Home > ... > H2020 >

Condensed Heat - Optimization and scaling up of an energy efficient, long-during biomass condensation boiler with curved heat exchanger



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Fact Sheet

Project Information

C-Heat

Grant agreement ID: 711007

Project website 🗹

DOI 10.3030/711007

Project closed

EC signature date 9 December 2015

Start date 1 December 2015 Funded under SOCIETAL CHALLENGES - Secure, clean and efficient energy

Total cost € 71 429,00

EU contribution € 50 000,00

Coordinated by BIOCURVE

Objective

BioCurve and Quintín laid the groundwork for a new generation of condensing boilers. We have developed a biomass condensing boiler that has been internationally awarded, which led C-Heat to surpass from far the current state of art, in terms of performance, ripping design and price. By taking advantage of the

End date

31 March 2016

identified market opportunity, C-Heat will contribute to the growth of BioCurve and Quintín with a turnover of 6.7Mio. € and 20 new jobs by 2022 introducing an innovative technology powered by renewable organic sources and available in a broad range of power outputs. Former technologies for domestic heating are either unsuitable for moving forward towards a sustainable energy model across EU, or insufficient in terms of energy efficiency. In order to overcome these issues, Biocurve and Quintin have developed a cutting edge biomass boiler capable of working under condensing conditions. Thanks to a novel spiral heat exchanger that enhances 50% the exchange surface, C-Heat compact solution shows > 100% energy efficiency by capturing almost all latent heat of condensation of water vapor in the exhaust stream. In addition, an accurate control of the system enables low temperature applications (i.e. radiant floors). Until now, C-Heat has passed rigorous technical assessments, procuring international quality standards certifications. Also, several units are well operating in real condition, installed in private apartments since 2013. Therefore, an appropriate technology readiness level together with the unmet needs invite us to establish an ambitious but achievable aim for the next years: To become an international reference in the bio heating domestic and tertiary segments as well as the small scale industry. In fact, it does lead us to believe that C-Heat is potentially the best solution for the appointed market niches, if we notice its competitive price and its unique features.

Fields of science (EuroSciVoc) ()

<u>engineering and technology</u> > <u>environmental engineering</u> > <u>energy and fuels</u> > <u>renewable energy</u> <u>agricultural sciences</u> > <u>agricultural biotechnology</u> > <u>biomass</u>

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Programme(s)

H2020-EU.3.3. - SOCIETAL CHALLENGES - Secure, clean and efficient energy (MAIN PROGRAMME

H2020-EU.2.3.1. - Mainstreaming SME support, especially through a dedicated instrument

Topic(s)

SIE-01-2015-1 - Stimulating the innovation potential of SMEs for a low carbon energy system

Call for proposal

H2020-SMEInst-2014-2015

See other projects for this call

Sub call

H2020-SMEINST-1-2015

Funding Scheme

SME-1 - SME instrument phase 1

Coordinator



BIOCURVE

Net EU contribution

€ 50 000,00

Total cost

€ 71 429,00

Address

C/Maria de Luna 11. Nave 8 50018 Zaragoza Spain

SME i

Yes

Region

Noreste > Aragón > Zaragoza

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

Contact the organisation C Participation in EU R&I programmes C HORIZON collaboration network

Participants (1)

CURVADOS QUINTIN S.L

Spain

Net EU contribution

€ 0,00

Address

POLÍGONO INDUSTRIAL BAKIOLA, 35-B 48498 Arrankudiaga

SME 🚺

Yes

Region

Noreste > País Vasco > Araba/Álava

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

Contact the organisation C Participation in EU R&I programmes C HORIZON collaboration network

Total cost

No data

Last update: 11 August 2022

Permalink: https://cordis.europa.eu/project/id/711007

European Union, 2025