output (the data and calculation will be provided by IESR)
    b. A sensitivity analysis for specific technology datasets
    c. A list of additional case/policy intervention (pre-defined) that could be selected by users
    d. A custom dashboard where user could play and choose which data to show and compare
    e. A built-in administrator dashboard to regularly changes the default data and parameters
    f. Diverse and effective visualization including but not limited to column/bar, bar race, table, line, line with area
    g. Filter, sorting, and legend functionality
    h. Linking function i.e. to add or subtract single or multiple corresponding dataset(s) or variable(s) in a visualization with aim of comparings data set
    i. Projections function to highlight or hide certain data on specific time axis
    j. Contextual pop-up/tooltip or identifying feature i.e automatic appearance of an identifying label when the cursor hovers over a particular plot element.
    k. Scaling feature to change a plot's aspect ratio, revealing different data features, and zooming in and out on dense regions of a visualization.
    l. Share, embed, download functionality
    m. Security including auto backup measures to prevent hijacking
    n. A modular approach to enable additional features in the future
3. Develop a user manual and short training to the relevant staff and system administrators to perform the content upload, system maintenance, and administration.
4. Support maintenance; administrative and technical support, quality control for 1 year after the website goes live
5. Source code handover

Timeline

Proposals will be accepted until 10:00 p.m. Indonesian Western Standard Time (WIB, GMT+07) on Wednesday, 11 May 2022. Kindly address Program Manager Energy Transformation IESR, Deon Arinaldo, at deon@iesr.or.id (CC: irwan@iesr.or.id) for inquiries and submissions.

Evaluation of proposals will be conducted from 11 to 16 May 2022. Top qualified service providers from the proposed document and quotation will be shortlisted and a follow up session will be conducted within this time window to obtain any necessary clarification on items described in the proposals.

The selection decision for the winning bidder will be made by 22 April 2021. Upon notification, the contract negotiation with the winning bidder will begin immediately and must proceed extra quickly to meet the project timeline.

Deliverables	Timing	Payment*
1. Presented work plan and timeline of website development	21 May 2022	
2. Presented website dummy or first demonstration	9 June 2022	
3. Second demonstration, which includes improvement from the trial-and-fix session	16 June 2022	
4. Final Website Design: Final deployment for the online learning website	23 June 2022	80%
5. Back-end module and training	30 June 2022	10%
6. Report and result of website trial-and-fix during a period of performance and maintenance	November 2022 January 2023 April 2023 June 2023	
7. Payment for post-development maintenance (year 1)	June 2023	10%

*Payment terms are negotiable upon the contracts award

Budget

IESR intends to make one award for the execution of this project. The final award amount will be contingent on submission of a detailed and reasonable proposal to be approved by IESR. Expected award to range from IDR 55 to IDR 75 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). Hosting and domain services should be included in the proposed budget.

IESR will be the sole proprietor of the website and all software/licensing required to build the site will be directly covered by the aforementioned budget. Contractor should make recommendations on all technology required for developing and managing the website (CMS, hosting/server, domain name) based on project need and expertise.

IESR intends to pay the selected contractor on a fixed-fee, milestone-based payment schedule. Shall applicants prefers an alternate payment timeline, the applicants should propose a fixed fee

and separate the total hours and amounts associated with the Planning and Design/Discovery Phase, Web Development Phase, and Management and Maintenance Phase, the sum of which would be the total Maximum Payable Amount (MPA) for the contract.

Required Skills and Experience

1. Experience in Management Information Systems, or related field and a web site development or related certificate
2. Experience in website development and maintenance
3. Strong web project coordination
4. 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.
5. Familiar with programing language PHP
6. Sound of good knowledge of improving user experience

Proposal Evaluation

The service provider will be selected based on full and open competition. The potential service provider has to submit a proposal package, which consists of a technical proposal (background of the program, task to be conducted, methodology, schedule), cost proposal (proposed monthly rate), CV and web development portfolio. The proposal will be evaluated based on:

- Qualification 50 %
- Experience 30 %
- Methodology 20 %

IESR may, at its discretion and without explanation to the prospective Vendors, at any time choose to discontinue 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 funds available. The RFP process is open to all vendors including those who have previously developed web or online platforms for IESR.