Technology Request

Gas turbine and a new technology of thermal power sought.

Summary

A Chinese company specializes in R&D and manufacture of gas turbine and related technologies, is looking for gas turbines and new technology for thermal power. Agreement type may include joint venture, licensing, research cooperation or services agreement.

Expiration Date 11 February 2017
Reference TRCN20160115001
Profile link

Details

Description

This company specializes in R&D and manufacture of gas turbine, mobile generator set□CCHP system, industrial combustion furnace, industrial energy saving system, blade type(axial, centrifugal)compressor. The company has independent intellectual property rights, and currently it has been awarded nearly 50 patents.
It is looking for enterprises or research institutions with any special abilities and who are willing to put the products and technology to the international market. The company is interested in purchasing a gas turbine or a new technology of thermal power.

Technical Specification or Expertise Sought

1□Gas turbine cooperative production;
2□Gas turbine integrated application;
3□A equipment that used thermal power of technology innovation;
4□A control technology of gas turbine and integrated energy system.

Keywords

Technology

04002005	Generators, electric engines and power converters
04002009	Turbines
04002010	Combined heat and power (CHP) engines

Market

06002001	Oil, gas and coal
06011	Energy for Transport

08003006	Power transmission equipment (including generators & motors)

NACE

C.30.3.0	Manufacture of air and spacecraft and related machinery
D.35.1.1	Production of electricity

Open for EOI : Yes

Client

Type and Size of Organisation Behind the Profile

Industry SME 50-249

Client Country

China

Partner Sought

Type and Role of Partner Sought

1. Leading international products and technology;
2. Leaders of subdivision technology;
3. Enterprises or research institutions with any special abilities;
4. Partners who can put the products and technology to the international market.

Type and Size of Partner Sought

University,Inventor,R&D Institution,>500 MNE,251-500,SME 51-250,>500

Type of Partnership Considered

Services agreement
License agreement
Joint venture agreement
Research cooperation agreement

Technology request on using a biomass heating systems

Summary

A Ukrainian food company specialized in milk, sour cream, butter production and other milk products is seeking for technology on using a biomass heating systems and investments for biomass heating systems installation. The main company's objective is to reduce natural gas consumption for steam production to improve plant's resource efficiency. The company is looking for technology owners, business partners for cooperation or joint company foundation, investors.

Expiration Date 12 November 2016
Reference TRUA20150812003
Profile link

Details

Description

Daily productivity of the milk plant is 100 t of milk. Total annual productivity for all milk products is 620 t (calculated for 2013). To improve the plant's efficiency the following main objective for the analyzed processes was identified with the management – implementation of technology on using a biomass heating systems and installation of pellets-fired boiler near the pasteurizers (to exclude heat expenditures during transportation). Modernization will allow this company to become an independent from natural gas supply unit.
The company requires technology on using a biomass heating systems and equipment for biomass processing. Expected external funding is about 200'000 €.

Technical Specification or Expertise Sought

Implementation of technology on using a biomass heating systems and installation of pellets-fired boiler will allow to use energy from a source with a very small carbon footprint and significantly reduce heat expenditures of the steam-pipelines.
Basic advantage of pellets as a fuel is its availability at the enterprise and the resulting independency from natural gas supply. While also this modernization will allow to cut an environmental impact.

Keywords

Technology

004008	Energy efficiency
04002004	Furnace and boiler technologies
04005007	Waste incineration

Market

06003008	Other alternative energy
08004004	Other pollution and recycling related
09004008	Other manufacturing (not elsewhere classified)

NACE

C.10.5.1	Operation of dairies and cheese making

Open for EOI : Yes

Client

Type and Size of Organisation Behind the Profile

Industry SME 50-249

Year Established

0

Client Country

Ukraine

Partner Sought

Type and Role of Partner Sought

- Type of partner sought: company;
- Specific area of activity of the partner: producer of heating systems;
- Task to be performed: implementation of the solution into its own installation for combustion or a new installation.

Type of Partnership Considered

Manufacturing agreement
Commercial agreement with technical assistance
Joint venture agreement

Technology Request

Seeking technology provider for development of river waste removal prototype

Summary

A UK company in the waste and environmental management sector is seeking a partner to provide technological support to develop a prototype that removes waste and debris from rivers. If left uncollected, waste and debris can cause problems such as pollution and flooding. The company aims to develop a system for addressing this issue and is looking for a partner to provide technical cooperation and/or a research or commercial agreement to assist in the development of a prototype.

