

	EUROPEAN COMMISSION RESEARCH AND INNOVATION DG	Assessment Report
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Project No: 285158

Project Acronym: HEAT4U

Project Full Name: Gas Absorption Heat Pump solution for existing residential buildings

Assessment Report

Period covered: from 01/11/2011 to 30/04/2013

Date of preparation: 02/08/2013

Start date of project: 01/11/2011

Date of submission (SESAM): 02/08/2013

Duration: 36

Project coordinator name:
Mr. Luigi Tischer

Project coordinator organisation name:
ROBUR SPA

Version: 1

Project Assessment performed by Scientific/Project officers

General Information

Grant Agreement number:	285158
Project acronym:	HEAT4U
Project title:	Gas Absorption Heat Pump solution for existing residential buildings
Funding Scheme:	FP7-CP-IP
Project starting date:	01/11/2011
Project duration:	36
Name of the scientific representative of the project's coordinator and organisation:	Mr. Luigi Tischer ROBUR SPA
Period covered - from:	01/11/2011
Period covered - to:	30/04/2013
Date of review meeting (if applicable):	
Name of the Project Officer drafting the report:	Mr Alexandre D'ANGELO

1. Overall Assessment

	Project has fully achieved its objectives for the period and/or has delivered unexpected results with significant immediate or potential impact (even if not all objectives mentioned in the technical annex were achieved).
Comments	Residential buildings represent 60% of the building stock and the area where most of the potential to drastically reduce energy use and CO2 emissions lies. New directives push for deep retrofitting efforts, in order to achieve energy efficiency and RES adoption targets for 2020 and beyond. These require acting both on building envelope and on energy use for space heating and warm water. Replacing existing boilers in existing buildings by high efficient systems are not always suitable or cost effective (radiators, DHW, solar radiation in winter, ...). This project aims at replacing existing gasboilers and competing with electric heat pumps by high efficient gas absorption heat pumps, permitting to save 20% and more primary energy. Gas absorption heat pumps is a known technology in industry, but a heatpump for the residential market (10...25kW) is actually not available on the market. The work during this first period was mainly focused on market survey, technical specifications, noise abatement, health and safety aspects. The option was taken to develop a GAHP of 18kW, the most suitable "average" size for the EU market. If test results confirm the expected efficiency (GUE), the roll out on the market can start immediately at the end of the project. The market penetration can grow rapidly and as a consequence, the savings on primary energy.

2. Objectives and Workplan

a. Is the progress reported in line with objectives as specified in the grant agreement (DoW/Annex I)?	Yes
Comments	
	"Time to grant" was quite high, this caused a delay in start date. Till then, progress reported in line with objectives as specified in the grant agreement (DoW/Annex I).
b. Are the deliverables in line with those specified in the DoW? If there are significant deviations, please comment.	Yes
Comments	
	All deliverables are in line with the DOW, but reports D1.1 and D1.2 still need to be uploaded in SESAM.

3. Resources

a. Are the costs charged – based on the information provided in the section "Explanation of the use of resources" of the report – in compliance with the work progress described in the report for the relevant period?

Yes

Comments

On the base of the information provided in the section "Explanation of the use of resources" – of the report, the costs charged seem to in compliance with the work progress described in the report for the relevant period.

4. Implementation of the Project

a. Have the management aspects been properly addressed and are they in line with the obligations of beneficiaries ?

Yes

Comments

The project manager (and his team) is doing not only good coordinating and managing work, but is also very competent in the technical and business aspects of the project.
This is very valuable for the progress, the quality of the work and product launch.

b. Have the beneficiaries disseminated project results (foreground) and information as foreseen in the DoW (the project web site, publications, conferences...), including, if applicable, the deposition of publications in open access repositories (Special Clause 39)?

Yes

Comments

Comments

The gas-absorption heatpump technology is well known, but the residential application was lacking. Residential GAHP can replace existing gas-condensing boiler and save 20% and more primary energy.

If the GAHP can be operated with biogas, the environmental impact will be even higher!

It is recommended to do the ESS seminar. It is a good help for the elaboration of the business plan as it will bring the most attractive exploitable results to the surface.

There is a very good and detailed communication and dissemination plan.

Many communication actions have already been completed.

Direct "live" actions like conferences, workshops, exhibitions, round tables... but also actions via the e-channels websites, youtube, facebook, newsletters, e-learning...

Additionally there are a lot of new actions on the programme.

One of the major concerns is the "awareness building" in almost all groups of the society.

Politicians, consumers, architects, installers, end users... they all need to know about the GAHP, its energy saving potential and its qualities as valid alternative for existing boilers (fuel and gas).

c. Has the plan for use/exploitation of results been appropriately executed? (when applicable)

Not Applicable

Comments

The communication plan is very well elaborated.

The business development plan and product launch plan still need to be worked out.

The members of the consortium have their own network and sales channels. Business development

will most probably be done by each partner individually.

5. Flag the Project - Not related to the 'certified as correct'

Flag(s) for the project

No

Comments

The communication plan is very well elaborated.
The business development plan and product launch plan still need to be worked out.
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6. Edition of publishable summaries

I declare that I have reviewed the publishable summary, the project web site address and the related attached documents submitted by the Project Coordinator (as well as the publishable documents provided in the final report in case of the last reporting period) and I find them suitable for publication, i.e. on CORDIS or via other channels.

Attachments	
Name	
Date	

This declaration was visaed electronically by Alexandre D'ANGELO (ECAS user name angelax) on 02/08/2013