
**UNITED REPUBLIC OF TANZANIA
ZANZIBAR ENERGY SECTOR TRANSFORMATION AND ACCESS PROJECT.**

**REQUEST FOR EXPRESSIONS OF INTEREST
FOR
DEVELOPMENT OF THE ENERGY DATABASE SYSTEM**

CREDIT NUMBER: 68970-TZ

**CTF LOAN NUMBER: TFOB5747-TZ CTF GRANT NUMBER: TF0B5660-TZ Assignment Title:
Development of the Energy Database System.**

Reference No. TZ-MOWEM-455669-CS-COS

The Revolutionary Government of Zanzibar (RGoZ), through the United Republic of Tanzania, has received financing from the World Bank toward the cost of the Zanzibar Energy Sector Transformation and Access Project (ZESTA), and intends to apply part of the proceeds for consulting services.

Objective of the Assignment

The objective of this assignment is to develop a robust, secure, and user-friendly Energy Database System that centralizes data from various energy sources, provides data analytics and visualization tools, and supports energy policy decision-making.

The system should be designed with scalability, interoperability, data integrity, and security as key considerations. Additionally, it should be capable of handling large datasets, integrating with existing energy management platforms, and providing tools for detailed data analysis and reporting.

Scope of Work

The selected firm will be responsible for delivering the following tasks:

Task 1: System Design and Architecture

- Assess current energy data management practices and infrastructure.
- Define system architecture, including database structure, storage options, and hardware requirements.
- Ensure scalability to accommodate future data growth and integration with other systems.
- Design user interfaces and workflows for data input, management, and reporting.

Task 2: Data Collection and Integration

- Identify and integrate data from diverse sources (generation, consumption, distribution, energy efficiency, renewable energy projects, etc.).
- Implement data collection mechanisms, including APIs, ETL processes, and manual data input forms.
- Ensure real-time data access for key stakeholders and automated data updates.

Task 3: Development of the Energy Database System

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- Develop a centralized energy database with appropriate relational or non-relational structures.
 - Ensure compliance with industry existing database systems.
 - Implement functionalities for querying, data visualization, and reporting.
 - Provide real-time dashboards for monitoring key performance indicators (KPIs) and analytics.

Task 4: Data Security and Compliance

- Implement robust data security protocols, including encryption, access controls, and user authentication mechanisms.
- Ensure compliance with data protection regulations (GDPR or local equivalents).
- Set up regular backups, disaster recovery, and failover mechanisms.

Task 5: User Training and Documentation

- Develop training materials and deliver training sessions for users, administrators, and stakeholders.
- Provide detailed system documentation, including user manuals, technical specifications, and maintenance guides.

Task 6: Maintenance and Support

- Provide post-implementation support and maintenance for at least 12 months.
- Implement a ticketing system for issue tracking and resolution.
- Develop and execute a system performance monitoring and optimization plan.

The Ministry of Water, Energy and Minerals now invites eligible consulting firm to indicate their interest in providing the above services. Interested consulting firm should provide information demonstrating that they have the required qualifications and relevant experience to perform the services. The consulting firm (or consortium of firms) should have at least the following qualifications and experience:

The consulting firm is required to have the following experience:

(A) Core Business and year in Business At least ten (10) years' experience in consulting work of which five (5) years must be in similar assignments.

(B) Relevant similar experience, which should specifically include the following:

- i. Have successfully implemented at least three (3) similar projects in database system development, preferably in the energy sector in the Sub-Saharan Africa region.
- ii. Provide information on previous assignments which should include the name of the assignment, name and full contact address of the client, tasks performed by the consultant under the assignment, assignment value (in US dollars), and period (dates) of execution of the assignment.

(C) Technical and Managerial capability of the firm in the areas of Development of the Energy Database System. (Provide the structure of the organization, qualifications, and number of key staff

for the assignment and their CVs).

The attention of interested consulting firm is drawn to Section II1, paragraphs, 3.14, 3.16, and 3.17 of the World Bank's "Procurement Regulations for IPF Borrowers" November 2020, setting forth the World Bank's policy on conflict of interest. Firms intending to submit expression of interest should not have conflict of interest and unfair competitive advantage as per Bank's Procurement Regulations.

Consultants may associate with other firms in the form of a joint venture or a sub-consultancy to enhance their qualifications. For firms participating in JV, each member of JV should independently meet the requirement of Eol criteria. For firm participating as association of lead and subconsultant, only the experience and qualification of lead firm will be assessed as per Eol criteria

A Consultant will be selected in accordance with the Consultant Qualification Selection (COS) set out in the Procurement Regulations. (The detailed Terms of Reference (TOR) for the assignment can be Obtained upon asking through Email: (proc.zesta@majismz.go.tz and copy to saleh.suleiman@majismz.go.tz)

Further information can be obtained at the address below during office hour, 07:00 to 03.30pm East African Time.

Expressions of interest must be delivered in written form to the address below: (Both hard copy along with Soft copy by **26th February 2025** at 10:00 am local Time).

Ministry of Water Energy and Minerals ZURA building 5th floor, Procurement Unit, Room No. 502.
Attn: Saleh Said Suleiman (Project Coordinator) P.O. Box 1569 Zanzibar Maisara, Zanzibar E-mail: proc.zesta@majismz.go.tz and copy to saleh.suleiman@majismz.go.tz

Note: Submission of Softcopy only will not be considered in opening ceremony and any difference in hard and soft copy, the information in hard copy will be used for evaluation.

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