Expiration Date 07 September 2017
Reference TRUK20160728001
Profile link

Details

Description

Floating waste in rivers is a growing environmental concern for water resource management, and many cities and regions are seeking solutions. The UK company has wide experience in developing innovative solutions and undertaking research in both the waste management and environmental sectors. It provides consultancy and assistance to waste management sector companies and the public sector at various levels of company organisation from technical to strategical.

The company has developed a solution that will address the problem of removing floating waste and debris in rivers. Debris could consist of material from natural origin such as logs or be of an artificial nature. The solution aims to be applicable in a variety of different scenarios where debris can cause pollution problems or a flooding risk.

The solution is currently being researched and designed. Scientific collaboration is currently being provided by an academic research centre active in waste management, hydrology and the water management field.

The desired outcome of an international partnership will be the development and validation of a prototype.

The company is interested in the following types of partnership:
- Commercial agreement with technical assistance: to support the engineering and construction of the prototype
- Research cooperation agreement: to contribute to the feasibility study
- Technical cooperation agreement: to further develop the design of the prototype

Technical Specification or Expertise Sought

The technological idea that will deal with the issue of river waste and debris has being developed. The partner should be able to supply the technology and technical assistance to aid in the realisation of this project. The partner will have the necessary flexibility to adapt their expertise and technologies to the specific issue in order to implement the best solution.

The ideal partner should have one or more of the following:
- the capability to develop the design and the calculations for allowing the feasibility study
- engineering capabilities; civil engineers, hydraulic engineers, environmental engineers or mechanical engineers
- the technical capability to physically build the prototype

Keywords

Technology

10002007	Environmental Engineering / Technology
10002011	Soil and Groundwater Pollution
10004	Water Management
10004008	Water Resources Management
10004011	Flood Management

Market

08004002	Chemical and solid material recycling
08004003	Water treatment equipment and waste disposal systems
08004004	Other pollution and recycling related
09003001	Engineering services

NACE

E.38.1.1	Collection of non-hazardous waste
E.38.2.1	Treatment and disposal of non-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 11-49

Client Country

United Kingdom

Partner Sought

Type and Role of Partner Sought

Industrial, academic or research organisations currently operating in the marine waste collection sector or that would be able to provide technical support to assist in the development of a prototype are sought. The cooperation can be either technical cooperation, commercial assistance or a research agreement.

Type of Partnership Considered

Commercial agreement with technical assistance
Technical cooperation agreement
Research cooperation agreement

Knowledge-based software to assess and improve the carbon footprint of a product over its complete life cycle

Summary

An Austrian SME has developed a tool to calculate, compare, improve and communicate product carbon footprint, giving a clear indication of a product's environmental performance. It has an intuitive interface, requires no previous knowledge and provides robust results by using a comprehensive inventory database based on international standards. The company is looking for commercial agreements with technical assistance or license agreements and research and/or technology cooperation agreements.

Expiration Date 23 September 2017
Reference TOAT20160915001
Profile link

Details

Description

Products cause environmental impacts along their entire life cycle and companies are required to integrate environmental considerations into product development. Due to ever stricter regulations and increasing customer awareness, one of the most critical calculations refers to Product Carbon Footprint (PCF), a focused version of a Life Cycle Assessment (LCA), which considers only one category of environmental impacts, namely global warming. However, the environmental assessment and actual calculation itself can be very daunting tasks for people new to the field. They often do not know where to start, are hindered by restricted database access and complex software that requires expert knowledge of methods to arrive at first results. Also, many solutions only cover certain phases of the product life cycle and do not provide a complete picture.

An Austrian environmental engineering and R&D intensive SME has developed a software tool that allows users to easily calculate, compare, improve and communicate the PCF of their product over its entire life cycle: from material use to end of life and final disposal. It is specifically geared towards product developers, designers and engineers who have little or no prior experience of environmental assessments, LCA or PCF calculations. The software features an intuitive interface and provides results by using a comprehensive inventory database, following the principles set in LCA standards (ISO 14040/14044).

The program can be accessed through a web-based version or by installing a local interface, if the sensitivity of applications and data security require so. Additionally, the software offers flexible application options and is suitable for first assessments as well as in-depth analyses - depending on time, information and capacities of the user.

