

## H2020 Work Programme



### D7.4 – UPDATE OF DISSEMINATION AND COMMUNICATION PLAN

**Lead Contractor:** Sustainable Innovations Europe (SIE)

**Date:** 24/11/2020

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<b>Project title</b> Supporting new Opportunities for Waste Heat And cold valorisation Towards EU decarbonization			
<b>Project acronym</b>	SO WHAT	<b>Start / Duration</b>	June 2019 (36 months)
<b>Coordinator</b>	Rina Consulting S.p.A. – RINA-C		
<b>Website</b>	<a href="http://www.sowhatproject.eu">www.sowhatproject.eu</a>		

<b>Deliverable details</b>			
<b>Number</b>	7.4		
<b>Title</b>	Update of Dissemination and Communication Plan		
<b>Work Package</b>	7		
<b>Dissemination level<sup>1</sup></b>	PU = Public	<b>Nature</b>	Report
<b>Due date (M)</b>	30.11.2020 (M18)	<b>Submission date (M)</b>	24.11.2020
<b>Deliverable responsible</b>	Sustainable Innovations Europe – SIE		

<sup>1</sup> PU = Public  
CO = Confidential, only for members of the consortium (including Commission Services)

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Document History		
Date	Version	Changes
06.10.2020	1	First draft
08.10.2020	2	Implemented some changes from the technical reviewer
28.10.2020	3	All feedback from partners implemented
18.11.2020	4	Inclusion of last information (webinar, press release and final analytics)
24/11/2020	Final	Introduction of last corrections and quality checks

## Acronyms and abbreviations

**AC:** Academia  
**AS:** Associations  
**CF:** Consulting firms  
**DHC:** District Heating and Cooling operators  
**EA:** Energy agencies  
**EC:** European Commission  
**EU:** European Union  
**GP:** General Public  
**HRE:** Heat Recovery  
**IP:** Industrial parks  
**IS:** Industrial sites  
**LCT:** Life-cycle-thinking  
**PA:** Public authorities  
**PM:** Policy makers  
**RES:** Renewable Energy Sources  
**TM:** Trade media  
**WH/R:** Waste heat recovery technologies  
**WH/C:** Waste Heat and Cold



## EXECUTIVE SUMMARY

This document contains an update of the Dissemination and Communication Plan that outlines the activities undertaken in the first 18 months, as well as the actions to be adopted next and until the final version is issued at the end of SO WHAT project (M36).

The objective of the communication and dissemination activities of the SO WHAT project is to ensure information about the project's objectives and results are effectively disseminated to relevant audiences and to promote the use of project results by the relevant industry stakeholders.

The Communication and Dissemination plan delivered in M6 identified the goals and approaches for providing information about the SO WHAT project to the target audiences at local, national and EU level. This included defining key messages and selecting appropriate tools and channels (including relevant conferences and events) to effectively disseminate the outcomes of the project.

The purpose of this document for the SO WHAT project is to formalize dissemination and communication actions, as well as to provide guidelines on the approach. Marketing media, the press, magazines, broadcast news, television, radio and Internet;

The main objectives of the Dissemination and Communication Plan are:

- To document undertaken and proposed dissemination and communication activities through a detailed and updated plan.
- To ensure the project results reach the relevant stakeholders for a wider waste heat and cold (WH/C) exploitation promotion.
- To raise interest in the proposed technology, of potentially interested parties across relevant stakeholders.
- To promote WH/C recovery projects, along with the benefits they can provide, toward potential target end-users/adopters to speed up renewables (RES) energies adoption and take-up in industrial process.
- To promote proactively education and training to various audiences on the SO WHAT project and its results by providing targeted information.

The main goal of this update is to review the activities carried out and to analyse their performance and impact, assessing whether corrective actions are needed.

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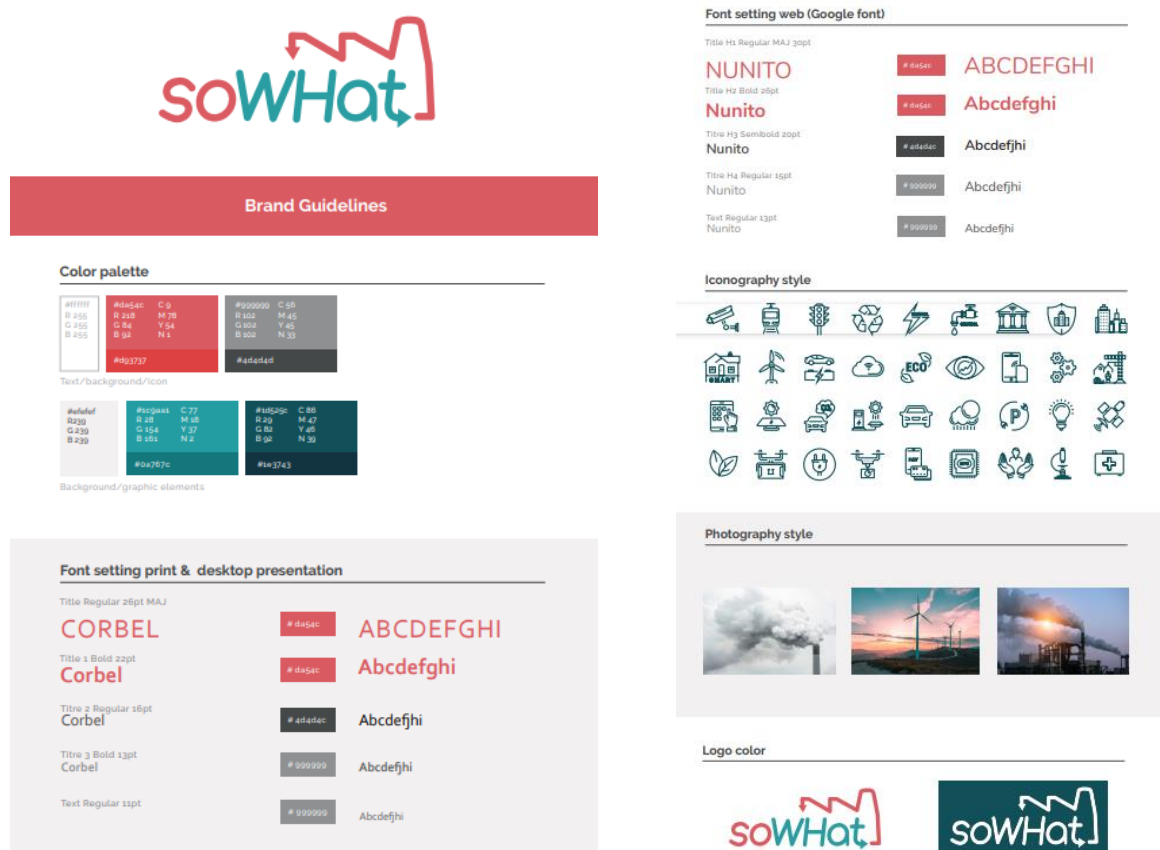
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# 1 REVIEW ACTIONS M1-M18

## 1.1 Project branding development and printed materials

At the beginning of the project, SIE worked on the corporate branding defining the colour palette, font setting and iconography style.

Image 1: SO WHAT brand guidelines




Following this, the brochure, poster, roll up and factsheet were produced and uploaded to the website: <https://sowhatproject.eu/documents/#downloads> Likewise, a project presentation with generic information was also delivered to suit the partner dissemination needs.

In terms of internal communication, SIE also developed in month 1 the necessary templates for the different management needs (i.e. Word, PowerPoint and deliverable templates), following the corporate brand guidelines and engaged with the partner coordinators RINA and IES, and with the rest of the consortium partners to ensure their correct use.

Image 2: SO WHAT brochure


### METHODOLOGY




Algorithms development for WH/C valorisation potential analysis



Unlock industrial WH/C valorisation via suitable business and contractual models to be incorporated in the SOWHAT software for a complete techno-economic evaluation



Development and validation of SO WHAT software



SO WHAT Replication campaign thanks to Stakeholders engagement



Dissemination and preparation of future commercial deployment of SO WHAT tool

### ABOUT

SO WHAT aims to develop and validate, through different sector and countries real industrial test cases, an integrated software for auditing industrial process, planning and simulation of waste heat and cold (WH/C) valorisation systems towards the identification of economically viable scenarios where WH/C and renewable energy sources (RES) cooperate to match local demand.

### OBJECTIVES

SO WHAT will ensure a maximum prediction error in energy recovery estimate and CBA results between 5% and 10%.

SO WHAT will reduce the cost and time related to Energy Audits, and thus WH/C recovery projects, up to 0.4 €/m2 and 3-5 day/audit (number of visits reduction)


SO WHAT will progressively increase the number of new project on industrial WH/C recovery, resulting in 27,705 accumulated projects by 2030.


SO WHAT will reach at least 36 industrial sites, including 24 SPIRE industries, 4 industrial parks, 12 public authorities, including 16 energy agencies, 12 DHC operators (energy companies), 24 associations and 4 RTO by 2021.


SO WHAT is expected to trigger the creation of around 2,815 new jobs between 2023 and 2030.





