

Terms of Reference

Consultancy Support for the deployment and investments in district energy systems

1. Background

The UN Secretary-General convened a summit on September 2019 to mobilize political and economic dynamism at the highest levels to advance climate actions that enable implementation of many of the goals of the 2030 Agenda for Sustainable Development. "Cities and Local Action" is one of the action portfolios that is included in the programme, to ensure that the transformative actions in the real economy are as impactful as possible. Advancing mitigation and resilience at urban and local levels, with a focus on new commitments on low-emission buildings, transport and urban infrastructure and resilience for the urban poor are few examples of the relevance that the local action would entail.

In this context, district energy is recognised as one of the main city-level options that could play an important role, enhancing the overall energy efficiency movement and contributing to the achievement of the targets set forth in the Nationally Determined Contributions in the framework of the UNFCCC Paris Climate Agreement, as well as to the UN Sustainable Development Goals.

Under an agreement between the Danish Ministry of Foreign Affairs, UN Environment and the Technical University of Denmark, the Copenhagen Centre on Energy Efficiency (hereafter the 'C2E2') acts as a global energy efficiency hub for SEforALL and performs coordination activities between the energy efficiency 'Accelerators' on its behalf. These activities include knowledge sharing, technical backstopping, and promotional activities. The Ministry of Foreign Affairs of Denmark continues to recognise the value and the need for the work of the C2E2 by recently committing another round of funding for the period 2018-2021 of forty million Danish Kroner.

2. Objectives

The consultancy should support the District Energy(DES) team in C2E2 to develop reports, training modular and other documents under the requirements of GEF-6, BMCF and other program. The consultancy will also support to the work of the District Energy in Cities Initiative under UNEP through C2E2.

3. Scope of Work

The consultant will support the work-stream of District Energy team in C2E2 and contribute to the achievement of the centres' goals and targets by providing support in the following areas:

- 1) Assist to undertake rapid assessments on the potential of district energy in selected cities;

- 2) Assist to undertake “deep assessments” in pilot cities that identify short and long-term technical and financial potential of district energy, analyse barriers to project development, and identify potential policy options to unlock action;
- 3) Assist to conduct pre-assessments of city potential and opportunities in focus regions and countries;
- 4) Assist to develop best practice guidance to be used for replication for wider use;
- 5) Assist to supervise students working on District Energy;
- 6) Assist to initiate, contribute to, and/or lead resource mobilization activities, including project concept development and preparation of project proposals;
- 7) Assist to cultivate and maintain effective international networks and partnerships with country partners, partner agencies, finance institutions and private sector;
- 8) Assist to prepare reports and materials to donors, including but not limited to GEF-6.

4. Terms of employment

UDP is part of the Department of Management at the Technical University of Denmark and employees are university staff. The successful candidate will be employed in a full-time position according to the collective agreement with the Confederation of Professional Associations.

The place of work is the UN City based in Copenhagen, Denmark. We apply a dialogue-based Scandinavian management style and we offer a family friendly work place with a documented positive work environment where there is room for a good work-life balance for our staff.

5. Qualifications and Skills

The appointed consultants should have:

- Master degree (desirable)
- More than 5 years of experience in research and project management within the field of energy efficiency in the sectors of district energy and/or buildings.
- Experience from pre-feasibility studies to design and construction in district energy system and/or building energy efficiency, especially for sustainable communities and/or nearly zero energy buildings.
- Fluent in English, Spanish and/or German.
- Experience in education and/or supervision of master student thesis (preferable)

6. Working Arrangement

The consultant will be retained on a contract with the C2E2 and payments on a monthly basis. The consultant will work under the supervision of Dr. Zhuolun Chen in C2E2.

7. Language

All outputs should be prepared and submitted in English, as required, to the Copenhagen Centre for Energy Efficiency.

8. Time for completion

Four months with possible extension, starting from 10th Feb., 2020.

9. Confidentiality and ownership of results

The contracted consultant is obliged to maintain confidentiality regarding the activities they carry out. The presentations and training materials generated, and all products related to the object of the present contract will be the exclusive property of C2E2. Any publication or dissemination that the consultant requires to do on joint works, may only be executed after authorization of such by C2E2 and the UNDERSECRETARIAT OF RENEWABLE ENERGY AND ENERGY EFFICIENCY.