Technology Request

Chilean enterprise specialized in the production of thermal energy based on biomass is looking for technology in Europe

Summary

Chilean enterprise specialized in the production in thermal energy based on biomass want to expand their area of work to the recycling and waste to energy in order to valorise them. The company is looking for partner with expertise in waste energy, wastes recycling, through services agreements.

Expiration Date 28 July 2017
Reference TRCL20160509001
Profile link

Details

Description

Chilean enterprise founded on 1977 specialized in the production in thermal energy based on biomass. The enterprise have two business areas: sell steam and rent steam boiler. The sale of steam is doing by boilers specially design and built to burn forestry and agro industrial wastes. Actually the company have 8 industrial units in Chile as the client requested. All the units have a folding system and gas control that allowed to accomplish with the environmental normative.
The rent of steam boiler, have more than 15 mobile boilers manufactured in ramps that have all the needed equipment for the autonomous operating in the field. This service is oriented in order to satisfy the requirement of thermal energy fast and safety.
The boilers have the following characteristics: 0,5 (t/h) to 12 (t/h) with presions from 1 to 10,5 (bar) and soul be operated by diesel petrol FO N-5 and N-6 and forestry wastes.

The company is leader in the Chilean market and they are looking for technology in Europe in this sector (waste energy, wastes recycling) that could help them with the elaboration of waste energy. The company is willing to establish cooperation with partners with expertise through services agreements.

Technical Specification or Expertise Sought

The company is searching technology in the waste energy sector (incineration process, gas control, etc).

Keywords

Technology

04	ENERGY
04005005	Solar/Thermal energy

Market

06003001	Solar/thermal energy

NACE

S.96.0.9	Other personal service activities n.e.c.

Open for EOI : Yes

Client

Type and Size of Organisation Behind the Profile

Industry SME 11-49

Year Established

1977

Turnover

10 - 20M

Already Engaged in Trans-National Cooperation

No.

Languages Spoken

English

Client Country

Chile

Partner Sought

Type and Role of Partner Sought

The company is looking for distinctive renewable energy production technologies and also energy efficiency products/systems that lead to innovative energy solutions/production in the wind and solar areas.

The company is leader in the Chilean market and they are looking for technology in Europe in

this sector (waste energy, wastes recycling) that could help them with the elaboration of waste energy. The company is willing to establish cooperation with partners with expertise through services agreements.

Type and Size of Partner Sought

SME 11-50,SME <10,SME 51-250

Type of Partnership Considered

Services agreement
Commercial agreement with technical assistance

Application development of new, efficient, and greener supercapacitor for hybridization of car and/or other vehicles

Summary

A French company active in the sector of elastomers for automotive and aircraft industries is currently developing a new technology of supercapacitors improving energy density with innovations in the fields of materials for electrodes and electrolytes. The company is looking for partners to jointly develop the technology, test it or implement it in their own developments. Technical cooperation or research cooperation agreements are considered.

Expiration Date	05 September 2017
Reference	TRFR20150902001
Profile link	

Details

Description

The French company is a development and production group of smart elastomers and polymers components and optimized systems, for aircraft and automotive industry. Well known in antivibration and sealing business, the company's research and development capacities and projects are also tackling many other fields including thermal energy management, and electric energy storage. The company is currently developing a new technology in the field of supercapacitors.

This new supercapacitor has 50% higher energy density compared with products already on the market. It is able to work efficiently at higher level of temperature, up to 120°C, and is made with greener materials.
These 3 main evolutions in characteristics provide the opportunity to completely redefine the way that systems using such supercapacitor can be dimensioned, packaged, and located. For example, when used in an engine compartment of a vehicle, it can be located closer to the internal combustion engine with shorter high power electric wires, and lighter packaging.

As all supercapacitors applied in transportation, it can be used as a stand alone energy source for short distances and frequent refuelling operations, or associated with downsized battery in a dual electric energy storage system in order to save battery fatigue life. This new supercapacitor does not use any organic electrolyte in a way to achieve a safer and more environmental-friendly system.

The next development phase should take into account the final applications. It can be hybridization of car, truck, bus, or off road vehicles, marine or aerospace, with new electric and electronic architecture. The target will be to optimize systems in vehicles, with the best architecture allowing taking advantage of this innovative supercapacitor. Thus the company is

requesting industrial partners involved in these sectors to provide their expertise and opportunities for technology integration in their own developments.
Eco-design and life cycle analysis would be a great and welcome additional competence.
Partnerships considered are technical cooperation or research cooperation agreements.

Technical Specification or Expertise Sought

-Mechanical and electric/electronic architecture in vehicles
-Power supply and electronics
-Testing in operation
-Abuse testing
-Battery – supercapacitor pack integraton
-Eco-design and life cycle analysis

Stage of Development

Field tested/evaluated

IPR Status

Patents granted,Granted patent or patent application essential

Comment Regarding IPR status

Patents are granted in the European Union, the USA, Japan, China, South Korea and Brazil.

Keywords

Technology

02009002	Hybrid and Electric Vehicles
02009012	Automotive engineering
02009014	Automotive electrical and electronics
04001003	Storage of electricity, batteries

Market

06011	Energy for Transport

NACE

C.22.1.9	Manufacture of other rubber products
C.27.2.0	Manufacture of batteries and accumulators

Open for EOI : Yes

Dissemination

Send to Sector Group

Automotive, Transport and Logistics

Client

Type and Size of Organisation Behind the Profile

Industry >500

Year Established

1853

Turnover

>500M

Already Engaged in Trans-National Cooperation

Yes

Languages Spoken

English
French

Client Country

France

Partner Sought

Type and Role of Partner Sought

The company is looking for automotive OEM and vehicle manufacturers.
The aim of the cooperation is to faster the development of the supercapacitor technology for its integration in vehicles as a power source (main or additional).
The industrial partners sought will perform also the development of their own components and subsystems based on the supercapacitor (power electronics, packaging, drive train, …)

The client is also open to cooperate with academic actors in order to perform further lab testing.

Type and Size of Partner Sought

SME 11-50,University,R&D Institution,SME <10,>500 MNE,251-500,SME 51-250,>500

Type of Partnership Considered

Technical cooperation agreement
Research cooperation agreement