### CONSORTIUM






























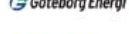



























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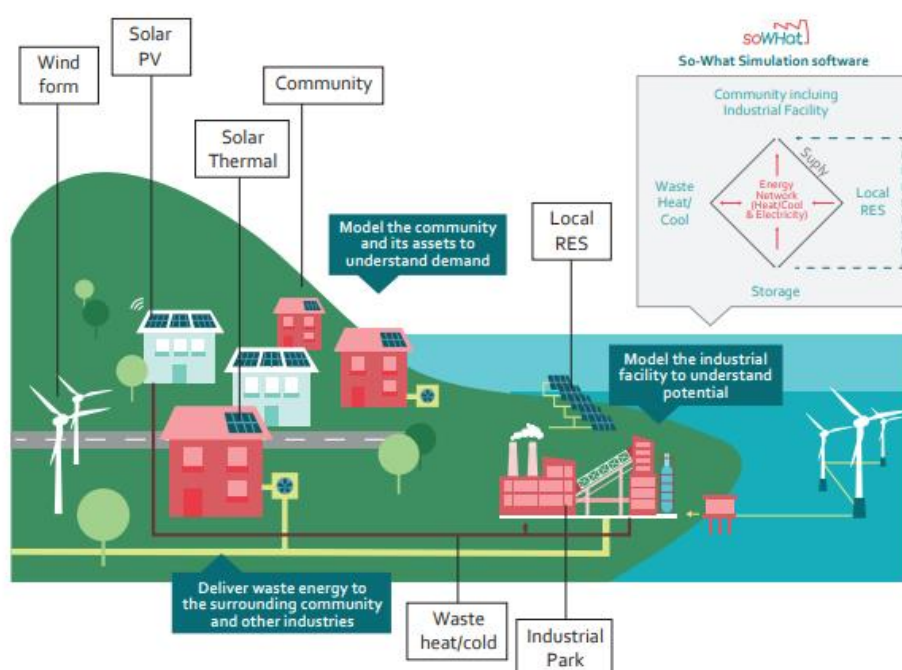
Image 3: SO WHAT poster





## OVERALL CONCEPT

SO-WHAT will develop a first-of-a-kind simulation software that will:

- Model an industrial facility and identify potential with respect to waste heat, cool (H/C) and surplus RES
- Model the community and its assets (e.g. local RES, storage, flexible loads etc.) to understand the demand profile of the community, which can utilise the waste H/C and RES
- Identify the delivery mechanism(s) for how waste H/C and surplus RES can be provided to the Community and/or other industries and the technical, commercial, legal and financial incentives for doing so.



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Image 4: SO WHAT roll up



## ABOUT

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## METHODOLOGY



## CONSORTIUM



[www.sowhatproject.eu](http://www.sowhatproject.eu)
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Image 5: SO WHAT factsheet



Image 6: SO WHAT Presentation



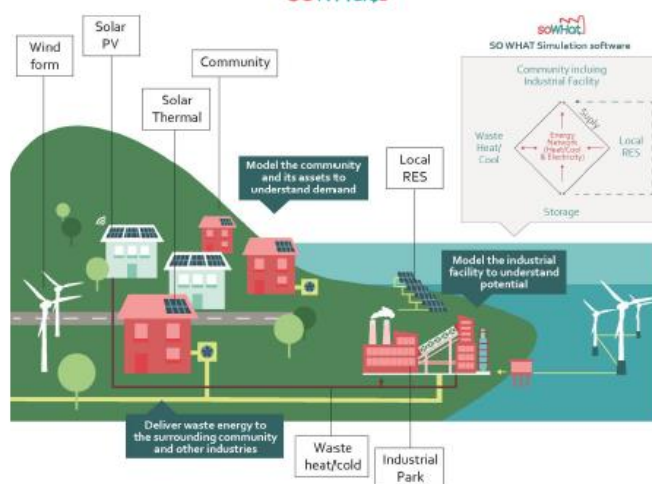


## ABOUT

### The project

SO WHAT aims to develop and validate, through different sector and countries real industrial test cases, an integrated software for auditing industrial process, planning and simulation of waste heat and cold (WH/C) valorisation systems towards the identification of economically viable scenarios where WH/C and renewable energy sources (RES) cooperate to match local demand.

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## METHODOLOGY



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Development and validation of SO WHAT software



Unlock industrial WH/C valorisation via suitable business and contractual models to be incorporated in the SO WHAT software for a complete techno-economic evaluation



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## OBJECTIVES



1. SO WHAT will ensure a maximum prediction error in energy recovery estimate and CBA results between 5% and 10%.
2. SO WHAT will reduce the cost and time related to Energy Audits, and thus WH/C recovery projects, up to 0.4 €/m<sup>2</sup> and 3-5 day/audit (number of visits reduction)
3. SO WHAT will progressively increase the number of new project on industrial WH/C recovery, resulting in 27,705 accumulated projects by 2030.
4. SO WHAT will reach at least 36 industrial sites, including 24 SPIRE industries, 4 industrial parks, 12 public authorities, including 16 energy agencies, 12 DHC operators (energy companies), 24 associations and 4 RTO by 2021.
5. SO WHAT is expected to trigger the creation of around 2,815 new jobs between 2023 and 2030.



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## CONSORTIUM



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**soWHat**

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## 1.2 Online actions

### 1.2.1 Website

SIE, in collaboration with the consortium partners, launched the project website <https://sowhatproject.eu/> (deliverable 7.1) in August 2019 (M3).

On the menu, the following sections were created: About, Documents, Training, News, Contact and Private area.

The 'About' submenu comprises four (4) subsections to introduce the project: Project, Partners, Demo Sites and Related Projects. The first one includes also three (3) subsections: Objectives, Impact, Implementation. They briefly present the value proposition of the SO WHAT project including pictures, graphics, figures and messages to let the audience understand what the project is about and why it is innovative and marketable. The Partners section includes a description of each organisation involved in the project. The Demo Sites includes all the 11 validation sites with a picture and a short description. While the related projects section presents similar initiatives and links to their websites.

On the 'Documents' submenu, visitors can find all the project documents (press releases, newsletters, marketing materials) as well as the public deliverables submitted to the European Commission project portal.

On the training area all the relevant information related to the formative sections and the capacity building materials will be located. The e-Learning sections will be settled on the project website and maintained using the latest technology to develop a user-friendly platform. The e-learning section will be designed with an easy-to-follow structure with clear, modern graphics design focused on presenting the value of the content. From these aspects, SO WHAT has successfully launched the website, it will require further development of it to manage aspects, like registrations and the log-in access towards the training material and session.

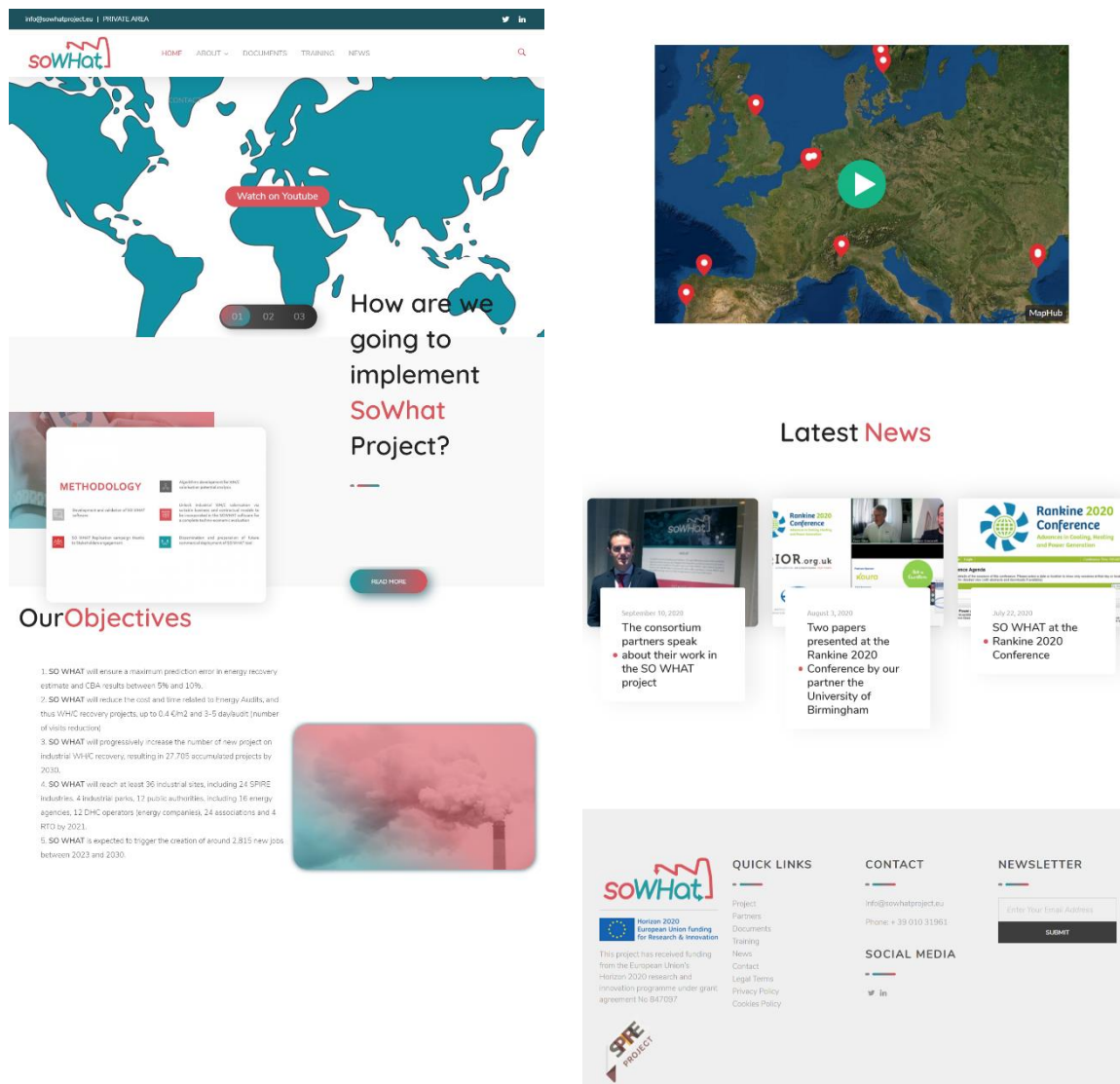
The 'News' submenu is useful to inform on recent developments within the project.

The 'Contact' section presents the project coordinator's contact details and a field's box where audiences can send messages that will be directed to the coordinator or partners when appropriate via a dedicated email address: [info@sowhatproject.eu](mailto:info@sowhatproject.eu).

