

## TERMS OF REFERENCE.

### FOR THE LOCAL CONSULTANT.

#### GEOTHERMAL TECHNOLOGIES CONSULTANT OF GCIP MOLDOVA.

<b>Title:</b>	<b>Local Consultant. GEOTHERMAL Technologies consultant</b>
<b>Main Duty Station and Location:</b>	<b>Moldova</b>
<b>Mission/s to:</b>	<b>To be approved separately as required</b>
<b>Start of Contract (EOD):</b>	<b>TBC</b>
<b>End of Contract (COB):</b>	<b>TBC</b>
<b>Contract Type:</b>	<b>Regular</b>

### ORGANIZATIONAL CONTEXT

The Public Institution National Center for Sustainable Energy, hereinafter referred to as PI NCSE, is a governmental institution in Moldova, subordinated to the Ministry of Energy, which is the central body responsible for energy sector. PI NCSE, generally, is responsible for co-designing and implementing of state policies aimed to improve energy efficiency and promote renewable energy sources. PI NCSE participates in drafting of national programs, action plans, and normative acts, including technical regulations and standards in the field of renewable energy and energy efficiency, develops minimum energy efficiency requirements for devices and equipment produced in, or imported to Moldova and drafts innovative programs promoting energy efficiency and renewable energy as well as assists the central and local public authorities in preparing such programs. The PI NCSE has been selected as the main executing entity of GCIP Moldova, that is responsible for recruiting the project management personnel to the PMU. The PMU will manage, monitor, and evaluate project activities.

### PROJECT CONTEXT

The United Nations Industrial Development Organization (UNIDO), with its unique mandate to support inclusive and sustainable industrial development, has partnered with the Global Environment Facility (GEF) to address the most pressing global environmental challenges of our time. Through fostering innovation and entrepreneurship ecosystems, UNIDO and GEF seek to promote affordable and scalable solutions, enabling countries to leapfrog to climate and clean energy technologies (cleantech) through the Global Cleantech Innovation Programme (GCIP).

GCIP fosters an ecosystem approach that supports cleantech innovations in existing and new SMEs and startups through the provision of catered tools and methodologies that enhance their productivity and competitiveness while promoting a supportive policy and regulatory framework on a national level. The GCIP takes a competition-based approach (accelerator) to identify a pool of promising entrepreneurs and it supports them through ongoing mentoring, webinars, and networking events, in order to grow their innovative ideas and concepts into fully-fledged products and services that will be ready to enter the national and global markets.

The GCIP is comprised of three programmatic pillars that are interlinked as described below:

- Pillar 1 (*acceleration and investment facilitation*) focuses on the identification and growth of start-ups, with interventions targeting the private sector (enterprises).
- Pillar 2 (*cleantech ecosystem strengthening and connectivity*) aims to support the national ecosystems with intervention targeting national institutions, ministries, financial institutions, and other key national stakeholders, as well as facilitate collaboration among the ecosystems.
- Pillar 3 (*program coordination and coherence*) provides strategic guidance for efficiency and effectiveness in achieving impact among GCIP countries, with interventions designed to enhance coordination among GCIP project teams at national and global levels, and with project executing partners

Under the GCIP Framework, the „Clean technology innovation program for SMEs and start-ups in the Republic of Moldova” (GCIP Moldova) is developed to support Moldova’s cleantech enterprises (SMEs and start-ups), to develop and scale up its solutions and to scale up the market adoption of cleantech innovations, thus leading to a reduction in GHG emissions and resource consumption. Furthermore, the project will facilitate increase of investment, job creation, and cleantech market development. The focus of the project will be on enhancing institutional, market, and ecosystem capacities to support emerging clean technology start-ups and strengthening policy frameworks and mechanisms for technology innovation in and by SMEs. By using a cross-sectoral and multi-tiered approach to build a sustainable conducive business environment for cleantech innovation and entrepreneurship, the project’s approach will combine a competition to identify the most promising innovation entrepreneurs (start-ups and SMEs) across the country with a local business acceleration program, which will support and de-risk selected entrepreneurs/companies and will connect them with potential investors, customers, and partners.

