Profile Status: Published

Technology Offer

Dutch company offers technology for handheld device for measuring the tension in pre-stressed cables

Summary

A Dutch company offers an efficient technology to measure tension in pre-stressed cables contactless that can be used primarily in the concrete industry to improve efficiency. The method consists of several components that are ready for demonstration. The company is looking for a company interested to bring this technology to the market, there is a market demand for the system. The proposed type of collaboration is a commercial agreement with technical assistance.

Creation Date	11 May 2018
Last Update	14 May 2018
Expiration Date	15 May 2019
Reference	TONL20180305001
Public Link	https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/670302ef-8ebd-45b2-b3ff-bc05e511db54

Details

Description

The Dutch company has developed a system to rapidly measure tension in pre-stressed clean cables. It can be used to check larger amounts of cables in concrete industry but also other applications can be thought of where quick measurement is required to control the tension in an efficient way.

The system consists of several parts:

Handheld measurement device
The portable measurement device can be carried in a box. After softly touching the cable to make it ‘swing’, the tool can be held at a small distance of about 10 mm from the cable and measures and displays the value of tension in the cable in a few seconds.

Cable supports
Longer cables have to be supported to be measured. Part of the system are a special height adjustable crane and a handheld tool to lift the cable.

Length measurement tool
Part of the tension measurement procedure is the measurement of the length of the cable. A laser telemeter to measure the distance is part of the system.

Steady calibration construction

To calibrate the measuring device a steady certified construction is provided.

Some prototypes have already been sold and delivered. There is also some interest from new clients for buying the devices.
However, the management concluded that there is insufficient strategic fit with their current business.
Therefore the owner of the company is looking for companies interested in buying this technology to extend for example their product range of measurement tools. The system is ready to take into production and there is a market demand for the system. The owner can give all the support needed but aims to transfer all knowledge and finish his activities in this field.
The proposed type of collaboration is a commercial agreement with technical assistance.

Advantages and Innovations

- The range of measurement can be tuned to reach a high accuracy.
- The tool can also be applied in other industries where quick measurements may improve productivity

Stage of Development

Prototype available for demonstration

Comments Regarding Stage of Development

All tools including software and drawings are ready for demonstration and there is a market demand for the system.

IPR Status

Secret Know-how

Profile Origin

Other

Keywords

Technology

09001004	Electrical Technology related to measurements
09001005	Mechanical Technology related to measurements
09001008	Other Non Destructive Testing

Market

03007002	Other measuring devices
08003007	Other industrial equipment and machinery

NACE

M.71.1.2	Engineering activities and related technical consultancy

Network Contact

Issuing Partner

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Open for EOI : Yes

Dissemination

Send to Sector Group

Sustainable Construction

Client

Type and Size of Organisation Behind the Profile

Industry SME <= 10

Year Established

2004

Turnover

<1M

Already Engaged in Trans-National Cooperation

Yes

Languages Spoken

English
Dutch
German

Client Country

Netherlands

Partner Sought

Type and Role of Partner Sought

The devices are ready to take into production. Some final steps have to be taken like searching for suppliers for purchasing of the parts and assembling of the product. Therefore a company familiar with these procedures is looked for to take care of these activities. The proposed type of collaboration is a commercial agreement with technical assistance.

Type and Size of Partner Sought

SME 11-50,SME <10,>500 MNE,251-500,SME 51-250,>500

Type of Partnership Considered

Commercial agreement with technical assistance

Attachments

device.png



support.png



calibration construction.png



Profile Status: Published

Technology Offer

Innovative LED light solutions and modules for customized applications - safety lighting, warning signs, marks, boundaries, advertising displays, functional and decorative light features on yachts, caravans and interior items

Summary

A German company offers innovative LED light solutions and modules for customized applications e.g. safety lighting, warning signs, boundaries, advertising displays and also for functional or decorative light features on yachts, caravans and interior items. The offer includes prototyping, manufacturing, assembly as well as hard / software development and programming of intelligent control functions. The company seeks lighting system developers for commercial agreements with technical assistance.

Creation Date	08 September 2017
Last Update	25 September 2017
Expiration Date	25 September 2018
Reference	TODE20170727001
Public Link	https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/f0082b69-2a0e-442c-91ef-2210f4792c71

Details

Description

Although LED illumination represents state of the art lighting systems, there are fast changing trends in LED applications, designs, modules and arrangements. Especially the integration of individualized recognizable LEDs in products / buildings / public places / private locations etc. has become an effective and attractive way to implement functional, but also unique visual features at the same time.
A German company develops and manufactures customized innovative LED light solutions and modules for a wide range of applications. This includes prototyping for new lighting systems/applications, manufacturing, component distribution and assembly as well as the development of respective hard and software (switching circuits, hardware layout, engineering data, software programming). Thermo and waste heat management as well as programming of intelligent LED control such as dimming, intensity and colour effects, time intervals, motion and other sensors and other various regulation features can also be included.
These environmentally friendly, mercury-free LED light solutions offer 40% energy savings and

have a 5-times higher lifetime than conventional energy-saving-lamps.
The current portfolio comprises a variety of LED bulbs and customized individual LED modules. Applications of the innovative light solutions are for example indoor or outdoor safety lighting, warning signs, marks, boundaries, advertising displays, but also LED light features on yachts, boats, caravans or interior items. An attractive visual product of the company for instance are single or multicolored radio-controlled LED units used to illuminate tall textile-covered party tables.

The company is looking for lighting system developers and producers who integrate the innovative LED bulbs and modules into their lighting products or jointly develop new functional and attractive applications.

