

# **Consultation on the provision of equipment for the pilot sites of the ICaRE4Farms project of the INTERREG NWE programme**

#### ORGANIZATION INITIATING THE CONSULTATION

FENG TECHNOLOGIES  
ZA du Riblay  
53260 Entrammes

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#### OBJECT OF THE CONSULTATION

The purpose of this consultation is to select a supplier for the various elements required for the installation of new generation solar thermal power plants for the 4 pilot sites of the ICaRE4Farms project . ICaRE4Farms is a project from the Interreg NWE programme, Fengtech is a partner of this project.

**PROCEDURE:** Contract awarded in accordance with the adapted procedure

**DURATION OF THE MARKET:** The service will begin on the day the service contract is signed and will last until the official end of the project, increased by 6 months, i.e. June 25, 2023.

**LAUNCH OF THE CONSULTATION:** Septembre 15, 2020

**DEADLINE FOR SUBMITTING OFFERS:** October 15, 2020

**ANNOUNCEMENT OF SUCCESSFUL CANDIDATES:** October 20, 2020

#### AWARD CRITERIA

Technically and economically most advantageous offer assessed according to the criteria set out in the S.A.T.C. (see below)

#### TERMS OF SUBMISSION OF TENDERS

ONLY offers sent as a digital file to the following address: [liqun.feng@fengtech.fr](mailto:liqun.feng@fengtech.fr) will be accepted.  
An acknowledgment of receipt will be returned by email.

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## SPECIFIC ADMINISTRATIVE AND TECHNICAL CLAUSES (S.A.T.C.)

# **Supply of equipment for the pilot sites of the ICaRE4Farms project, of the Interreg NWE Programme**

### Introduction: FENG TECHNOLOGIES (FENGTECH)

FENGTECH is an innovative SME created in 2010 and based in Entrammes in Mayenne. The company innovates in high performance solar water heating system for professionals. FENGTECH's systems reduce the carbon impact, while making significant savings for its customers. [www.fengtech.fr](http://www.fengtech.fr)

### The Interreg Programme

In December 2013, the European Commission approved a legislative package for Cohesion Policy 2014-2020, including proposals to ensure that EU investments are targeted towards Europe's long-term objectives for growth and jobs, as set out in the Europe 2020 strategy.

The general objective is to implement solutions to address regional challenges in the fields of innovation, resource efficiency, the environment and cultural assets, capable of producing a better quality of life in European territories. .

The NWE programme is part of the European objective of territorial cooperation, known as Interreg. This objective is financed by one of the European regional policy funds: the European Regional Development Fund (ERDF).

The INTERREG NWE Program supports regional development in North West Europe by funding transnational projects through ERDF. In this way, it promotes transnational cooperation to deal with issues common to the regions of the entire territory covered. Thus, it encourages transnational cooperation in order to make North West Europe a key economic player and an attractive place to work and live, with high levels of innovation, sustainability and cohesion.

For more information you can visit <https://www.nweurope.eu/>

### The ICaRE4Farms project

The project ICaRE4Farms is funded by the INTERREG North West Europe 2014-2020 Program. It started on 26/09/2019 and is scheduled to end on 25/12/2022.

The ICaRE4Farms project is part of the "Low Carbon" theme of the INTERREG North-West Europe program. This project aims to stimulate the use of solar thermal energy in agriculture in the North West Europe region, to help reduce greenhouse gas emissions, to increase the share of renewable energies, facilitate the transition to a low-carbon economy and help achieve the European target of 27% renewable energies by 2030.

As a project partner, Fengtech is an expert in solar thermal energy and designs new generation solar thermal power plants. Fengtech is responsible for supplying the high performance solar thermal power plants for the 4 pilot sites of the project, in coordination with the project partners and the project leader of the Laval Mayenne Technopole project.

The total budget of the ICaRE4Farms project is 3.37 million euros and the project partnership is as follows:

Partners	Country
Laval Mayenne Technopole	France
Association des Chambres d'Agriculture de l'Arc Atlantique	France
Innovatiestunpunt	Belgium
Lincoln University	United Kingdom
SunChip Projects BV	Netherlands
Cornelissen Consulting Services BV	Netherlands
Université de Bretagne Sud	France
Northern and Western Regional Assembly	Ireland
Feng Technologies SAS	France

### Object of the market

In charge for the implementation of new generation solar thermal power plants, FENGTECH is responsible for selecting and assembling high performance equipment for the 4 pilot sites of the project.

