Terms of Reference

Consultant for Comparative Study on Energy Efficiency Policy & Practices

Full title: Consultant for in-depth comparative study among neighbouring countries of good policy framework, regulation and practices on application of energy efficiency practices

Supervised by: Tha Bar Wa Project Manager

Work location: Home-based with a few online interviews

Duration: 15 June 2020 – 31 August 2020

WWF Myanmar is looking for a Consultant to support a comparative analysis of good Energy Efficiency policies and measures in the industrial sector, including esp. the Food and Beverage (F&B) Industry, in neighbouring countries, and the development of recommendation for the Government of Myanmar based on its findings.

1. Background and rationale

WWF Myanmar was established in 2013 and is working to conserve the country’s biodiversity and build a sustainable future for people and wildlife. The focus is on promoting green economy within national policies, and sustaining and protecting biodiversity and ecological connectivity of the landscape through an integrated landscape approach, and the Ayeyarwady river basin through an integrated river basin approach. Find out more at www.wwf.org.mm

The manufacturing sector in Myanmar is at a cross-roads: whilst industrial development is progressing and remains critically important for economic growth, if not managed responsibly, it will have significant negative impacts on the country’s natural environment and undermine Myanmar’s long-term sustainable development. Accounting for over 60 percent of registered businesses in the entire industry, the Food and Beverage industry plays a significant role in this process.

On the Tha Bar Wa project. In order to support the Food and Beverage sector, WWF is implementing Tha Bar Wa project. The project is a four-year project which started in 2018, funded by the European Union under the SWITCH-Asia Programme. The project is implemented by WWF in partnership with Myanmar Food Processors and Exporters Association (MFPEA) and Savings Banks Foundation for International Cooperation (SBFIC).

The project promotes cleaner production in Myanmar’s growing Food and Beverage sector, specifically in the small and medium-size enterprises. The project’s overall objective is to improve & demonstrate an enabling environment for cleaner production. Hence, the project strives to improve environmental policies, build capacities of industry, its service market and government for cleaner production and pilot green finance products by 2022.

The project supports Myanmar’s Ministry of Industry (MoI), Ministry of Natural Resources and Environmental Conservation (MoNREC), Yangon City Development Committee (YCDC), Department of Research and Innovation (DRI), Yangon Technological University (YTU), Mandalay
Technical University (MTU), Industrial Zone Committees, Union of Myanmar Federation of Chambers of Commerce and Industry (UMFCCI), Mandalay City Development Committee (MCDC) and Small and Medium-sized Enterprises (SMEs) and industrial zones of the F&B sector, local banks, communities living near industrial zones, local industry associations and business intermediaries.

The case for energy efficiency. According to government data, traditional biomass (70%) has the largest share in primary energy supply, followed by natural gas (18%), oil (9%), hydropower (2%) and coal (1%). In terms of electricity generation (2010-2011), hydropower (72%) has the largest share followed by natural gas (23%), coal (5%) and oil.

In 2017-18 alone, the MOEE estimated that the nation’s electricity demand would hit 3,100 megawatts. This clearly explains that the demand are growing fast and supply is limited. Myanmar, however, does not lack engineering or technical capacity. Rather, the nation lacks the capacity and structural foundation needed to adequately define, plan and build consensus behind a coherent national electrification and energy strategy. The above implies that scaling up energy efficiency in the manufacturing sector will be all-important to ensure industrial energy demands can be met sustainably, allowing for further economic growth while accounting for households’ energy needs as well as climate protection.

The legal framework for industrial environmental performance. The government issued regulations requiring industrial operations to develop and implement Environmental Management Plans (EMP) (Environmental Conservation Law No.9/2012, Environmental Conservation Rules Notification No. 50 / 2014, Environmental Impact Procedure Notification No. 616 / 2015); the F&B sector is one of nine sectors prioritised for the implementation of these provisions. Additionally, Ministry of Industry (MoI) is in the process of finalizing a policy geared to improve energy management and efficiency in industry, which foresees the development of mandatory energy management plans by industries; this policy to be implemented in future. Hence, there is also a need for businesses to fulfill Government requirements.

One of the project deliverables is to support MoI in designing a policy promotion program for energy efficiency in the country.

