Technology Request

Wave energy converter

Summary

An Irish company requires a technology that will allow wave energy to be converted to electrical energy for powering navigation or data buoys approximately 2-4m in diameter.

Creation Date	18 June 2014
Last Update	06 October 2014
Expiration Date	06 October 2015
Reference	TRIE20140618001

Details

Description

The company want to investigate the technologies available to convert the wave energy available in the ocean to electrical power. The power ideally should be in the region of 2-5kW and it should be possible to mount on a Ø2.0m - Ø4.0m buoy.
The buoy can be designed to accommodate the selected technology.

They will rate the technology on the following parameters
- Technical performance
- Cost
- Simplicity
- Adaptability
- Innovation
- Track record

Technical Specification or Expertise Sought

Completed technology. The technology is required to convert the wave energy available in the ocean to electrical power. The power ideally should be in the region of 2-5kW and it should be possible to mount on a Ø2.0m - Ø4.0m buoy.

Stage of Development

Already on the market

Comments Regarding Stage of Development

Ideally the technology would be ready for the market but would need to have at least gone through one demonstration phase.

IPR Status

Patents granted

Comment Regarding IPR status

Export rights for utilisation of technology on marine buoys

Keywords

Technology

004002004	Generators, electric engines and power converters

Market

006005011	Marine energy

NACE

D.35.1.1	Production of electricity

Dissemination

Send to Sector Group

Maritime Industry and Services

Client

Type and Size of Organisation Behind the Profile

Industry SME 50-249

Year Established

1987

Turnover

20 - 50M

Already Engaged in Trans-National Cooperation

No.

Langages Spoken

English

Client Country

Ireland

Partner Sought

Type and Role of Partner Sought

Technology partner

Type and Size of Partner Sought

SME 51-250

Type of Partnership Considered

Technical cooperation agreement

Technology Request

Technology sought for eliminating odor

Summary

A Korean R&D center for convergence technologies, focusing on the development of new businesses, is looking for an odor removing technology to eliminate smell caused by sulfur compounds and ammonia. They are interested in a license agreement and commercial agreement with technical assistance.

Creation Date	30 September 2014
Last Update	06 October 2014
Expiration Date	06 October 2015
Reference	TRKR20140930001

Details

Description

Since the establishment of the R&D Center in September 2012, they have focused on the development of new businesses through the expansion of R&D in areas including environment, energy, functional material and electronic material. They are looking for odor remover to eliminate smell caused by sulfur compounds and ammonia.
Many odor management products “deodorize” smelly areas by spraying chemical-based fragrances into the air. However, this will only mask odors and not eliminate them. In fact, these solutions can even cause allergic or asthmatic reactions in those with sensitivities to the chemicals circulating in an indoor environment. The best way to control an odor is to remove its source. They are looking for odor remover to expand their business areas.

Technical Specification or Expertise Sought

The technology sought is as follows :
1) Remove the source of sulfur compounds and ammonia
2) Spray type
3) It has to be diluted with water

Keywords

Technology

003001001	Cleaning Technology
003004010	Special chemicals, intermediates

Market

007004010	Other consumer products

NACE

M.74.9.0	Other professional, scientific and technical activities n.e.c.

Client

Type and Size of Organisation Behind the Profile

Industry SME 11-49

Year Established

2012

Already Engaged in Trans-National Cooperation

No.

Langages Spoken

English

Client Country

South Korea

Partner Sought

Type and Role of Partner Sought

- Specific area of activity of the partners: Odor management etc.
- Task to be performed by the partner sought: Licensing agreement, Commercial agreement with technical assistance

Type and Size of Partner Sought

>500

Type of Partnership Considered

License agreement
Commercial agreement with technical assistance

High voltage pulse capacitors for energy storage and rapid discharge

Summary

A French company is looking for high voltage pulse capacitors. The energy stored in the capacitors should be discharged at repetition rates from 500 ms with 32 µF to 5000 ms with 232 µF. The number of discharge must be specified in the proposition. The size of the units must be the smallest possible to fit into the energy sources which are portable. The company is interested by manufacturing agreement.

Creation Date	16 September 2013
Last Update	06 October 2014
Expiration Date	13 December 2014
Reference	12 FR 34k3 3R00

Details

Description

The French company is an expert in marine seismic instruments and their manufacturing. They develop and adapt their product to clients and so need to improve their products.
They would like to source high voltage pulse capacitors for energy storage and rapid discharge and integrate them into their products.

Technical Specification or Expertise Sought

Technical Specifications / Specific technical requirements:
The capacitors required for this application must respect the following main characteristics:
Capacitance: units from 3.5 to 232 µF
Working voltage: DC
Maximum DC voltage: 4300 V
Discharge time: 150 µs
Charge time: 250 ms @ 32 µF
Repetition rate: 500 ms @ 32 µF
Peak current: 2000 A

Moreover, these capacitors will be integrated in a system which will be used in different environments, so even if climatic conditions are not quite hard, the capacitors should resist to temperature varying from 0 to 50°C.
The size of the units must be the smallest possible to fit into the energy sources which are portable

Current and Potential Domain of Application: Marine seismic instruments

Keywords

Technology

004001003	Storage of electricity, batteries
006001012	Electromedical and Medical Equipment

Market

003002	Batteries
003003	Power Supplies
003004003	Other electronics related equipment
003007003	Other analytical and scientific instrumentation

NACE

M.71.1.2	Engineering activities and related technical consultancy

Dissemination

Send to Sector Group

Maritime Industry and Services

Client

Type and Size of Organisation Behind the Profile

Industry SME 11-49

Year Established

0

Already Engaged in Trans-National Cooperation

No.

Langages Spoken

English
French

Client Country

France

Partner Sought

Type and Role of Partner Sought

- Type of partner sought: Industry

- Specific area of activity of the partner: High voltage capacitors development and manufacturing

- Task to be performed by the partner sought: The partner should present a product answering the technical specifications.

Type of Partnership Considered

Manufacturing agreement
Technical cooperation agreement