To this end, GCIP Moldova consists of three components, in line with the above-described three programmatic pillars, as outlined below:

- **Component 1:** *Transforming early-stage innovative cleantech solutions into scalable enterprises.*  
Component 1 aims to provide direct support to early-stage enterprises to enhance their capacity and competitiveness, and to leverage market opportunities.  
More specifically, outcome 1.1 focuses on entrepreneurial training and business acceleration support, and Outcome 1.2 focuses on advanced business growth and investment facilitation services to the cleantech enterprises at growth stages that demonstrate market traction and sales evidence, and can benefit from specialized support.
- **Component 2:** *Cleantech innovation and entrepreneurship ecosystem (CIEE) strengthening and connectivity.*  
The policy framework and institutional capacity are integral parts of GCIP’s „ecosystems approach”, and of strategic relevance in ensuring that the outputs and outcomes of the project are contributing to the national priorities and are sustained after the project closure. Therefore, the objective of Component 2 is  
to build the capacity of the PI NCSE and other key CIEE stakeholders at local and national levels in Moldova to engage in cleantech acceleration and commercialization. Further, the GCIP Moldova will assist the government in improving of national policies and regulations, that are conducive to cleantech innovation and commercialization.
- **Component 3:** *Programme coordination and coherence.*  
The activities under Component 3 aim to ensure that the achievements of the GCIP Moldova are captured and communicated globally, as well as that the GCIP Moldova and other GCIP country projects are implemented in a coherent and coordinated way. To this purpose, PI NCSE is expected to collaborate with the GCIP Framework through the global PEEs, as well as to contribute to information gathering, knowledge sharing, and dissemination efforts.

## **FUNCTIONAL RESPONSIBILITIES**

Component 1. Outcome 1.2. Output 1.2.1

### **Conducting a desk research analysis on geothermal technologies:**

1.2.1e. Carrying out a screening at the level of normative acts (laws, Government decisions, construction regulations, etc.), which support the promotion of the use of geothermal heat pumps (soil-water or water-water type)

**Deadline:** October 2024

1.2.1f. Identification and review of the available information regarding geothermal potential and presentation of first results.

**Deadline:** October 2024

1.2.1g. Conducting a desk analysis on the potential area/locations for geothermal energy generation based on the other geological related researches.

**Deadline:** November 2024

1.2.1h. Identification of barriers regarding the promotion of geothermal pumps at the national level.

**Deadline:** November 2024

1.2.1i. Elaboration of a road map regarding the promotion of the use of geothermal pumps at the national level.

**Deadline:** November 2024

1.2.1j. Keeping close communication with the working group established by the Ministry of Energy.

**Deadline:** September - December 2024

1.2.1k. Presentation of the results obtained in an organized public event.

**Deadline:** December 2024

## **RESULTS FRAMEWORK**

### **Output 1.2.1**

- A mapping report of the normative acts, which support the promotion of geothermal heat pumps carried out.
- A report on available information regarding geothermal potential.
- A mapping report on the potential areas/locations for geothermal energy generation.
- A report identifying the barriers regarding the promotion of geothermal pumps at the national level elaborated.
- A roadmap developed.

- A presentation of the results carried out.

## **MINIMUM ORGANIZATIONAL REQUIREMENTS**

**Education:** Advanced university degree (Master's degree) in engineering, sciences, economics, law, business administration, international relations, or other relevant discipline is **required**.

### **Technical and Functional Experience:**

- At least five (5) years of professional experience in renewable energy and energy efficiency projects.
- Previous experience in development assistance or related work for a donor organization, development partners, and UN Agencies.
- Extensive knowledge of cleantech, training, financing, business development, and project management.
- Experience working on similar assignments.
- Demonstrated experience in the field of innovation and/or energy project development.
- Demonstrated track record of relevant work in the mentioned area.
- Excellent communicator and excellent presentation skills.
- Very good conceptual and writing skills.
- Awareness of gender issues in the field of cleantech innovation

**Languages:** Fluency in written and spoken English and Rumanian is **required**. Fluency and/or working knowledge of other UN languages is **desirable**.

## **REQUIRED COMPETENCIES**

### ***Core values:***

**WE LIVE AND ACT WITH INTEGRITY:** work honestly, openly, and impartially.

**WE SHOW PROFESSIONALISM:** work hard and competently in a committed and responsible manner.

**WE RESPECT DIVERSITY:** work together effectively, respectfully, and inclusively, regardless of our differences in culture and perspective.

### ***Key competencies:***

**WE FOCUS ON PEOPLE:** cooperate to reach our full potential –true for our colleagues and clients. Emotional intelligence and receptiveness are vital parts of our identity.

**WE FOCUS ON RESULTS AND RESPONSIBILITIES:** focus on planning, organizing, and managing our work effectively and efficiently. We are responsible and accountable for achieving our results and meeting our performance standards. This accountability does not end with our colleagues and supervisors, we also owe it to those we serve and who have trusted us to contribute to a better, safer, healthier world.

**WE COMMUNICATE AND EARN TRUST:** communicate effectively with one another and build an environment of trust where we can all excel in our work.

**WE THINK OUTSIDE THE BOX AND INNOVATE:** To stay relevant, we continuously improve, support innovation, share our knowledge and skills, and learn from one another.