Social media icons (LinkedIn, Twitter and YouTube) appear in the header, while the generic contact email and the coordinator's phone number, in the footer.

As a living platform, the website has evolved during the project to include the first project video on the homepage, to include the YouTube link on the top of the page, to include the "Demo Sites" and "Related Projects" sections, to inform about the latest project advancement and outcomes in the News section, and to upload the submitted deliverables and the available project documents.

Image 10: Website Homepage



During the first 18 months of the project, the following documents have been uploaded:

#### REPORTS:

- Report on current contractual arrangement for WHC exploitation
- Requirements for data formats and indicators
- Report on current barriers to industrial WHC recovery and exploitation.
- First Release of SO WHAT Industrial Sector WH/C recovery potential
- Report on WH/C recovery technologies and thermal storage technologies
- Report on end user's Current Status
- Project Website and Social Media
- First Version of Dissemination and Communication Plan
- SO WHAT Training plan

## NEWSLETTERS

- First So What Newsletter
- Second So What Newsletter
- Third So What Newsletter
- Fourth So What Newsletter
- Fifth So What Newsletter

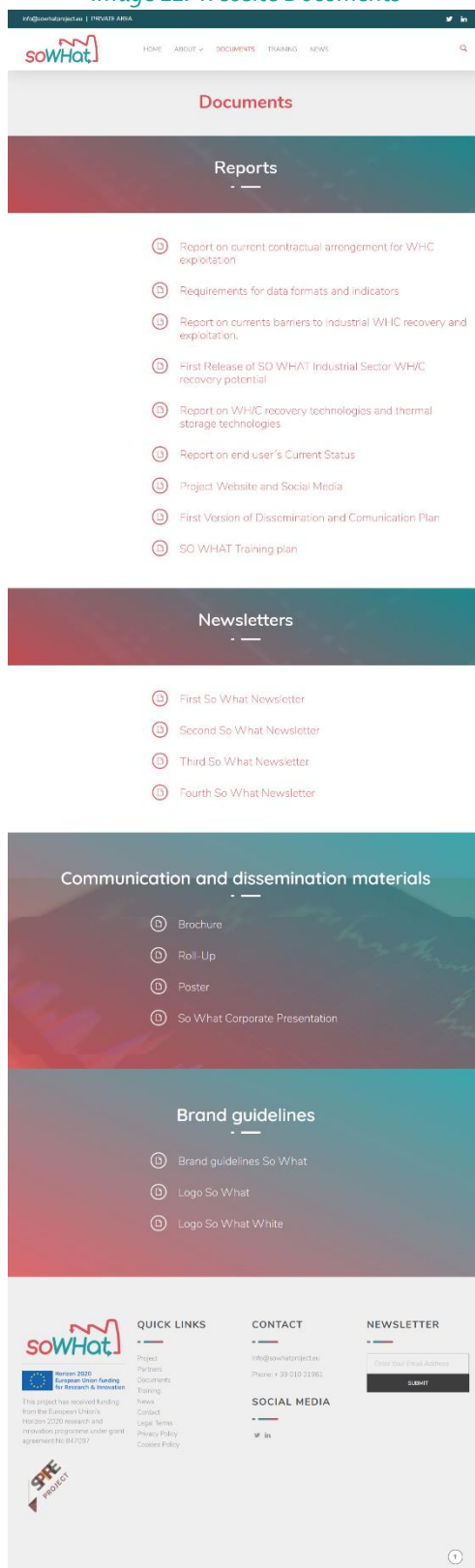
## COMMUNICATION AND DISSEMINATION MATERIALS

- Brochure
- Roll-Up
- Poster
- So What Corporate Presentation

## BRAND GUIDELINES

- Brand guidelines So What
- Logo So What
- Logo So What White

Image 11: Website Documents



13 posts about the project outcomes, participation of the consortium partners in events and other relevant milestones have been uploaded since the project kicked-off in June 2019:

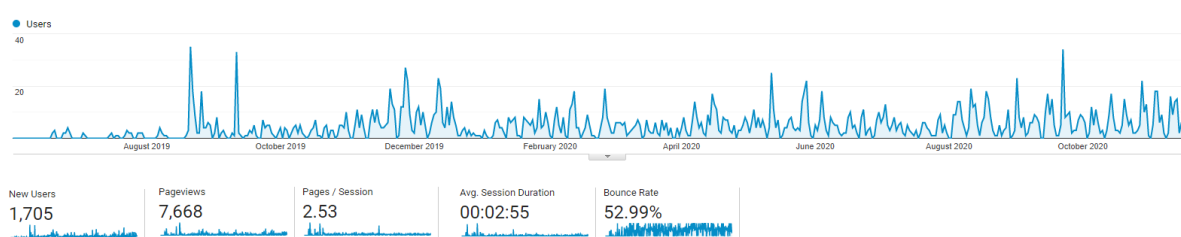
- [SO WHAT hosts meeting, co-creation workshop and panel in Antwerp](#)
- [User requirements for the SO WHAT tool](#)
- [SO WHAT hosts online consortium meeting](#)
- [The consortium partners speak about the importance of the SO WHAT project](#)
- [SO WHAT Project Exploitation Workshop](#)
- [SO WHAT at the Rankine 2020 Conference](#)
- [Two papers presented at the Rankine 2020 Conference by our partner the University of Birmingham](#)
- [The consortium partners speak about their work in the SO WHAT project](#)
- [SO WHAT holds consortium meeting](#)
- [SO WHAT hosts webinar with related projects](#)
- [SO WHAT at Sustainable Places](#)
- [R-ACES to join SO WHAT webinar on waste heat recovery and energy cooperation](#)

In the first 18 months of the project, SO WHAT has gained 1,705 new users on its website, with 7,668-page views in total and an average session duration of 2 minutes 55 seconds.

At the beginning of the project, a KPI of 1,500 visitors and an average of 2.5 minutes stay was established. The stay rate is already achieved, and at the current rate the number of visitors is likely to be achieved too by the end of the project. Moreover, the number of pageviews is 7,668, quite a high number for the project's current stage.

A common session duration is usually between 1 and 2 minutes, the 2:55 minutes achieved indicates high visitor engagement and interest in the project.

*Image 12: Website Analytics (17/11/2020)*



### 1.2.2 Newsletter

Electronic newsletters are been prepared every 3 months, and include project updates, announcements, interviews and other information related to SO WHAT. They are distributed to stakeholders and partner networks and posted on the project website.

From the beginning of the project, a Mailchimp (mailing platform) account was established and the possibility to subscribe to the newsletter via the website was given to visitors.

So far, five of them were issued (M3, M6, M9, M12, M15) and uploaded to the project website / documents / newsletters. Each time the Newsletter is released a campaign in social media follows.



Table 1: Newsletter impact

	Mailchimp	Twitter	LinkedIn
1 <sup>st</sup> newsletter	0	675	258 impressions
2 <sup>nd</sup> newsletter	52 recipients (14 readers)	4,056	614 impressions
3 <sup>rd</sup> newsletter	68 recipients (29 readers)	3,922	3,075 impressions
4 <sup>th</sup> newsletter	324 recipients (91 readers)	642	521 impressions
5 <sup>th</sup> newsletter	322 recipients (88 readers)	1,391	830 impressions

Here it is important to highlight that those newsletters that reached a bigger impact on Twitter were retweeted by some of the partners, such as CARTIF, IES, FAEN and the University of Birmingham.

1,000 recipients are expected by the end of the project. Although this is not easy to achieve due to GDPR through the mailchimp distribution, it is certainly feasible if the number of readers reached on social media are included. Right now, there is an average of 2,137 people reached by the newsletter on Twitter, and 1,059 on LinkedIn.

### 1.2.3 Social media

The first social media channels ([LinkedIn](#) and [Twitter](#)) were set up by SIE in M1, while the [YouTube](#) channel was created once the first official video of the project was released in M6.

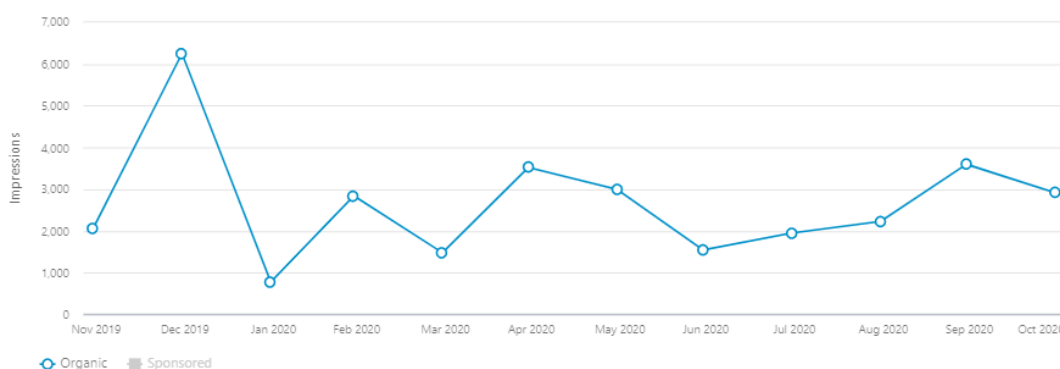
#### 1.2.3.1 LinkedIn

SO WHAT presence in LinkedIn has reached 397 followers after 60 updates (posts).

The engagement rate of this platform is, in average, 8.2% (more than 3% is usually considered excellent performance).

