

1. Your details

Type and size:

- Industry SME ≤ 10
- Industry SME 11 – 49
- Industry SME 50 – 249
- Industry 250 – 499
- Industry > 500
- R&D institution
- University
- Other

Year established : 1957

Turnover : 100 M€

NACE Keywords:

E. 36.0.0 Water collection, treatment and supply

D. 35.1.1 Production of electricity

Certifications: ISO 9001v2015 / ISO 14001v2015

Languages spoken : ENGLISH / FRENCH

Are you already engaged in Trans-National Cooperation?

YES

NO

2. Your project

Title:

Development of a supporting structure for photovoltaic panels on a water transport canal.

Summary (max. 500 characters):

“Canal de Provence” company has developed with its partners a prototype of water-cooled photovoltaic plant located above a water transport canal.



In the way of the implementation of an industrial demonstrator, the company aims to explore new solutions to support these solar panels.

Description (min. 100 characters):

This call for proposals concerns a supporting structure for photovoltaic panels. It will be located above a canal whose width will be approximately 12 m (without intermediate point of support).

The structure must resist to a minimum load of 210 N / m² corresponding to:

- photovoltaic panels equipped with a heat exchanger on the rear face,
- the cooling system consisting of stainless steel or PE pipes,
- All the devices necessary for operation of the system (connection cables, boxes, ...).

Access of people on the structure is not foreseen (interventions and repairs will be carried out with a crane).

The binding of the structure shall not:

- Alter the integrity of the concrete lining of the canal,
- create any difficulty for the use of the canal
- avoid vehicular traffic on the side road

The maximum height of the structure should not exceed 1.5 m for reasons of landscape integration.

Finally, the structure shall be adapted to the local climatic conditions (in particular to wind or snow conditions).

Advantages and Innovations (min. 50 characters):

One of the main challenges of the project is to reduce the costs of the supporting structure in order to encourage the development of these new photovoltaic power plants.

The total cost of the supporting structure (study, construction and installation) must not exceed

200 € per linear meter.

Expected duration : between 12 and 24 months.

Estimated budget (if known) : The global budget of the supporting structure of the industrial demonstrator is not defined at this stage.

Stage of development:

- Already on the market
- Available for demonstration
- Concept stage
- Field tested / evaluated
- Project already started
- Project in negotiation / urgent
- Proposal under development
- Prototype available for demonstration
- Under development / lab tested

Comments regarding stage of development:

The prototype is located on the territory of Rians City (Department 83).
The industrial demonstrator will be located nearby.

Intellectual Property Rights Status:

<input type="checkbox"/> Patent(s) applied but not yet granted
<input checked="" type="checkbox"/> Granted patents or patent application essential
<input type="checkbox"/> Copyright registered
<input type="checkbox"/> Secret know-how
<input type="checkbox"/> Exclusive rights
<input type="checkbox"/> Others (registered design, plant variety...)
<input type="checkbox"/> Trade marks
<input type="checkbox"/> Design rights
<input type="checkbox"/> Patent granted

Comments regarding IPR status:

3. Partner(s) sought

- Type of partner sought**
- Industry / SME
 - Research institute / University
 - Technical Centre / Technology transfer centre
 - Public body

Type and role of partner sought:

The sought partner shall propose solutions to support the solar panels and fulfill the constraints.

The following criteria will be analyzed:

- Suitability of the project
- Taking into account the constraints
- Creativity regarding other features
- Feasibility
- Operation and maintenance constraints
- Adaptability of the solution to the sinuosity of the canal
- Maturity of the proposed solution
- Capacity of the project to be quickly launched and operational
- Durability of materials
- Performance / cost ratio
- Implementation constraints
- References and experiences

A coordinator is required

YES

NO

4. The call for proposal

Call name: Supporting structure CANALSOL

Deadline for the call:

- April 30th, 2017: deadline for submission of technical proposition
- Pre-selection, analysis and selection of finalists
- May 15th, 2017: Pitch of presentation of the finalists in front of the members of the jury
- May 22^{sd}, 2017: Announcement of the winners

Expected documents:

- A brief description of the company (activity, year of establishment, human and technical resources, ..)
- A technical report allowing the jury to understand the principles of the proposed solution (between 2 and 6 pages maximum)
- • If necessary, detailed illustrations completing the technical report : plans, diagrams, pictures, ...

Contacts:

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