The object of the present contract is the supply of this equipment. The size of the equipment will be measured by the number of solar thermal collectors.

### Description of the solar thermal components :

The service provider must be fully familiar with the rules of the art of solar thermal power plants.

Each collector unit has the following characteristics:

- overall collector surface area of approximately 4m<sup>2</sup> (including mechanical stainless steel supports),
- includes a stainless steel solar storage tank with a storage capacity of approximately 300 litres, equipped with thermosiphon technology with or without pressure,
- must have sufficient insulation for the North West Europe region
- must demonstrate an energy production equivalent to 700kWh/m<sup>2</sup> or more. per year in North-Western Europe

- The equipment provider will have to provide the following equipment:
  - 1- Site in France WPI-1 (calves farm):  
16 units of solar thermal collectors + regulator + protection valve (pressure and temperature) and connections between solar storage tanks
  - 2- Site in England WPI-2 (horticultural greenhouse):  
8 units of solar thermal collectors + regulator + protection valve (pressure and temperature) and the connections between solar storage tanks
  - 3- Site in the Netherlands WPI-3 (Dairy cheese farmhouse):  
30 units of solar thermal collectors + regulator + protection valve (pressure and temperature) and the connections between solar storage tanks
  - 4- Site in Belgium WPI-4 (Pig farm):  
24 units of solar thermal collectors + regulator + protection valve (pressure and temperature) and the connections between solar storage tanks

In addition to the tasks commonly assigned to the supply of equipment in this type of project, FENGTECH is looking for an experienced service provider who has already built at least one new generation solar thermal power plant in agricultural farms in North-Western Europe with at least 700 kWh/m<sup>2</sup> of useful heat production per year as reported by the user.

### Conditions for participating in this call for tenders

For this tender service, FENGTECH is looking for a supplier with outstanding expertise in the supply of active components for solar thermal power plants. In order to meet these requirements, the supplier will have to meet at least the following characteristics:

- Have completed at least five solar thermal equipment services in the last five years, including one in thermosiphon.
- Fluency in French and/or English.

### Applicants Exclusion Criteria

- Non-compliance with deadlines
- Non-compliance with the conditions of participation
- Incomplete file and / or non-compliance with the requirement specifications

### Award criteria

1. Experience of the proposer in the supply of solar thermal equipment : 20 points
2. Individual experience of the applicants in the realisation of new generation solar thermal power plants demonstrating an energy production equivalent to 700kWh/m<sup>2</sup> or more per year in North-Western Europe : 40 points  
Technical quality of the proposal : 40 points
3. Technical quality of the proposal : 10 points
4. Economic criteria : 30 points maximum

## Duration and invoicing of the service

The service will start on the day the contract is signed and will last until the installation of the 4th pilot site of the project, at the end of June 2022.

An invoice will be issued when ordering equipment for each pilot site for a value of 50% of the order. The balance of the other 50% will be invoiced on delivery. The place of delivery is Fengtech (Z.A du Riblay 53260 Entrammes – France).

The term of payment is a maximum of 30 days after issue of the invoice from the service provider.

## Composition of the application file

The application file will include:

1. Proof of similar services performed in the North West Europe in the last five years, as described in the conditions for participation in this contract (address and photo of the plant and certificate of honour of the energy-saving production of the farmer)
2. A presentation of the company with its material and human resources
3. A commitment not to sub-contract the project, not to change the project manager during implementation, except in case of force majeure.
4. The costing of the service, with a breakdown enabling the construction of the proposed tariff to be understood.
5. A certificate of civil liability insurance
6. A certificate stating that the company is up to date with its social security charges and taxes.

## Deadline and form of submission of tenders

Due to the urgency of starting work on the project, the deadline for submission of tenders is set at midnight (Paris time) on 15 October 2020.

Offers must be sent ONLY electronically in French or English, requesting acknowledgment of receipt to the following address : [liquun.feng@fengtech.fr](mailto:liquun.feng@fengtech.fr)

## Estimated amount of the service

Given the size and duration of the project, as well as the complexity of the task, FENGTECH estimated that the service should be between €140,000 and €165,000.

## Response to candidates

The response to the candidates will be given **on 20 October 2020**.