Technology Request

A Chinese company is looking for solutions for the concentrated liquid caused by the treatment of landfill leachate

Summary

A Chinese leading environmental solid waste treatment company is looking for solutions for the concentrated liquid caused by the treatment of landfill leachate with membrane method. They want to cooperate with partners through research cooperation agreement and technical cooperation agreement.

Expiration Date 07 March 2017
Reference TRCN20160302001
Profile link

Details

Description

This Chinese company was established in 2010.
The main products and services include household waste treatment, heavy metal pollution treatment and recycling of various kinds of metals.
The company owns a combination of three platforms, including resource integration platform, technology R&D platform as well as investment and financing platform.
The company is looking for partners for research cooperation agreement and technical cooperation agreement of solutions for the concentrated liquid caused by the treatment of landfill leachate with membrane method. The concentrated liquid is mainly composed of biorefractory organic compound. The volume of the liquid to be treated is about 200 tons per day in cities and 1-10 tons per day in rural areas.
After the treatment of NF/RO (nano filtration/nano filtration) membrane, landfill leachate will produce about 30% highly concentrated liquid. The company is in search of an advanced and feasible technology to deal with the concentrated liquid mentioned above. The running cost of the treatment should be low, with an investment less than 50 thousand per ton, and an operating cost of about 10 euro per ton. The subsequent waste should be disposed easily.

Technical Specification or Expertise Sought

Solutions for the highly concentrated liquid caused by the treatment of landfill leachate with membrane method. The technology should be feasible and the operating cost should be low. Waste produced by the treatment should be disposed easily.

Keywords

Technology

10002011	Soil and Groundwater Pollution
10003003	Land and Sea Disposal
10003004	Recycling, Recovery

Market

08004003	Water treatment equipment and waste disposal systems
08004004	Other pollution and recycling related

NACE

E.38.2.1	Treatment and disposal of non-hazardous waste
E.38.2.2	Treatment and disposal of hazardous waste
E.39.0.0	Remediation activities and other waste management services

Open for EOI : Yes

Dissemination

Send to Sector Group

Environment

Client

Type and Size of Organisation Behind the Profile

Industry SME 50-249

Year Established

2010

Languages Spoken

English
Chinese

Client Country

China

Partner Sought

Type and Role of Partner Sought

The company is looking for R&D institutions, universities or companies involved in advanced technologies of household waste treatment. The company is interested in research cooperation agreement and technical cooperation agreement.

Type and Size of Partner Sought

University,R&D Institution,>500 MNE

Type of Partnership Considered

Technical cooperation agreement
Research cooperation agreement

Technology Request

Expertise sought: alternative, fuel cell drive for special branches of transportation

Summary

The objective of the Hungarian SME's project is to construct the hydrogen generating and filling station for electric vehicles (small boat, material handling) driven by hydrogen fuel cell to provide fuel supply for equipments. The development is also related to applied research, economic and environmental objectives. The SME looks for experts capable of manufacturing and validating experimental and demonstration equipments within the framework of a financial/manufacturing/technical agreement.

Expiration Date 22 June 2017
Reference TRHU20160615002
Profile link

Details

Description

The Hungarian SME started the development of Proton Exchange Membrane (PEM) type fuel cells in 2006. Existing power sources with own design would be further developed, within the range of 1-5 kW, based on foreign manufactured fuel cell models.

Task distribution during the project

Task of the company looking for cooperation:
- Building a fuel cell based power generating system.
- Integrating the power generator into targeted electric vehicle (eg. boat, forklift).

Common task:
- Specify the common platform of the on-board fuel storage system to fullfill the safety requirements of the vehicle and the fuel filling station as well.
- Technical support for official authorization of the vehicle (explosion proof equipment, high pressure gas storage, etc.).

Task of the would bepartner:
- Design and building of the hydrogen generating and filling station for fuel cell vehicles.
- Preliminary expert opinion for the authorization of the facility.
The Hungarian SME is looking for cooperating partners within the framework of financial/manufacturing/technical agreement.

Technical Specification or Expertise Sought

Partner should be capable of manufacturing and validating experimental and demonstration equipments.

Partner should have experts with proficiency in fuel cell and/or hydrogen/gas storing technologies, electric vehicles.

Stage of Development

Under development/lab tested

IPR Status

Secret Know-how

Keywords

Technology

02008003	Logistics
02009002	Hybrid and Electric Vehicles
02009005	Shipbuilding
04001006	Transport and storage of hydrogen
04002001	Fuel cells

Market

03002	Batteries
03003	Power Supplies
06002004	Hydro-electric
06003008	Other alternative energy
06008	Energy Storage

NACE

C.27.1.2	Manufacture of electricity distribution and control apparatus

Open for EOI : Yes

Dissemination

Send to Sector Group

Environment

Client

Type and Size of Organisation Behind the Profile

Industry SME 11-49

Year Established

0

Languages Spoken

English
Hungarian
German
Russian

Client Country

Hungary

Partner Sought

Type and Role of Partner Sought

- Type of partner sought: industrial companies, research institutes, universities.

- Specific area of activity of the partner:
- Company manufacturing electric vehicles (small boats, material handling)
- Expert company in the field of gas storage and gas supply systems
- Company with proficiency in technical testing and authorization

- Task to be performed by the partner sought:
- Expert opinion and plan for official authorization (explosion proof equipment, high pressure gas storage, etc.)
- Design and building of the hydrogen generating and filling station for fuel cell vehicles.
- Preliminary expert opinion for the authorization of the facility.

Type of Partnership Considered

Financial agreement
Manufacturing agreement
Commercial agreement with technical assistance

Attachments

Storage.jpg



Boat.jpg


Rent
H2
Fuel Cell