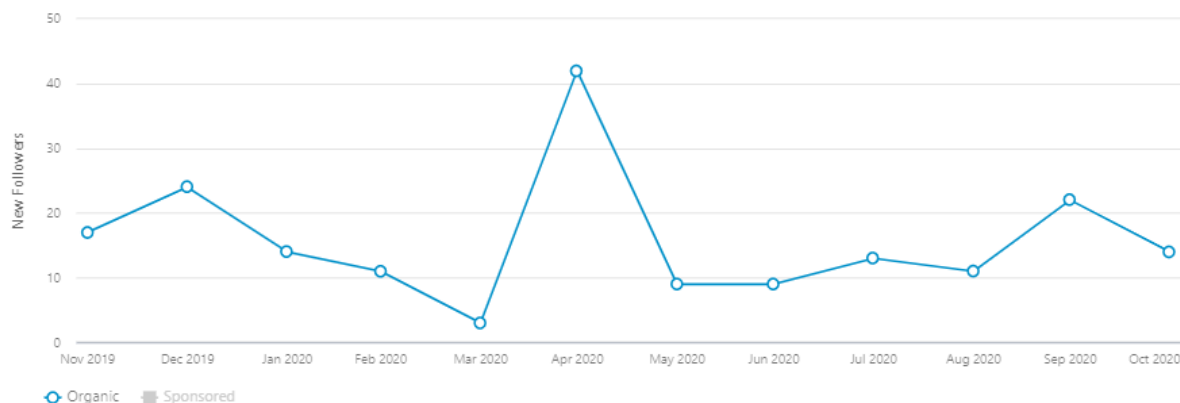
The number of impressions (views) has grown to reach 34,474 by November 17, 2020. A peak on the views was registered during our General Assembly meeting, co-creation workshop and participation in District Heating Workshop in Antwerp in December. In addition, April 2020 saw another peak due to our second General Assembly Meeting and Exploitation workshop, and also September after the summer, potentially this last one related to the launch of the newsletter and the creation of new relevant content such as the demo sites and the related project sections on the website.

Image 13: LinkedIn impressions from November 2019 to October 2020. LinkedIn shows analytics for only the last 12 months.



The same peaks that can be seen regarding impressions of the publications is perceived when looking at the followers trends.

Image 14. LinkedIn followers from November 2019 to October 2020.



When it comes to the demographics of the users visiting our LinkedIn page, between one fourth and one fifth of them are engineers.

Image 15. LinkedIn page visitors by industry from September 2019 to August 2020.

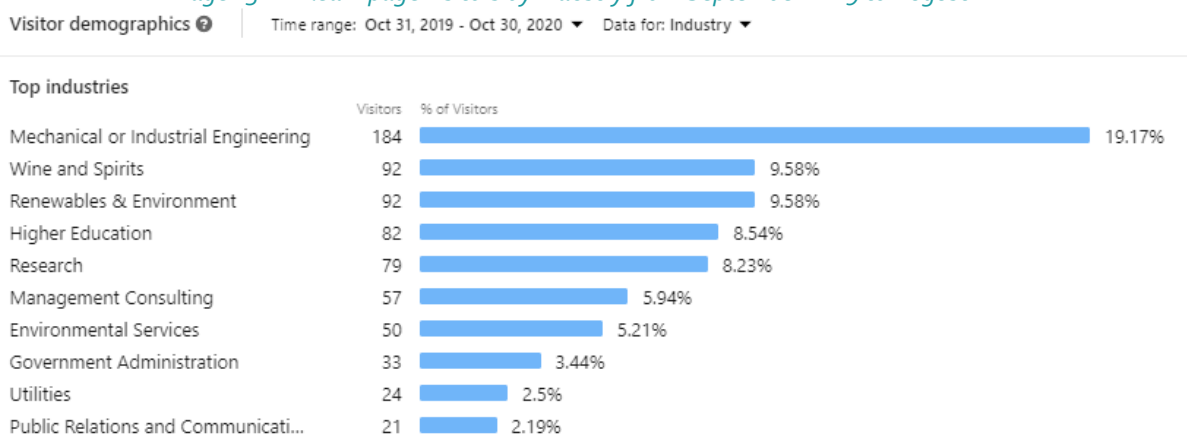
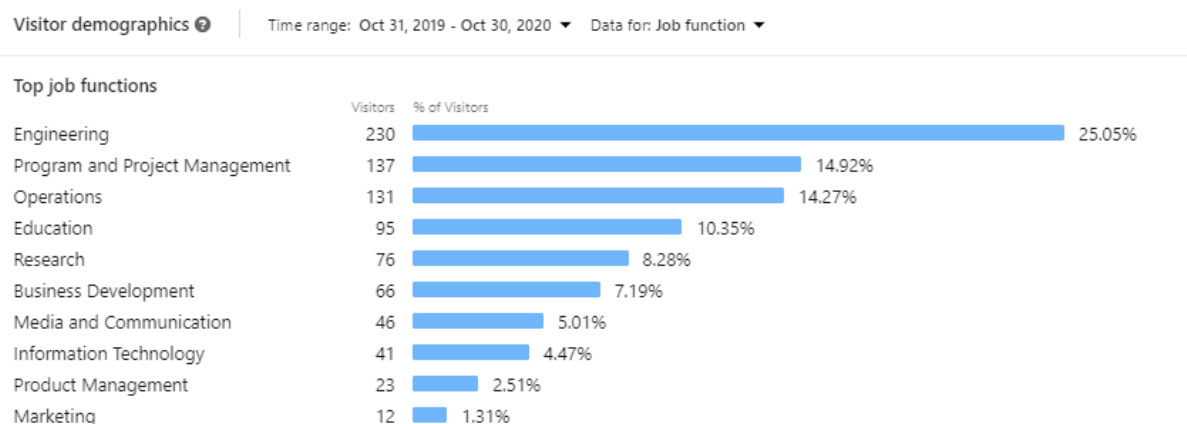


Image 16. LinkedIn page visitors by job function from September 2019 to August 2020.



### 1.2.3.2 Twitter

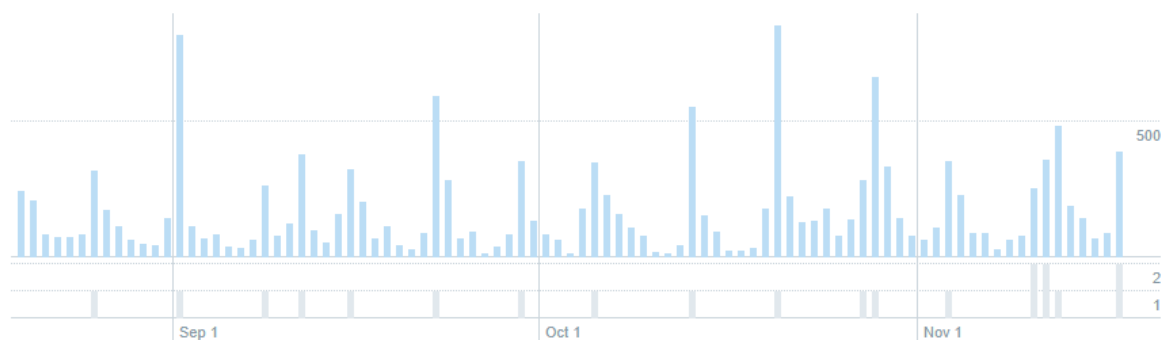
As of November 17, 2020, SO WHAT has 103 followers on Twitter and 106 tweets. The current engagement rate is 2%. Anything above 0.5% is considered a very great level of engagement, which



shows that the project Twitter followers are qualified leads, and they are interested in the project. The contents on the profile have generated 82,500 views. One of the main differences between the analytics of LinkedIn and Twitter remains mainly in the nature of each of them. All the professional contacts are more frequently found on LinkedIn, while Twitter is usually more oriented to a personal use. The reason to be on Twitter is that the number of views that is usually higher than on LinkedIn.

*Image 17. Impressions on Twitter*

**Your Tweets earned 15.5K impressions over this 91 day period**



### 1.2.3.3 YouTube

At least two videos were expected to be produced along the project life. The first SO WHAT project [video](#) was produced and uploaded to YouTube in M7.

To date, the channel has 8 subscribers and SO WHAT has made 5 videos public: the project video already described above and four interviews with the SO WHAT Consortium members carried out during the M6 General Assembly meeting. In total these videos have received 514 views.

The interviews with the consortium members were conducted during the M6 meeting in Antwerp and resulted in 4 videos. SIE has been releasing each of them in differentiated social media campaigns throughout the period from March to May 2020 in order to keep interest high by releasing a steady stream of content. This is particularly important during the current Coronavirus pandemic, which makes it more difficult to generate new content as fewer meetings and events are taking place.

## 1.3 Offline actions

### 1.3.1 Press Release

A press release to announce the joint webinar with related projects was launched on November 3<sup>rd</sup>. It was shared to 60 media outlets / journalists, it was uploaded to Buildup and to the Cordis News Portal, as well as to the Alphagalileo website. In addition, all the projects shared the news on their own website.

Image 18. Press release launched on November 3

## SO WHAT, EMB<sub>3</sub>RS, INCUBIS AND S-PARCS TO HOST WEBINAR ON INDUSTRIAL WASTE HEAT RECOVERY

Genoa, Italy, November 3, 2020. The smart and sustainable energy projects SO WHAT, EMB<sub>3</sub>RS, INCUBIS and S-PARCS, are organizing a joint webinar: [Waste heat recovery and energy cooperation in European Industries](#), to be held on November 18. These four sister initiatives, funded under the European Union's Horizon 2020 research and innovation programme, will present their work on industrial WH/C recovery, the tools they are developing to empower it, and potential synergies between industrial parks and the surrounding community.

The aim of the session is to explore different solutions to enhance a smart and sustainable energy use in industrial contexts, as well as WH/C recovery and reutilization, to find synergies between the work the different projects are carrying out, and to raise awareness among stakeholders on the new tools under development. Likewise, the webinar will include time for discussion and questions from the audience. Participants will leave with a deeper understanding of how to optimize energy use and recovery in industrial environments.

Heating and cooling are the largest sources of energy demand in Europe and, at the moment, they are mainly covered by fossil fuels, while low carbon energy sources like waste heat and cold recovery and renewable energy sources remain marginal. Nevertheless, current studies showed that, in the would be sufficient to cover the entire EU's heating needs. This would foster the EU's decarbonisation while reducing its dependence on fossil fuels.

