



## International Center on Small Hydro Power

### TERMS OF REFERENCE FOR PERSONNEL UNDER INDIVIDUAL SERVICE AGREEMENT (ISA)

Title:	International Green Small Hydro Power(SHP) Policy Consultant for “Upgrading of China SHP Capacity Project” Project number: SAP 140196 - 01
Main Duty Station and Location:	Remote work with regular travels to China when necessary
Mission/s to:	Domestic travel to be defined based on work plan
Start of Contract (EOD):	Tbc
End of Contract (COB):	Tbc
Number of Working Days:	10 months
Apply By:	ASAP, no later than 15 July, 2019

#### 1. BACKGROUND

UNIDO in association with the Ministry of Water Resources (MWR) is currently implementing the project entitled Upgrading of China Small Hydropower (SHP) Capacity. The Project will focus on environmental upgrading of rural SHP stations in China, in line with the priorities of the Chinese Government, as outlined in the 12<sup>th</sup> FYP (five-year plan) 2011-2015.

For the first time, the Outline of 12<sup>th</sup> FYP for National Economic and Social Development has taken the reduction of CO<sub>2</sub> emission intensity per unit of GDP by 17% as a binding target, and further specified the key tasks for GHG emission control among other aspects. Since 2004, the central Chinese Government has listed rural hydro power development in its rural infrastructure construction tasks to further increase investments and loan input to support rural hydropower development.

The Project aims at supporting the SHP capacity expansion programme of the MWR, by reducing the environmental impact of SHP plants to better meet the challenges imposed by climate change. The objective of this project is to reduce GHG emissions and dependence on fossil fuels through the promotion of upgrading, greening and improving the management of existing SHP stations, contributing to the competitiveness of China's industries. Alongside important social and economic benefits, the project will improve local river ecology, hence contributing to adaptation of SHP plants to climate change. It is estimated that additional electricity of about 157,000 MWh per year will be obtained through the project activities, resulting in emission reductions of 2.2 m tCO<sub>2e</sub>. The project will transfer knowledge and technology in the field of green hydropower within China, leading to positive environmental impacts.

More specifically the project is structured in three technical components, plus a monitoring and evaluation component, as set out below:

***Component 1: Policy and institutional framework.*** This component will strengthen the policy and regulatory framework to effectively promote and support green SHP upgrading by the development of a Ministerial Standard on green SHP, through support for incentive measures as well as assisting in the roll out of the Safe Production SHP standards.

***Component 2: Technology Demonstration.*** This component will demonstrate technical feasibility and commercial viability of 24 green and safe upgraded SHPs at different capacities demonstrating a variety of environmental measures and safe production measures. Technical assistance and grants will be provided to facilitate the projects' development. These will build the confidence of both industry and the finance sector, create best practice examples to pave the way for replication, on the basis of experience gained reduced (perceived) risk and increase capacity and awareness at multiple levels, i.e. industry (both at operational and decision-making level) and finance.

***Component 3: Capacity building and increasing knowledge base.*** This component will strengthen the institutional capacity as well as address the insufficient technical capacity training, awareness and the development of knowledge products. Activities under this component will be implemented in parallel with components 1 and 2 on policy framework and technology demonstration in order to prepare for the scale up / mainstreaming of green and safe SHP within and beyond the project.

***Component 4: Monitoring and Evaluation.*** A two-pronged approach will be followed: 1) monitoring and evaluation against the GEF's strategic indicators and 2) monitoring and evaluation project specific technical indicators for outputs per component (components 1-3 as listed above). Ultimately this will provide an indication of the achievement of the goals that the project has set out to be achieved.

Primary target beneficiaries of the project are SHP owners, designers, policy-making and implementing institutions, primarily MWR and MEP, SHP associations, installers, training institutes, energy professionals and service providers and the financial sector.

## International Consultant at ICSHP

ICSHP will recruit international and national consultants to support the implementation of the project through their expertise in the field of green SHP technology, policy and regulation, as well as capacity building. Contributing to component 1, the international consultant will focus on supporting the development of a green hydro certification and labeling scheme; providing recommendations to national level ministries on the development of national policies; and supporting the local provinces and governments to launch preferential policies for green small hydropower. In all three areas, the work will include recommendations on gender mainstreaming in the related policies.

The consultants will report to the National Project Manager at the ICSHP.

Considering the large scope of these activities, the international consultant will be working closely with national consultants to successfully complete all activities. Coordination between international and national consultants will be facilitated through ICSHP. For this purpose, the international consultant will be required to regularly report on the progress of his/her work (See section 5. Reporting). The key roles of the international consultant are detailed below:

Post	Green SHP Policy Expert	Expected duration
Objective	Successful development of a green hydropower certification and labeling scheme; support of local governments to launch preferential policies for green SHP; and provision of recommendations to ministries on the development of national policies.	
Scope of Work	<ul style="list-style-type: none"><li>Support the development of a meaningful labeling system that aligns with the developed Green Small Hydropower Assessment Standard, which would lay the foundation for a future certification and trading system. Experiences from Europe will be used to help develop labels that are internationally acceptable.</li></ul> <p>In the near term, the labels would have a credibility and reputational value. In the future, this could be converted to a monetary value (this conversion would depend on the other preferential policies developed).</p>	60%

