

Technology Offer

Innovative engineering and ecodesign services to increase performance of industrial processes

Summary

A French SME offers unique expertise in integration and optimization of industrial processes like technical studies, expertise (fluid networks, risk analysis, heat exchange calculations...) to processes eco-design and engineering (techno-economic and environmental feasibility, onsite implementations...). The services are new as it combines process engineering and eco-innovation. The SME is looking for industrial partners for research, technical cooperation, manufacturing or commercial agreement.

Creation Date	27 November 2015
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Reference	TOFR20151127001

Details

Description

The French SME is specialized in design office, technical assistance and advice in eco-design and eco-innovative processes for chemical manufacturing, process engineering, mechanical engineering, fluid systems and ventilation and clean technologies. Its mission aims at assisting industrial companies at technical, economic, environmental and social levels, from the first idea/initial concept to the process definition, right up to the successful implementation.

The expertise of this SME is about the vertical integration of all areas from process engineering to turnkey solutions development.

Processes eco-design is based on a LCA (Life Cycle Assessment) study, identifying which parts of the system needs improvement and assessing the levers to optimize and avoid pollution transfers.

The solutions addressed by the SME fields of expertise:

- Optimize operation costs;
- Demonstrate added value of environmental excellence;
- Base communication on concrete indicators;
- Define a development strategy of development;
- Link economic growth and sustainable development.

The company's skills include:

- Industrial sector implementation (waste management, establishment...);
- Environmental improvement of a process or product;
- Optimization of a process or product;
- Clean technologies solutions;
- Communication on environmental efficiency.

The SME has a Clean Technologies Department, labelled Young Innovative Company, which has an extensive experience in LCA (Life Cycle Assessment) application and eco-design of technologies.

In order to be able to work with a company on a technical cooperation, research, manufacturing and commercial agreement, potential partners should accept to deliver the technical, economic and environmental data required to analyse and optimize industrial processes.

The company is also interested in working with a research team to work on a research cooperation agreement (H2020, EUREKA, COSME...).

Advantages and Innovations

According to the ISO 14040 and 14044 standards, a LCA is carried out in four distinct phases:

- Goal and scope;
- Life cycle inventory;
- Life cycle impact assessment;
- Interpretation.

Its specific services developed in partnership with French leading research platforms are:

- Processes LCA - study and selection of the BAT (Best Available Technologies);
- Expertise in waste treatments and recovery;
- Development of turnkey solutions.

This French SME is currently involved as partner or coordinator into 6 national projects and 1 FP7 in fields of waste treatment, water management and energy from biomass. In this framework, the SME provides its customers unique knowledge base developed as part of its R&D projects and technological innovation. This company:

- Invests 30% of its payroll in R&D;
- Develops hydrothermal oxidation technology;
- Has a significant network of expert partners in innovative technology.

Added value:

- Global vision on the whole life cycle;
- Support through until implementation;
- Development of the environmental value of the project;
- Techno-economic optimization of the process.

Its approach:

- Global diagnosis of the activity to focus and act on the high added value items;
- LCA coupled with a technical expertise and an economic analysis to develop an action plan on:

Water: management and treatment;

Waste: treatment and recovery;

Energy: optimization and recovery;

Material: optimization of the manufacturing process and recovery.

- Proposal for workable technical and financial solutions;
- Support for implementation.

Stage of Development

Already on the market

IPR Status

Secret Know-how

Profile Origin

Other

Keywords

Technology

10002007 Environmental Engineering / Technology
10002015 Life Cycle Assessment

Market

06003006 Combined heat and power (co-generation)
06003009 Biomass and Biofuels
08004003 Water treatment equipment and waste disposal systems
08004004 Other pollution and recycling related

NACE

M.71.1.2 Engineering activities and related technical consultancy
M.72.1.9 Other research and experimental development on natural sciences and engineering

Network Contact

Issuing Partner

EUREKA Secretariat

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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 11-49

Year Established

2011

Turnover

<1M

Already Engaged in Trans-National Cooperation

Yes

Languages Spoken

English

French

Spanish

Client Country

France

Partner Sought

Type and Role of Partner Sought

- Type of partner sought : industry, research and development organisations, university
- Specific area of activity of the partner : manufacturing company (heavy and fine chemicals, food, paper mill, electrics, plastics, textile...), waste (biowaste, WEEE, SWTP's sludge...) and wastewater treatment, eco-innovative technology development
- Task to be performed : the partner should accept to deliver the technical, economic and environmental data required to analyse and optimize industrial processes

Type of Partnership Considered

- Manufacturing agreement
- Commercial agreement with technical assistance
- Technical cooperation agreement
- Research cooperation agreement