To achieve this, several projects are developing technologies and software tools to facilitate waste heat and cold recovery, as well as the integration of cooling and heating demand with renewable energysources.

**SO WHAT** (acronym for Supporting new Opportunities for Waste Heat And cold valorisation Towards EU Decarbonization) is developing an integrated software to identify and simulate how industrial WH/C could cost-effectively balance with the local community's forecasted energy demand, and how this could be integrated with renewable energy systems. The tool, designed to support different stakeholders in auditing and mapping their energy processes, will assess the impact of energy processes on both a technical and non-technical level and help to reduce the cost of energy audits. This will be validated by 11 demonstration sites that will test the software in real operating conditions in industrial facilities.

**EMB<sub>3</sub>RS** (User-driven Energy-Matching & Business Prospection Tool for Industrial Excess Heat / Cold Reduction, Recovery and Redistribution) is investigating the potential of recycling industrial excess heat and cold and designing a platform that explores how energy – normally wasted by releasing it into the environment – could be reused as a valuable source for other industrial processes, district heating and cooling or further purposes.

**INCUBIS** (An Energy Symbiosis Incubator for Maximizing Energy Efficiency in Industrial Parks and Districts) will develop a set of tools and support services to help key stakeholders in Industrial Parks and Districts in the development and implementation of Energy Symbiosis projects. Energy



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Since the project's beginning, consortium partners have contributed to the dissemination of the project by publishing news on their own corporate websites and sharing them with local media. There has been a total of 29 articles published, as shown in Annex I.

### 1.3.2 Events organised

During the first 18 months of the SO WHAT project, there was one co-creation workshop organised in Antwerp, Belgium. During this design thinking session, the consortium members and external guests joined in a dynamic exercise to define the requirements for the tool that SO WHAT is developing. They had to put themselves in the shoes of the potential end users of the SO WHAT tool: ESCOS, industries and municipalities, and determine which features would be essential, important and interesting to have.

*Image 19: Workshop in Antwerp*



SIE, as the partner responsible for the communication and dissemination of SO WHAT, contributed to the awareness strategy by designing the specific visual campaign, by uploading the event to [eventbrite](#), by posting the information on [social media](#) and by uploading the [news](#) once the events were finalised.

Image 20: Workshop Save the Date



### 1.3.3 Events attended

The SO WHAT consortium partners were encouraged to participate actively in the communication and dissemination actions and, as part of that, the attendance to events, conferences and shows is one of the main activities of the strategy.

Due to COVID19 mobility restrictions, physical meetings were not allowed since March 2020 (M10) and haven't resumed yet.

Several partners attended the District Heating Workshop in Antwerp, organized by one of the project partners, the Province of Antwerp, together with ISVAG, DBDH, EnergyVille, ODE Vlaanderen and Interafval (VVSG) on December 11<sup>th</sup>. Over 200 people attended this event, where our Technical Project Coordinator Nick Purshouse presented the SO WHAT Project.

Image 21: Nick Purshouse presenting SO WHAT at the District Heating Workshop in Antwerp





The project coordinator RINA planned to attend the EU Sustainable Energy Week with a booth where they expected to present the SO WHAT project. Due to COVID-19 this conference was turned into an online format that didn't suit the original purposes of RINA's participation, which was withdrawn.

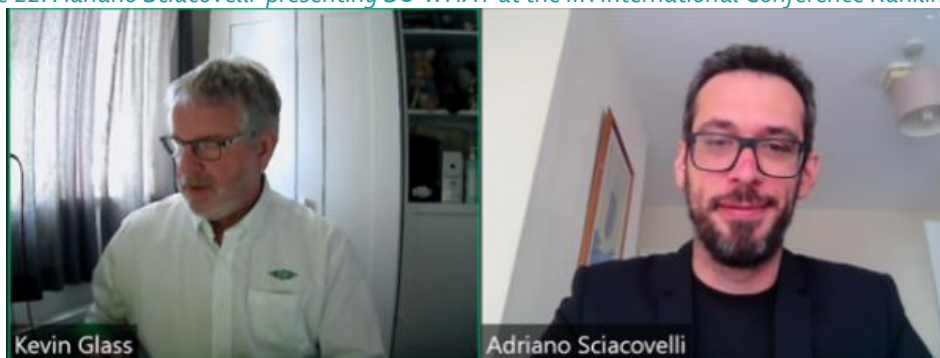
In addition, our SO WHAT consortium partner the University of Birmingham participated in the online Rankine Conference 2020 with the presentation of two papers that included some of the findings and work of the SO WHAT Project:

1. Organic Rankine cycles combined with thermochemical heat transformers to enhance the power output from waste heat.
2. Latent heat and thermochemical storage as enablers for waste heat-to-power and heat-upgrade: a general approach.

The first presentation took place on July 28, and it was carried out by Giovanni Manente, while the second one happened on July 30 and it was presented by Adriano Sciacovelli. Both talks mentioned the preliminary findings of the SO WHAT Project and the expected impacts of the work ahead.

The IIR International Conference Rankine 2020 – Applications of Cooling, Heating and Power Generation, was an interactive online event held over 5 days. Over 2,000 participants explored research and developments in the closely related fields of power cycles, working fluids and refrigeration, air conditioning and heat pump (RACHP) applications. They took away insights into new opportunities to deliver efficient, sustainable and environmentally friendly solutions.

*Image 22: Adriano Sciacovelli presenting SO WHAT at the IIR International Conference Rankine 2020*



The SO WHAT Project also presented paper, led by the University of Birmingham, at the [Sustainable Places](#) online conference, on October 29, in the context of the session "Energy Storage".

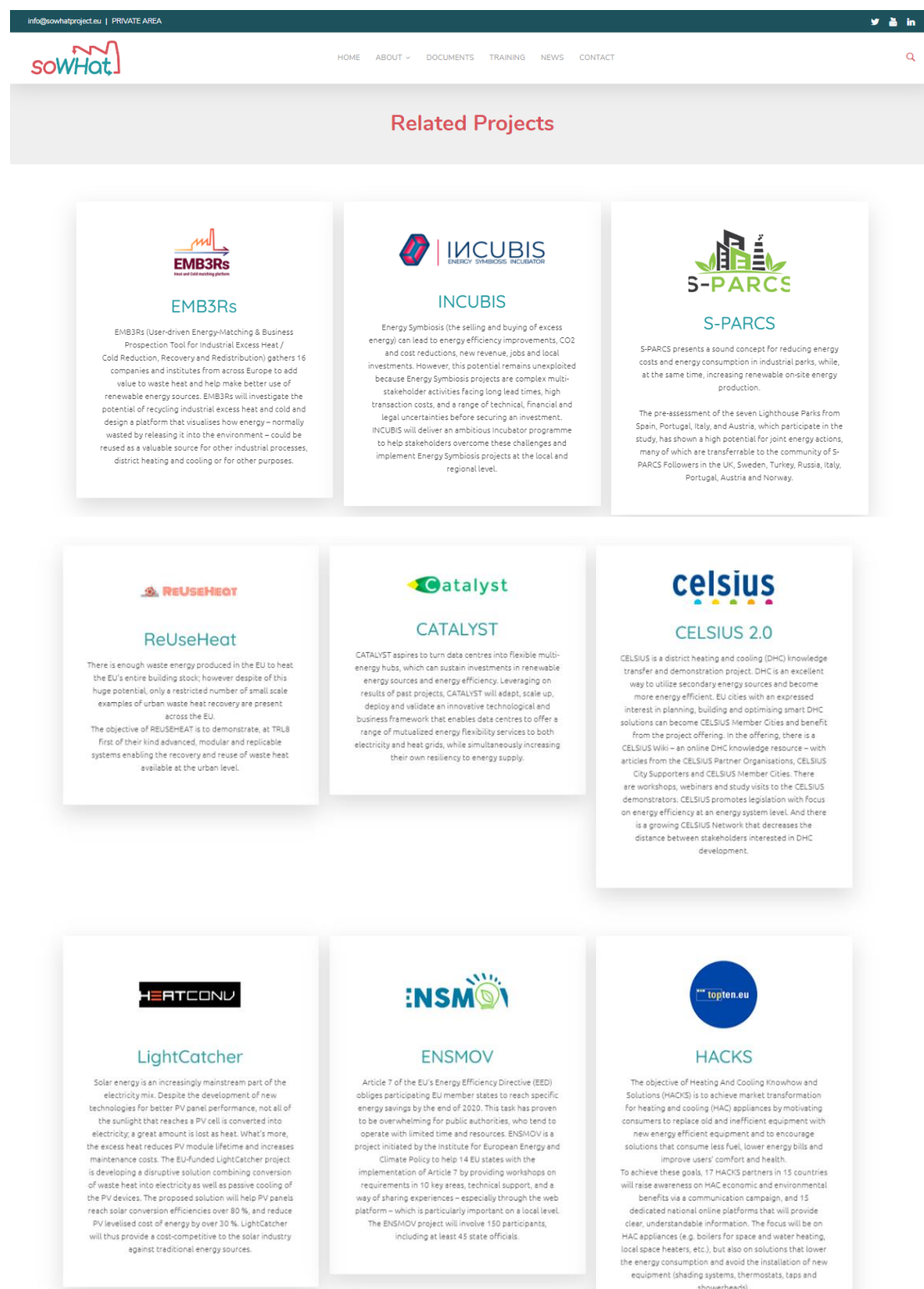
*Image 23: Adriano Sciacovelli presenting at Sustainable Places*



### 1.3.4 Interaction with other EU projects

There has been interaction established with four projects at this stage: [EMB3Rs](#), [INCUBIS](#), [R-ACES](#) and [S-PARCS](#). First of all, SO WHAT carried out some literature review to identify related and similar projects and it created a section [on the website](#) referencing them.