Advantages and Innovations

- customized innovative LED light solutions and modules for a wide range of applications
- environmentally friendly
- mercury-free
- 40% energy savings compared to conventional energy-saving-lamps
- 5-times higher lifetime than conventional and energy-saving-lamps
- fast prototyping for new applications

Stage of Development

Already on the market

IPR Status

Patents granted

Profile Origin

National or Regional R&D programme

Keywords

Technology

01002003	Electronic engineering
02006004	Installations related to construction (energy, lighting, …)
02009020	Lighting and signalling system

Market

08005	Other Industrial Products (not elsewhere classified)
09007002	Manufacture of construction materials, components and systems

NACE

C.27.4.0	Manufacture of electric lighting equipment

Network Contact

Issuing Partner

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Open for EOI : Yes

Dissemination

Send to Sector Group

Environment

Client

Type and Size of Organisation Behind the Profile

Industry SME <= 10

Year Established

2010

Already Engaged in Trans-National Cooperation

No.

Languages Spoken

English
German

Client Country

Germany

Partner Sought

Type and Role of Partner Sought

Company seeks industry partner, lighting systems developers and manufacturers for joint lighting system development; integration of the proposed innovative LED bulbs, modules and

arrangements into lighting systems; cooperation includes prototyping, soft and hardware development, programming as well as engineering and technical assistance

Type of Partnership Considered

Commercial agreement with technical assistance

Attachments

Profile Status: Published

Technology Request

Urgent partners are sought for an energetic utilization of natural fibre composites

Summary

A research institution from Germany with focus on research and experimental development on natural sciences and engineering is investigating the energetic utilization of natural fibre composite plastics (NRC). Of special interest are residual materials that can no longer be recycled due to the necessary effort. The goal of a partnership is to develop small systems for SMEs that realize the energy recovery of plastics according to the power requirement. A research cooperation agreement is sought.

Creation Date	21 March 2018
Last Update	26 March 2018
Expiration Date	27 March 2019
Reference	TRDE20180314001
Public Link	https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/657e3c37-7a0f-44d4-9c9f-1e5cf078e099

Details

Description

The research institution from Germany has three different research pillars. One focus is research into energy and environmental issues. Due to the successful submission of a federal research call the institution is able to realize a R&D project with a budget of 1,9 Mio EUR until 2021. For the requested research sub-project, there is a budget of 85.000 EUR. This sub-project is focussing on the energetic utilization of natural fibre composite plastics (NRC).

Now, a suitable system is designed for this purpose. Due to the high legal requirements for emission protection and the resulting high technical complexity, small systems for the SMEs are currently not the state of the art.

For the realisation of the project partners are sought that deliver relevant material (max. 100 kg) with a proper documentation of the components. The material will be used for material- and process analysis and experimental approaches (e.g. fuel analysis, material flow analysis, etc.). In addition, the partners have to fund parts of the relevant costs for the analysis.

Partners are sought for a research cooperation agreement in order to optimize the process of energy supply.

Technical Specification or Expertise Sought

The here mentioned facts represent the milestones of the project. Potential partners should have already experience in the described field or should plan (a high degree of competence and technical background is expected) to investigate in natural fibre research. The development of an ideal plant design and process management refers to fuel characterization, by means of ash melting behaviour, elemental analysis, TGA (thermo-gravimetric analysis) and calorific value. Conducting combustion tests in a muffle furnace (micro-combustion reactor) and CFD (computational fluid dynamics) calculation for flow behaviour in the combustion chamber is another task of the project. With these parameters, it is possible to construct and simulate boiler geometries.
Further expertise is sought in the fields of:
- Development of economic plant concepts for the energetic utilization of non-recyclable highly filled plastic waste for the plastics processing industry
- Concepts for direct use of heat energy for heating press, injection moulds, and possibly buildings
- Development of robust, geometrically variable mill systems for optimum size reduction of SMC (sheet mould compounds) / BMC (bulk mould compounds) waste
- Development of clean and environmentally friendly emission control systems
- Application and collection as well as economic treatment of inorganic fillers for reuse.

Stage of Development

Project already started

Comments Regarding Stage of Development

Currently, existing procedures and processes are analysed and evaluated with regard to possible intersections with the energy supply from difficult fuels.

IPR Status

Secret Know-how

Keywords

Technology

02007014	Plastics, Polymers
04	ENERGY
06006002	Bioplastics

Market

08001004	Fibre-reinforced (plastic) composites
08001006	Processes for working with plastics
08001016	Commodity chemicals and polymers
08004002	Chemical and solid material recycling
09007004	Engineering and consulting services related to construction

NACE

M.72.1	Research and experimental development on natural sciences and engineering

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Open for EOI : Yes

Dissemination

Send to Sector Group

Intelligent Energy

Client

Type and Size of Organisation Behind the Profile

R&D Institution

Year Established

1992

Turnover

1 - 10M

Already Engaged in Trans-National Cooperation

No.

Experience Comments

The intention of the federal project is to apply this technological approach to SMEs. On the one hand, there is a regional eco-system approach for the empowerment of sustainable and applied energy research; on the other hand, it is envisaged to integrate further research facilities within transnational settings.

Languages Spoken

English

German

Client Country

Germany

Partner Sought

Type and Role of Partner Sought

Type: SME, MNE, and research institutions
Activity: Industry and/or R&D
Role: Provision of trial material, cooperation in optimizing the energy supply process

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

Research cooperation agreement

Attachments