

Partner search

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Project information

Title: Research and Innovation in Coffee machine Heating system

Acronym: RICH

Type of project: Eurostars

Project description (max 2000 characters):

The project aims to develop and bring to market a new types of coffee and hot drinks machine. The machines -home and professional versions- would feature lower energy consumption, less use of materials, particularly metal, and a longer life.

The proposed solution includes the implementation of an efficient water heating system. Currently, *large boilers* with water pressure at about 120°C in professional machines as well as *metal heat exchangers* in home and vending machines require electric power exceeding 1 kW. The system to be developed in the RICH project would dramatically reduce the machine energy consumption and the amount of metal used replacing it with bio-plastics, where possible.

The Italian SME will develop, produce and market the capsule machine and supervise the implementation of the novel coffee machine prototypes

Profile of partners sought

Roles in the project: (more than a profile will be considered for inclusion) -
technology development; technology validation; distribution model development;

Type of organisation: Industrial company; SME, research center.

Expertise required: An eligible partner should have knowledge in electronics and will be engaged with the realization of a dedicated electronic to be used for the control of the coffee machine, in the development of an heater which will turn DC electric current into a square wave at kHz frequency and which will help with thermal study on the new machine (simulation and/or infrared data acquisition).

The overall project budget will be of about 1.5 M€.

Eligible Countries: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Israel, Italy, Latvia, Lithuania, Luxembourg, the Netherlands, Norway, Poland, Portugal, Romania, Slovak Republic, Slovenia, Spain, Sweden, Switzerland, Turkey, United Kingdom.