Image 24: Related Projects section on the website



### REPLACE


Heating and cooling consume half of the EU's energy and much of it is wasted. For instance, almost half of Europe's buildings have individual boilers installed before 1992, with an efficiency of 60 % or less. Encouraging consumers to replace old heating and cooling units with more efficient, greener alternatives is top priority for a decarbonised Energy Union. The EU-funded REPLACE project aims to boost efforts with replacement campaigns in 10 target regions. It will also unite policymakers and intermediaries such as chimney sweepers and installers who are in direct contact with consumers, to develop common activities with maximum impact. The project aims to raise awareness of the benefits of heating and cooling replacements by highlighting success stories.

### ODYSSEE-MURE

The 2012 Energy Efficiency Directive (EED) establishes a set of binding measures to help the EU reach its 20% energy efficiency target by 2020. ODYSSEE MURE 2015 aims to contribute to assess, monitor and evaluate energy efficiency progress and the state of implementation of measures and their impact to check that the EU is on track with its 2020 target. The project will provide innovative training tools and documents in a very user friendly way to public administrations to help them in implementing the monitoring of the progress achieved with indicators, in designing new policy measures and assessing the impacts of these measures, not only in terms of energy savings, but also in terms of the other benefits linked to energy efficiency improvements. Finally, the project will try to provide an assessment of the multiple benefits of energy efficiency policies for all MS combining existing evaluation and new calculations.


### R-ACES

The European project R-ACES aims to create 'Eco-regions' where heat and cold are exchanged, smart energy management systems are incorporated, and renewables are used. The vision of R-ACES is to support high-potential industrial parks and clusters in becoming such Eco-regions able to reduce greenhouse gas emissions by at least 10%. This goal can be reached by exchanging surplus energy, making extensive use of renewables, and bringing everything together with so-called smart energy management systems.



Horizon 2020  
European Union funding  
for Research & Innovation

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 847097






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#### CONTACT

Info@sowhatproject.eu  
Phone: + 39 010 31961

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SUBMIT

RINA-C and SIE, as Project Coordinator and Communications Manager respectively, have contacted some of these related projects.

A call was held with the [INCUBIS](#) project on September 22. Several levels of potential collaboration were foreseen and are currently being discussed:

- Technical collaboration on the tools to identify synergies and superpositions. The coordinators have touched base and are working on arranging a teleconference with the technical partners.
- Potentially using the SO WHAT tool in the INCUBIS case studies based on their availability.
- The organisation of a joint webinar.

Likewise, another call was held with the [EMB<sub>3</sub>RS](#) project, where different potential lines of collaboration were drawn:

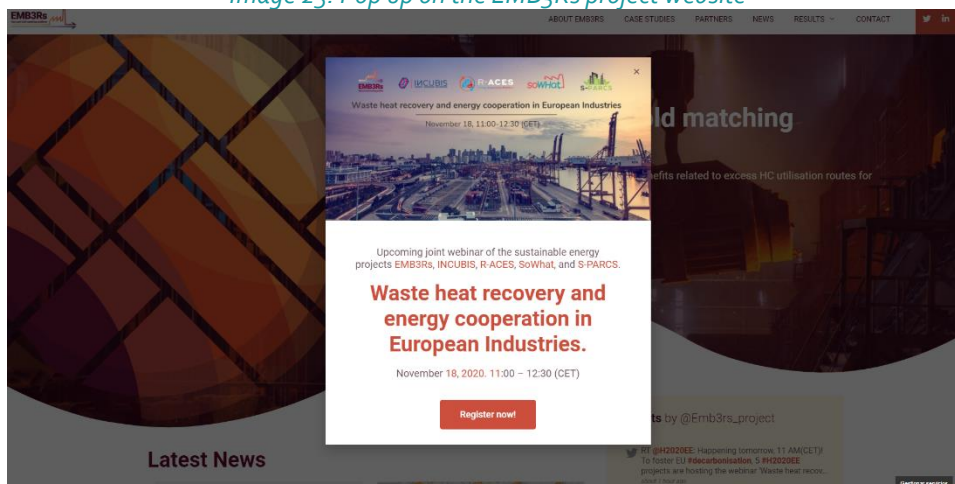
- A discussion between developers on the specifications of each project's tool
- A workshop (potentially in the beginning of 2021) to present the characteristics of both tools and gather feedback.
- The organisation of a joint webinar.

With these two projects onboard and [S-PARCS](#) having confirmed via email, SO WHAT took the lead and organised a joint webinar on waste heat technologies took place on November 18. On November

5<sup>th</sup>, SO WHAT held a teleconference with the [R-ACES](#) project to discuss potential synergies. They decided to join the webinar too.


All the projects' communication leaders coordinated to do a joint campaign to communicate and disseminate the webinar.

Image 25: Pop up on the EMB3Rs project website



The webinar, which set the precedent for further collaborations with these and other projects, counted with over 100 attendees and 10 speakers. The full agenda can be seen in Annex II.

Image 26: Registration landing page for the webinar



## Waste heat recovery and energy cooperation in European Industries

Wed, Nov 18, 2020 11:00 AM - 12:30 PM CET  
[Show in My Time Zone](#)

Heating and cooling are the largest sources of energy demand in Europe and, at the moment, they are mainly covered by fossil fuels, while low carbon energy sources like waste heat and cold recovery and renewable energy sources remain marginal. Nevertheless, current studies showed that, in the European Union (EU), the amount of heat wasted by industries in the form of hot water or flue gases would be sufficient to cover the entire EU's heating needs. This would foster the EU's decarbonisation while reducing its dependence on fossil fuels.

To achieve this, several projects are developing technologies and software tools to facilitate waste heat and cold recovery, as well as the integration of cooling and heating demand with renewable energy sources.

The aim of the webinar is to explore different solutions to enhance a smart and sustainable energy use in industrial contexts, as well as WH/C recovery and reutilization, to find synergies between the work the different projects are carrying out, and to raise awareness among stakeholders on the new tools under development.

Likewise, the webinar will include time for discussion and questions from the audience. Participants will leave with a deeper understanding of how to optimize energy use and recovery in industrial environments.

- 11:00 – 11:05 Introduction to the webinar and projects
- 11:05 – 11:20 Waste heat, an introduction on its relevance
- 11:20 – 11:40 Thematic area 1 Cooperation and industrial parks (S-PARCS, INCUBIS and R-ACES)
- 11:40 – 12:10 Thematic area 2 Tools to empower WH recovery: the perspective of relevant EU research projects (SO WHAT, EMB3Rs and S-PARCS)
- 12:10 – 12:15 Conclusions
- 12:15 – 12:30 Questions & Answers

\*Required field

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Organization\*

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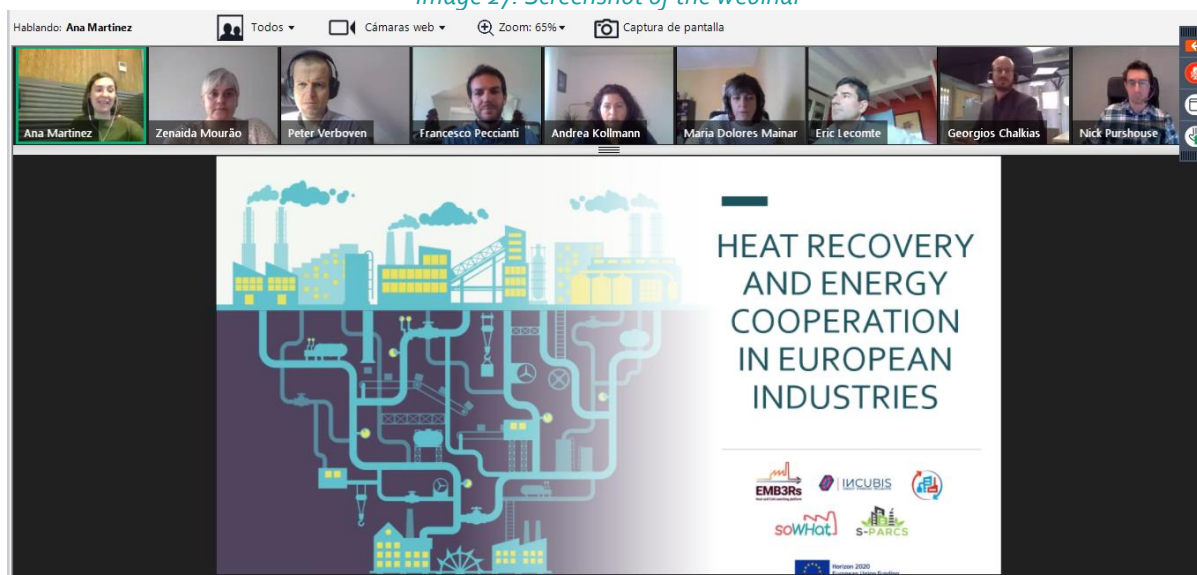
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Image 27: Screenshot of the webinar



### 1.3.5 Interactions with European associations

UoB presented the project to Innovate UK and gave some high-level info about its aims. Innovate UK is part of the UK Business Energy Department which is currently running a Heat Recovery funding support scheme. In addition, several European associations were identified in the stakeholders list that was elaborated at the beginning of the project included in Annex III. They will be contacted once the presentation of the SO WHAT tool is ready to introduce it to them.