Data entry is enhanced based on readily available datasets. The user selects the appropriate options and values (e.g. weight, material, energy consumption etc) based on the five life cycle

phases:
1. Materials (extraction and processing): selection of different materials and supplier parts.
2. Manufacture: assembly of the various parts and components into the finished product including its accessories.
3. Distribution: transport of the finished product from its manufacturing site to the end consumer and the market.
4. Product use: scenarios based on the typical customer applications.
5. End-of-Life: treatment and disposal of products.

The software calculates the total associated greenhouse gas emissions, whereas the output section reacts instantly to changes in the input data, giving the user direct feedback on the impact of possible material choices, efficiency improvements or design changes. Product models can easily be duplicated to compare the effect of design or engineering changes or different use scenarios. Finally, the tool identifies the most relevant life cycle phase and suggests appropriate improvement strategies to decrease the environmental impact over the entire life cycle of the product.

The software is connected to a customizable database, which can be further interconnected or integrated with other external databases. The software is implemented with Javascript (NodeJS) and can be executed in a bundled form as a web-server or within a webkit-container on most common platforms. The whole look and feel can be easily adapted to a company's corporate design using mainstream web technologies (HTML, CSS).

The product is already available in international markets (Austria, Sweden) and has clients worldwide. The company is looking to offer the tool via distributors or re-sellers through commercial agreements with technical assistance or license agreements. The company is also looking to further localize or adapt the product with technology cooperation agreements or to explore further potential, co-develop or initiate complex engineering projects with research partners worldwide.

Advantages and Innovations

The tool is positioned uniquely in the market as an efficient, fast and accurate way for companies wishing to carry out a LCA of a product at an introductory or intermediate level at an affordable price.

From the technical viewpoint, the tool is not designed as a standalone PCF calculator, but aims to provide support to producers in identifying targeted and effective improvement strategies for their products. Its user interface is specifically geared towards product developers, designers and engineers who have little or no prior experience on LCA or PCF calculations.

The software offers the following advantages over current solutions:
- interactive results which respond instantly to changes in the input data, giving the user direct feedback on the impact of possible material choices, process or design changes and guides to efficiency improvements
- importing capabilities for existing data in various file formats, such as computer-aided design files and spreadsheets as well as information from product data management systems
- quick reporting function which summarizes valuable information along the entire life cycle of the product to facilitate the communication of the results
- easy to adapt to specific company requirements, i.e. users can incorporate existing bills of materials and automatically link them to the most suitable environmental datasets
- enables team collaboration: from modelling parts and components during a new product development process to incorporating supplier parts, the software enables users to easily share product models and duplicate parts
- facilitates the exchange of data along the value chain e.g., for collaboration with suppliers.

Stage of Development

Already on the market

IPR Status

Trade Marks,Copyright

Keywords

Technology

04007	Energy efficiency
04007001	Energy management
10002003	Capture and Storage of CO2
10002007	Environmental Engineering / Technology
10002015	Life Cycle Assessment

Market

02007011	Manufacturing/industrial software
08002001	Energy management
08002003	Process control equipment and systems

NACE

J.62.0.9	Other information technology and computer service activities
M.72.1.9	Other research and experimental development on natural sciences and engineering

Open for EOI : Yes

Dissemination

Send to Sector Group

Environment

Client

Type and Size of Organisation Behind the Profile

Industry SME <= 10

Client Country

Austria

Partner Sought

Type and Role of Partner Sought

1. Commercial agreement with technical assistance
Type of partner:
- Industrial SMEs
Role of partner:
- Use the software as part of their internal reporting processes as well to report against global reporting frameworks to assess their products carbon footprint using the life cycle approach.

2. Licence agreement with SMEs in international markets.
Tvpe of partner:
- Software vendors or sales agents
Role of the partner:
- Localise the software to meet the requirements of users in the country;
- Establish business channels in the country by licensing of the software.
- Introducing the software to the market.

3. Research cooperation agreement
Type & role of partner:
- Research organisations and companies looking for training of personnel within their Environmental Management Systems – e.g., EMAS or ISO 14001 schemes.
- SMEs (industry) or large public/private organizations who wish to implement common research projects on optimization of their processes and wish to implement LCA.

4. Technical cooperation agreement
Type of partner:
- SMEs focusing on industrial software
Role of partner:
- Build a network with companies that are focused on product LCA to lead generation, improve the product based on vertical market needs and secondly to provide a combination of sales and implementation services in complex industrial environments.

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

License agreement
Commercial agreement with technical assistance
Technical cooperation agreement
Research cooperation agreement