



# Technology Request

## Dutch waste management company is looking for solutions on optimal utilization of residual heat

### Summary

A Dutch waste management company which processes and recovers energy and raw materials, is looking for companies offering innovative solutions for the use of residual heat and companies interested in utilizing steam derived from its industrial processes. The company is looking for technical cooperation agreements or commercial agreements with technical assistance. The request is part of a Dutch business challenge where innovators connect with industry for collaboration opportunities.

### Description

A leading waste management company in the Netherlands is looking for collaboration partners to solve the challenge of residual heat derived from its waste incineration processes.

With energy prices increasing rapidly and the import dependency for natural gas becoming a more prominent challenge, the need for alternative and sustainable sources of energy for heat becomes more urgent. The company has a waste-to-energy plant where they process residual waste into new secondary materials and renewable energy. Part of the residual waste is incinerated. In this process, a great amount of heat is produced with temperatures up to 400 degrees Celcius. This heat is utilized to produce steam which in part is converted into renewable electricity. The renewable electricity is fed into the local grid. However, not all heat can be used for electricity and is not the sole preferred option. To increase energy efficiency, they want to turn less steam into electricity and instead provide this heat to other companies. Heat is difficult to store and transport and needs to be used locally. Therefore the industrial company is looking for new ways and solutions to make optimal use of the excess heat and derived steam.

They are looking for partners that can help with new ways and innovative solutions to make optimal use and get value out of the residual heat and steam. Partners can be companies that provide innovative technologies or processes; companies or experts that can help with new approaches or concepts to develop operations at the industrial park; and companies that are interested to make use of the available abundant sustainable heat themselves.

The company is looking for technical cooperation agreements or commercial agreements with technical assistance.

They are not interested in organisations that provide generic brainstorming sessions or lead generation for sales. They will select interested parties that can help to utilize significantly more sustainable heat within a period of four to five years.

**IMPORTANT NOTE:** This technology request is part of an innovation challenge and is published on an open innovation platform from the 2nd of May of 2022 and will close on the 6th of June. If an organization does express interest in collaboration with this company before closing date, it will be guided through this open innovation platform and will be introduced to its moderator and the company's experts. Mind that posts on this platform are not confidential.

Next step is that the company will select the SMEs with whom they would like to cooperate in the development of the solution.

### **Technology keywords**

#### **Technical specifications or Expertise sought**

The company is looking for partners who want to develop this opportunity for optimal heat utilization. Specifically companies, organisations and experts that can offer new technologies, solutions and approaches for optimal use of heat and steam.

## Company information

**Type, size and nation:** Industry >500, Netherlands

**Already engaged in transnational cooperation:** Yes

#### **NACE keywords**

- Manufacture of gas
- Production of electricity
- Steam and air conditioning supply
- Treatment and disposal of non-hazardous waste

**Sector Group:** Intelligent Energy

#### **Languages spoken**

- Dutch
- English
- German

## Partner sought

#### **Type of partnership**

- Commercial agreement with technical assistance
- Technical cooperation agreement

#### **Type and role of Partner sought**

The partner sought can be industry (food industry, chemical industry, paper industry); energy consultants, site locations consultants, facility managers, and technology developers. The foreseen tasks and activities are focused on jointly developing optimal heat utilization solutions. They envision a co-development relationship or supplier relationship.

#### **Market keywords**

#### **Type and size of partner sought**

- SME <10
- SME 11-50
- SME 51-250
- 251-500
- >500 MNE
- Inventor
- R&D Institution

#### **Targeted countries**

- All