### 1.3.6 Scientific journals

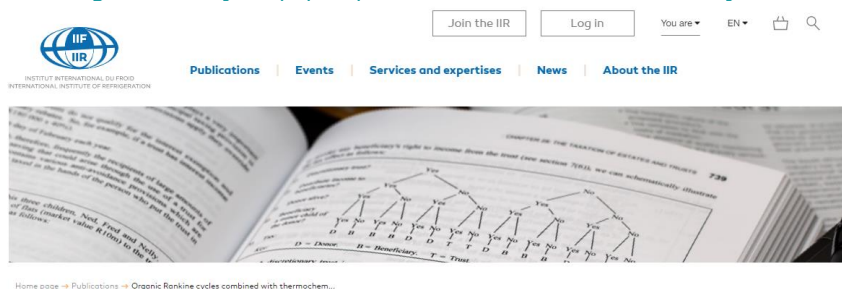
Two papers with information on the SO WHAT Project developments have been presented by the University of Birmingham in the online Rankine Conference 2020 that took place in late July:

- Organic Rankine cycles combined with thermochemical heat transformers to enhance the power output from waste heat.
- Latent heat and thermochemical storage as enablers for waste heat-to-power and heat-upgrade: a general approach.

The first presentation took place on July 28, and it was carried out by Giovanni Manente, while the second one happened on July 30 and it was presented by Adriano Sciacovelli. Both talks mentioned the preliminary findings of the SO WHAT Project and the expected impacts of the work ahead.

In addition, another paper was presented by the University of Birmingham too, at the online conference Sustainable Places celebrated on 29 October 2020.

Image 28: One of the papers presented at the Rankine 2020 Conference



RECOMMENDED BY THE IIR / IIR DOCUMENT

## Organic Rankine cycles combined with thermochemical heat transformers to enhance the power output from waste heat.

Number: 1175

Author(s): [MANENTE G.](#), [DING Y.](#), [SCIACOVELLI A.](#)

### Summary

The conversion of waste heat into electricity in organic Rankine cycles (ORCs) is often limited by the incomplete utilization of the heat source due to the lack of adequate heat sinks below the pinch point. In this context, low temperature thermochemical sinks could provide new opportunities of heat integration, which have been largely overlooked until now. This study investigates the coupling of organic Rankine cycles with chemical heat pumps (i.e. thermochemical heat transformers). By taking advantage of the pressure dependence of the chemical equilibrium, a low grade heat source drives an endothermic reaction, leading the production of higher temperature heat source (heat upgrade) through an exothermic reaction. The upgraded heat can then be converted to power. Different chemical compounds and integration schemes have been investigated to optimise the ORC performance. The proposed integrated system improves by 7.5% the power output of an optimized ORC.

Image 29: Presentation at Sustainable Places



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## "Energy Storage" Paper Session

Day 3 | Thursday 27th October | 9.00 - 10.00

- "STORY: The role of storage systems in industrial and residential environments" Andreas Tuerk, Joanneum Research (PDF)
- "SO WHAT: Kinetic modelling of thermochemical energy storage reactions for storage of solar heat" Adriano Sciacovelli, University of Birmingham

Chair of the session: [Zia Lennard](#), R2M

### Video Recording:



## 2 INDICATORS & TARGETS

The successful implementation of this component of the Dissemination and Communication Plan will be quantified by the achievement of specific targets for a number of different indicators (Table 2).

Table 2: KPI, means and objectives

Means / channel	KPI	Current (by M18)
Scientific/technical publications	3 = poor, 3-5 = good, >5 = excellent;	3 conference papers accepted
Oral/poster presentations at conferences, symposia, seminars, workshops, etc.	Number of conference presentations: <3 = poor, 3-7 = good, >7+ = excellent	3 conference presentations
Liaison/collaboration with relevant European communities	Collaboration agreements with relevant associations <3 = poor, 4-6 = good, >7 = excellent	
Liaison / collaboration with relevant projects	<4 = poor, 5-8 = good, >9 = excellent	Active collaboration with EMB3Rs, INCUBIS, R-ACES and S-PARCS
Project visual identity and public image	Reach at the project end: 1500 followers on Twitter; 300 on LinkedIn	103 followers on Twitter 397 followers on LinkedIn
Project website	1500 unique visitors per year;  An average of 2.5 min stay  Total visits: <5000 = poor; 5000-10,000 = good; >10,000 = excellent  Material downloads: <50 = poor; 50-100 = good; >100 = excellent	1,705 new users  2:55 minutes 01 seconds.  Total visits: 7,668  652 visits to the documents download site
Project promotional materials (brochure/ leaflet, flyers, poster and banners...	200 downloads per year from the website  <500 copies = poor; 500-1,000 copies = good; >1,000 copies = excellent	652 visits to the documents download site  200 printed copies
Project videos	800 views in total	512views

Project media presentations	3 large regional/national media presentations	4 media presentations (Sweden, Romania and Portugal, webinar) 29 publications
Periodic e-newsletter	>1,000 recipients in the e-newsletter distribution list by end of project.	323 subscribers 2,137 people on Twitter in average 1,059 on LinkedIn

### 3 DISSEMINATION

As stated on the Grant Agreement Article 29 “Unless it goes against their legitimate interests, each beneficiary must — as soon as possible — ‘disseminate’ its results by disclosing them to the public by appropriate means (other than those resulting from protecting or exploiting the results), including in scientific publications (in any medium).”

In compliance with this article, our partners have actively contributed in disseminating the SO WHAT project from the very beginning by different means: social media posts, attendance to conferences, emailing campaigns, newsletters, press releases, etc.

SO WHAT LinkedIn posts have been shared 145 times and our partners were very supportive in this area. Likewise, our partners have made 45 tweets mentioning SO WHAT, and contributed to retweeting 207 times to the content shared in the official social media channels.

As further explained in section 1.3.3, the project partners have disseminated SO WHAT at three different events so far: District Heating Workshop in Antwerp, Rankine Conference 2020, and Sustainable Places. Moreover, a webinar with related projects was held on November 18.

One press release was launched through the official project channels and some partners also shared news about the project with the media.

All this information can be found in more detail in the dissemination tables included in Annex III.

## 4 COVID-19 IMPACT AND MITIGATION STRATEGY

COVID-19 has had a clear impact on the communication and dissemination activities of the project. Several physical events and conferences were cancelled, the work at some industrial sites slowed down or even stopped, and many laboratories closed during the worst period of the pandemic. This has significantly reduced the reach of the project at this first development stage. Moreover, it left the SO WHAT Communication Manager with very little news to communicate. Nevertheless, work continued in the best possible way and communication didn't stop at any point. We leveraged atemporal content and news items, such as the series we are posting about the project demo sites. Moreover, this can be seen as an opportunity to further engage stakeholders virtually. Whilst attending to a physical workshop or event is expensive and time-consuming, transforming some of these events into a digital format provides the opportunity for more attendees to join, and thus to reach a wider amount of public.

The entire SO WHAT consortium is committed to join online conferences whenever possible, and to explore new possibilities and formats for digital events and to boost engagement and interaction, such as Mural, Miró, Mentimeter, and other software tools.

## 5 CONCLUSIONS AND ACTION PLAN M<sub>18</sub> – M<sub>36</sub>

After a careful review of the actions implemented during the first period in the SO WHAT communication and dissemination strategy and the examination of the compliance with the KPIs established at the beginning of the project, in general terms the strategy is proving to be effective. No major deviations have been found, so the main action guidelines will remain the same and we continue to liaise with the coordination on the adopted approach and risk management.

There are some indicators that shed light on where the communication efforts could be enhanced, such as in establishing collaboration agreements with relevant associations. Moreover, further synergies with related projects may be prompted.

The KPI on Twitter followers could only be achieved if a paid campaign was launched. This will be discussed with the partners. Nevertheless, the KPI of followers in LinkedIn were already overcome, showing the great interest of this social media users in this project. The website is performing very well and attracting not only a high number of visitors, but also very qualified ones, as the high stay rate shows.

Although google analytics is not providing the number of document downloads, 652 people visited that section of the website, proving that the content shared there (reports, deliverables, newsletters and communication materials) is of great interest for the web visitors.

SIE, as leaders of the communication and dissemination activities, has registered in Build Up, the energy efficiency portal, where it submitted the news about the webinar and will continue uploading relevant news and events.

At least two new press releases are foreseen in the next period. SIE, in collaboration with the SO WHAT partners will identify the most interesting milestones suitable to be communicated to media.

The activity in social media will continue. Participation of the partners to maintain the good performance in these platforms is a vital part of our approach to Dissemination and Communications. SIE is also committed to reinforce the SO WHAT Newsletter campaigns, to attract as many stakeholders as possible to join the mailing list.

In addition, a key activity will be to continue reinforcing the relationships with other EU projects and initiatives working on a similar theme to SO WHAT in order to leverage each project's contacts and organise coordinated activities which will boost the KPIs relating to audience size for all the projects. Moreover, in this second phase of the project we will approach more actively industrial sites to introduce the tool and better understand the key exploitable results and outcomes of the project.

Due to the COVID-19 crisis, all consortium partners are working on impact mitigation strategies regarding the project activities and outcomes. As already mentioned above, in terms of communication and dissemination, this situation is likely to result in a reduction in the number of conferences and events attended. In this case, the consortium partners are committed to continue the contact with stakeholders by email, telephone or online meetings and social media posts and we may hold webinars in the interim to help us to progress our work and engagement with targeted community. Moreover, whenever possible and appropriate, consortium partners will join online conferences and disseminate the SO WHAT Project there.



# 6 ANNEX I: ONLINE PUBLICATIONS AND MEDIA IMPACT

## Cordis News

<https://cordis.europa.eu/article/id/423123-emb3rs-incubis-r-aces-so-what-and-s-parcs-to-host-webinar-on-industrial-waste-heat-recovery>

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News

**EMB3RS, INCUBIS, R-ACES, SO WHAT AND S-PARCS TO HOST WEBINAR ON INDUSTRIAL WASTE HEAT RECOVERY**

The smart and sustainable energy projects EMB3RS, INCUBIS, R-ACES, SO WHAT and S-PARCS are organizing a joint webinar: Waste heat recovery and energy cooperation in European Industries, to be held on November 18, 2020. These five sister initiatives, funded under the EU Horizon 2020 research and innovation programme, will present their work on industrial WHC recovery, the tools they are developing to empower it, and potential synergies between industrial parks and the surrounding community.