2. Consultancy objectives

In line with the above-mentioned deliverable, WWF aims to contract an in-depth comparative study among East, South, and South-East Asia countries of good individual policies and policy frameworks/mixes geared at promoting energy efficiency in the industrial/manufacturing sector. Good examples from other continents can be included in agreement with the contractor if their replication or adoption is feasible in the context of emerging economy and political context of Myanmar. The analysis should cover all types of policies - including regulation and standards, economic incentives, awareness-raising, capacity-building and monitoring mechanisms – and should assess policy effectiveness in light of their known performance (successes/challenges) that is steering effects on practices on application of energy efficiency practices in the industry, including in the food and beverage sector. Drawing lessons learned from the assessment and comparison of such policies, this study should provide recommendations for an energy efficiency promotion program/policy framework for the consideration of the government of Myanmar.
3. Scope of work

The consultant is expected to provide a detailed methodology and timeline for this study, within the timeframe specified above. The consultant will identify at least three countries as explained above for the study and, based on the comparison with Myanmar’s existing policies and practices, will suggest recommendations for an energy efficiency promotion program or policy mix for the industrial sector; specific attention should be given to the F&B sector, as appropriate. Methodologically, this study will involve a thorough desk research and to validate some of the data and information, a few interviews might be required that can be either done through phone or online. Travel is not foreseen under the contract.

The consultant needs to develop an inception report including a) a detailed work plan with b) a timeline and c) the analysis grid or list of criteria suggested for the comparison, d) a list of suggested policies / policy frameworks to be included in the comparison and a reasoning for the selection and e) a suggested structure (or Table of Contents) of the study, within 15 days of signing a contract and submit it to the contractor for approval. The proposed selection will be agreed with the contractor as part of the finalisation of the inception report.

A. Output and deliverables

- A detailed inception report
- Draft report
- Final report, including the revised text and an invoice

The study should present:
- The goals/intention of the study;
- The methodology applied;
- The criteria for comparison and a justification of the policies selected for analysis based on these criteria;
- A detailed analysis of the policies/ policy frameworks,
- Recommendations for the development of a policy (framework) for energy efficiency promotion in the industrial sector in Myanmar

Targeting policy-makers, the report should be easily accessible in structure and language, the body not exceeding 20 pages (further detail may be included in annexes), and should offer the most important insights and recommendations in an executive summary for decision-makers.

B. Required Profile and other requirements

Essentials:
- Extensive experience and relevant formal qualifications in the energy efficiency and energy management field: assessment, implementation of energy efficiency measures, review and audit.
- Demonstrated experience in conducting energy efficiency assessments and energy audits in industry, as well as designing and delivering trainings on energy efficiency and audits relevant to industry, specifically to the food and beverage industries; experiences in Myanmar are a strong asset.
- Experience in practical factory visits and validating, reviewing and monitoring energy management.
- Previous experience in assessment on energy efficiency for cleaner production in Myanmar is a strong advantage.
- Knowledge of production, pollution parameters and level of impacts of different sub-sectors within F&B industry
- Fluency in English.
- Experience in writing similar reports and preparing knowledge products, specifically in the analysis of legal frameworks for energy efficiency.
- Previous similar work experiences in East, South, and South-East Asia countries is strongly preferred.

Desirables:
- Candidate with work experience in Myanmar strongly preferred
- Knowledge of the Myanmar language is an advantage.

Equipment, services and facilities:
The contracting authority will not provide office accommodation of a reasonable standard and size to the contractor(s). Office accommodation for each expert working on the contract is to be provided by the contractor. The contractor shall ensure that experts involved with this contract are adequately supported and equipped. It must also transfer funds as necessary to support their work under the contract and to ensure that its employees are paid regularly and in a timely fashion. Any equipment the contractor needs to fulfil the obligations under this contract, such as a laptop, audio recorder or other IT devices, will have to be provided by herself/himself, the principal will not make these available. No equipment is to be purchased on behalf of the contracting authority as part of this service contract.

Bid documents:
Clearly stating their fit for this position (incl. documentation of relevant qualifications and prior experience), together with a financial offer and CVs of all experts to be involved with the contract either by email to: vacancy.mm@wwf.org.mm or by post / delivered to: WWF Myanmar, 15C Than Taman Street, Dagon Township, Yangon.

The financial offer must be presented as an amount in USD and must include a break-down of the consultancy fee and any incidental expenditure incurred e.g. through telecommunication fees).

The maximum budget available for this contract is X USD. Payments under this contract will be made in the currency of the tender.

The applicable tax arrangements will be deduce based on WWF’s Myanmar and Government fo Myanmar tax policy.

For additional information or clarification, the bidder can email to ujjwal.pokhrel@wwf.org.mm.

Only shortlisted applicants will be contacted.