<ul style="list-style-type: none"> <li>• Research on all options for incentive policies and environmental regulations including capital subsidy for green SHP along with various tax and fee incentives (including tax reductions, exemptions, or deductible investment taxes). The policies should build upon the 13<sup>th</sup> Five-Year Plan SHP Capacity Expansion and Efficiency Improvement Project of the Ministry of Water Resources (MWR).</li> <li>• Propose an innovative business model for up-scaling of green SHP upgrading based on the research above;</li> <li>• Provide recommendations to the selected 8 local governments/provinces on preferential policies for green small hydropower that would encourage SHP owners to adopt green measures.</li> <li>• Conduct research on experiences and practices on environmental regulations in other countries to determine the policies best suitable in the Chinese context.</li> </ul>	20%
<ul style="list-style-type: none"> <li>• Provide recommendations for further initiatives to be developed at national level for green SHP to the Ministry of Water Resources and the Ministry of Environmental Protection.</li> </ul> <p>In all three areas, the work will include recommendations on gender mainstreaming in the related policies.</p>	20%

**2. QUALIFICATION, REQUIRED SKILLS AND EXPERIENCE**

- Established policy expertise in renewable energy and small hydropower with over 10 years of experience providing policy advice in relevant sector;
- Advanced university degree in public policy or in any related field with thorough understanding of green hydropower technology development;
- Previous experience working with international clients;
- Very good understanding of the policy-making process in China;
- Excellent report writing skills;

**Required Competencies**

**Core values:**

1. Integrity
2. Professionalism

### 3. Respect for diversity

#### ***Core competencies:***

1. Results orientation and accountability
2. Planning and organizing
3. Communication and trust
4. Team orientation
5. Client orientation
6. Organizational development and innovation

#### **Minimum Organizational requirements**

##### General:

- Master degree or PhD in renewable energy law, environmental law, public policy, economics, climate change, sustainable finance or other related disciplines;
- Full command of Microsoft Office software package (Word, Excel, Power Point and Project)
- Ability to communicate diligently and efficiently in cross cultural contexts;
- Ability to communicate complex information to wider audiences from different backgrounds

##### Professional:

- At least 10 years of working experience in research and policy development;
- Profound experience working with public institutions (national and local) or international organisations or multinational companies;
- Proven experience of designing incentive policies for renewable energy sources.

##### Specific:

- Excellent knowledge of international, European and national energy and environmental policies and regulations including INDCs under the Paris Agreement and GHG emission trading schemes;
- Good knowledge of Chinese regulatory process and governance structure;
- Knowledge of existing standards and protocols in the field of hydropower;
- Knowledge of the national SHP Capacity Expansion project under the 13<sup>th</sup> Five-Year-Plan of the Chinese government;
- Publications in the field of environmental law, renewable energy or hydropower policy.

##### Desirable Skills:

- Knowledge of both qualitative and quantitative research methodology would be preferred;
- Excellent command of at least one data analysis programme such as Python, STATA, R, Mat Lab is strongly desired;

### **3. LANGUAGES**

The candidate should have an excellent command of both written and spoken English. Knowledge of Chinese would be an asset.

### **4. DELIVERABLES**

The consultant shall deliver the following outputs:

- 1) Support the development of a labeling system aligned with the Green Small Hydropower Assessment Standard taking into account best practices from Europe and other countries on green SHP labeling and certification system;

- 2) Recommendations for the development and adoption of innovative incentive policies by provincial and local government departments in each of the 8 selected provinces, based on best practices from Europe;
- 3) Recommendations for the development and adoption of incentive policies and further initiatives on the national level for adoption by government departments including MWR and MEP;
- 4) A list of potential and effective domestic and international partnerships which could facilitate better results in further dissemination of green SHP policy in China, including a brief description, contact details of relevant persons, and scope of partnership.

In all deliverables, the work will include recommendations on gender mainstreaming in the related policies. Suitable means to make the information comprehensible to wider audiences will need to be identified.

The reports and related documents must be in English and presented in electronic format.

## 5. REPORTING

In addition to the “Deliverables”, the consultant shall meet the following milestones and reporting requirements towards his own work:

- 1) Methodology used: Please send us a brief plan of how you will proceed to execute the aforementioned tasks. The plan can be revised and updated after employment. The consultant is encouraged to report on any such updates.
- 2) Monthly progress report: summarizing findings, issues, challenges and recommendations related to the execution of the tasks.
- 3) Duty travel: the consultant will have to submit mission reports and related deliverables no later than three weeks after completion of the mission.
- 4) At the conclusion of the assignment the consultant shall submit a final report comprising of a summary of activities carried out with all deliverables prepared within the scope of his/her assignment attached to the report.

The reports and related documents must be in English and presented in electronic format.

## 6. PLAGIARISM

According to UNIS, plagiarism is defined as the representation, intentionally or unwittingly, of the ideas, words or work of another person without proper, clear and explicit acknowledgment. The use of translated materials, unless indicated and acknowledged, is also considered plagiarism (UNIS, 2014).

All written work submitted by the consultant needs to be original/authentic, with work or ideas of others fully acknowledged.

## 7. APPLICATION PROCEDURE

Submit the cover letter and a detailed CV to [secretariat@inshp.org](mailto:secretariat@inshp.org) copying [recruitment@inshp.org](mailto:recruitment@inshp.org) with project number as the subject of the email. Shortlisted candidates will be notified and asked to send the further documents as required. For any queries about this job please contact [sagar.dhakal@icshp.org](mailto:sagar.dhakal@icshp.org) or [ynzhang@icshp.org](mailto:ynzhang@icshp.org).