COMBO
Project ID: NNE5/246/2001
Funded under: FP5-EESD

Development of Low Emissions Condensing Tele-controlled 400-4000 Kw Gas-fired Water Boiler Systems (combo)

From 2002-03-01 to 2005-02-28

Project details

<table>
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<th>Total cost:</th>
<th>Topic(s):</th>
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<td>EUR 3 543 993</td>
<td>1.1.4.-6.1.3 - Efficient space heating, cooling, ventilation, lighting systems and domestic appliances, and integration of renewables into buildings</td>
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<th>EU contribution:</th>
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<td>EUR 1 500 431</td>
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<th>Coordinated in:</th>
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<tr>
<td>Netherlands</td>
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Objective

To develop pre-prototypes of gas fired heating boiler systems in the power range from 400 kW to 4 MW, which have a thermal efficiency of 95% ghv and emit less than 20mg/kWh NOx. The systems consist of a cascade of 400 kW-modules and have a tele-control system via Internet or GSM with the Central Tele-servicing Office for control and maintenance and for optimising the heat production in combination with e.g. renewable sources and CHP. Very compact boilers are aimed by the integration of heat exchangers and radiant burners made of ceramic foams and of woven/knitted metal fibre mats. Two boiler pre-prototypes comprising of a horizontal flat burner and a vertical cylindrical burner will be developed and tested. A new type of metallic burner mat will be developed that might lead to even more economic burners. Heat exchanger tubes will be developed which are optimised for the heat transfer by radiation and convection.

Coordinator

N.V. NEDERLANDSE GASUNIE
Concourslaan 17
GRONINGEN
Netherlands

Administrative contact: Roy BILBE
Tel.: +31-50-5212547
E-mail

Participants
Commissariat à l’Energie Atomique  
17, rue des Martyrs  
38054 Grenoble  
France  
See on map

Administrative contact: Anne FALANGA  
Tel.: +33-14-6549340  
Fax: +33-14-6548232  
E-mail

ECOCERAMICS BV  
Staalstraat 10 - (3J01)  
VELSEN-NOORD  
Netherlands

Administrative contact: Herman GOVERSE  
Tel.: +31-25-1229212  
Fax: +31-25-1229615  
E-mail

FABRYKA APARATURY I URZADZEN FAMET SA  
SZKOLNA 15A  
KEDZIERZYN-KOZLE  
Poland

Administrative contact: Janusz PRZYBYLA  
Tel.: +48-77-4886802  
Fax: +48-77-4818052  
E-mail

Gaz de France  
361, av. du Président Wilson  
93211 Saint-Denis La Plaine  
France  
See on map

Administrative contact: Jean François CARRIERE  
Tel.: +33-1-49225000  
Fax: +33-1-49224949

INSTITUTO DE SOLDADURA E QUALIDADE  
Av. PROF. DR. CAVACO SILVA, No. 33, TALAIDE, TAGUSPARK - APARTADO 119  
PORTO SALVO  
Portugal

Administrative contact: Eduardo DIAS LOPES  
Tel.: +351-21-4228179  
Fax: +351-21-4229018  
E-mail
Viale Astride Merloni, 45
60044 Fabriano (AN)
Italy
See on map

**Administrative contact:** Lucio LATINI
Tel.: +39-073-2603601
E-mail

N.V. ACOTEC S.A.
Bekaertstraat, 2
8550 Zwevegem
Belgium
See on map

**Administrative contact:** Boudewijn DE LOOSE
Tel.: +32-5-6766902
Fax: +32-5-6766463
E-mail

National Technical University of Athens
9, Heroon Polytechniou str.
15780 Zografou, ATHENS
Greece

**Administrative contact:** Simos SIMOPOULOS
Tel.: +30-210-7721949
Fax: 30-210-7723663
E-mail

VAN DIJK HEATING B.V
Regulierenring 7 - 29
BUNNIK
Netherlands

**Administrative contact:** Piet VAN DIJK
Tel.: +31-30-6563844
Fax: +31-30-6563564
E-mail

**Subjects**

Construction Technology - Economic Aspects - Energy Saving - Renewable Sources of Energy

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