**Contributor**

Contributed by:  
European Science Communication Institute  
Germany

Contact:  
Kristine Jung (Dr)  
Email  
See more articles from this contributor

**Related projects**

**HORIZON 2020**

PROJECT

S-PARCS

Envisioning and Testing New Models of Sustainable Energy Cooperation and Services in Industrial Parks

18 July 2020

**HORIZON 2020**

PROJECT

SO WHAT

Supporting new Opportunities for Waste Heat And cold valorisation Towards EU decarbonization

11 May 2020

**HORIZON 2020**

PROJECT

INCUBIS

An Industrial Symbiosis Incubator for Maximizing Waste Heat/Cold Efficiency in Industrial Parks and Districts

20 April 2020

**HORIZON 2020**

PROJECT

R-ACES

Supporting industrial clusters & business parks in becoming ecoregions that reduce their CO2 emissions by at least 10%. To achieve this, ecoregions are created where multiple stakeholders engage in energy cooperation by exchanging heat/cold streams, investing together in renewable energy solutions, or managing energy streams through smart energy management platforms.

**Keywords**

energy cooperation, energy transition, waste heat, industrial symbiosis, ecoregion



© Source: So What Project

The aim of the webinar Waste heat recovery and energy cooperation in European Industries is to explore different solutions to enhance a smart and sustainable energy use in industrial and regional contexts, as well as WHC recovery and reutilization, to find synergies between the work the different projects are carrying out, and to raise awareness among stakeholders on the new tools under development. Likewise, the webinar will include time for discussion and questions. Participants will leave with a deeper understanding of how to optimize energy use and recovery in industrial environments.

Heating and cooling are the largest sources of energy demand in Europe and currently they are mainly covered by fossil fuels, while low carbon energy sources like waste heat and cold recovery and renewable energy sources remain marginal. Nevertheless, current studies showed that, in the EU, the amount of heat wasted by industries in the form of hot water or flue gases would be sufficient to cover the entire EU's heating needs. This would foster the EU's decarbonisation while reducing its dependence on fossil fuels.

To achieve this, these projects are developing technologies and software tools to facilitate waste heat and cold recovery, as well as the integration of cooling and heating demand with renewable energy sources.

EMB3RS is investigating the potential of recycling industrial excess heat and cold and designing a platform that explores how energy – normally wasted by releasing it into the environment – could be reused as a valuable source for other industrial processes, district heating and cooling or further purposes.

INCUBIS will develop a set of tools and support services to help key stakeholders in Industrial Parks and Districts in the development and implementation of Energy Symbiosis (ES) projects. ES involves the use of the excess heat/cold produced by one or more industries, to provide heating, cooling or electricity for other industries or buildings. The concept can also be extended to the production of sustainable energy by using waste materials (e.g. biomass) as fuel. ES projects are complex multi-stakeholder activities facing long lead times, high transaction costs, a range of technical, financial, and legal uncertainties before securing an investment. Nonetheless, they can lead to energy efficiency improvements, CO2 & cost reductions, new revenue, jobs, and local investments.

R-ACES is supporting industrial clusters & business parks in becoming ecoregions that reduce their CO2 emissions by at least 10%. To achieve this, ecoregions are created where multiple stakeholders engage in energy cooperation by exchanging heat/cold streams, investing together in renewable energy solutions, or managing energy streams through smart energy management platforms.

SO WHAT is developing an integrated software to identify and simulate how industrial WHC could cost effectively balance with the local community's forecasted energy demand, and how this could be integrated with renewable energy systems. The tool, designed to support different stakeholders in auditing and mapping their energy processes, will assess the impact of energy processes on both a technical and non-technical level and help to reduce the cost of energy audits. This will be validated by 11 demonstration sites that will test the software in real operating conditions in industrial facilities.

S-PARCS presents a sound concept for reducing energy costs and energy consumption in industrial parks, while, at the same time, increasing renewable on-site energy production. It aims at moving from a single-company energy efficient intervention approach to cooperative energy efficient solutions, enabling higher energy savings and the subsequent increase of competitiveness of the companies located in the parks. S-PARCS will systematically analyse technical, economic, regulatory, legal, organisational, environmental & social barriers to energy-efficient park design & operation.



## Alphagalileo

[https://www.alphagalileo.org/en-gb/Item-](https://www.alphagalileo.org/en-gb/Item-Display/ItemId/200644?returnurl=https://www.alphagalileo.org/en-gb/Item-Display/ItemId/200644)

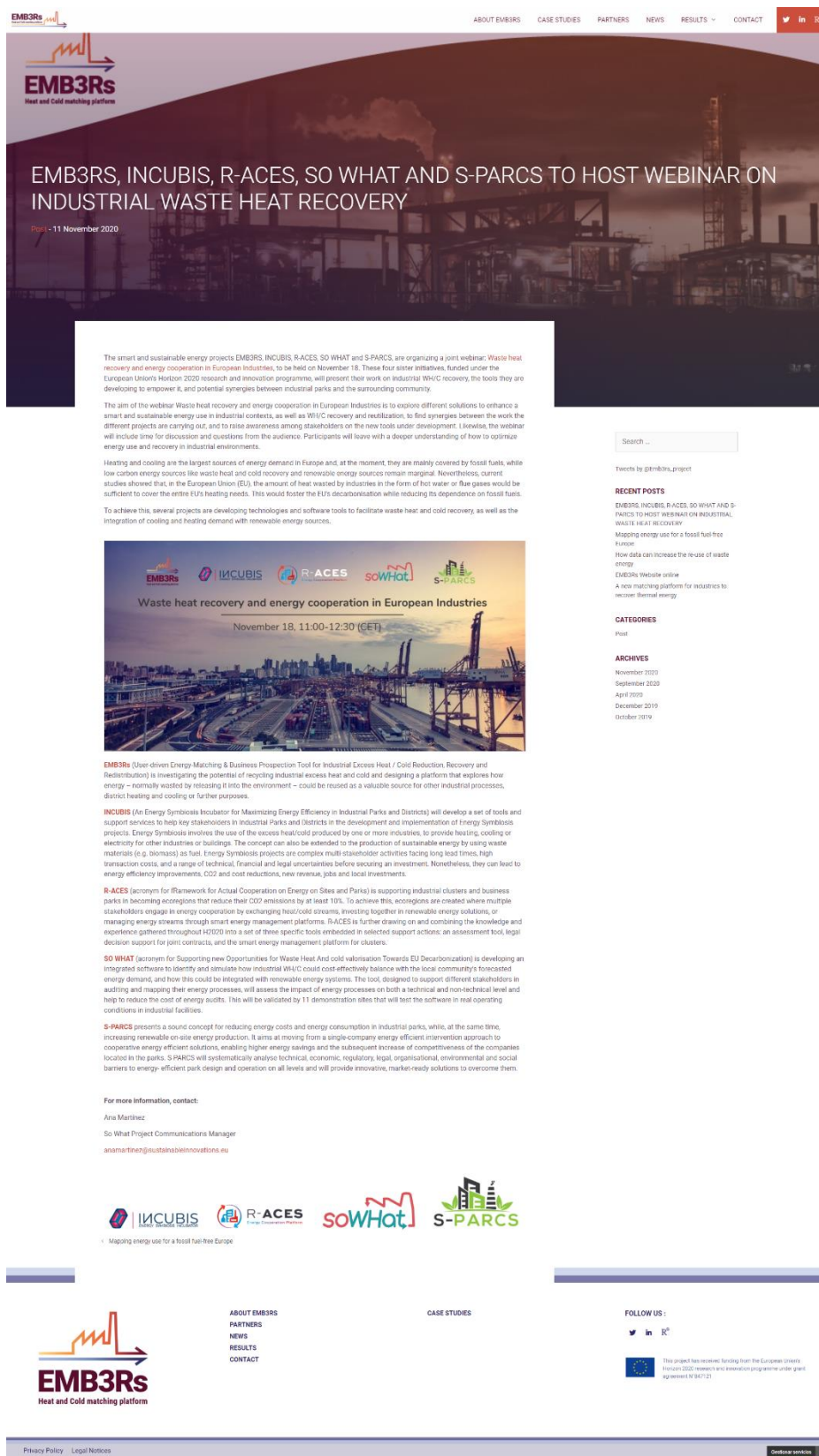
[Display/ItemId/200644?returnurl=https://www.alphagalileo.org/en-gb/Item-Display/ItemId/200644](https://www.alphagalileo.org/en-gb/Item-Display/ItemId/200644?returnurl=https://www.alphagalileo.org/en-gb/Item-Display/ItemId/200644)



The screenshot shows the AlphaGalileo website interface. At the top, there's a navigation bar with 'All regions' (Africa, Asia, Caribbean, Europe, Latin America, Middle East, North America, Oceania, Extraterrestrial) and 'All categories' (Covid-19, Science, Health, Society, Humanities, Arts, Applied science, Business). A login/register section is on the right. The main content area features an article titled 'EMB3RS, INCUBIS, R-ACES, SO WHAT AND S-PARCS To Host Webinar On Industrial Waste Heat Recovery' dated 18/11/2020. The article text describes a joint webinar on November 18, 2020, focusing on waste heat recovery and energy cooperation in European industries. It mentions that the webinar will explore different solutions to enhance smart and sustainable energy use, find synergies between projects, and raise awareness among stakeholders. The article also lists logos of participating organizations: IOS Press, INSTITUTO GULBENKIAN DE CIÊNCIA, youris.com, AIP (American Institute of Physics), cost, ESCI (European Science Communication Institute), FMCH, cnrs, and a tree logo. On the right sidebar, there's a 'Categories' section (Applied science, Business, Science, Society), 'Keywords' (Engineering, Renewable energy, Energy, Economics/Management), and 'Regions' (Europe). Below this, there are links to 'WFSJ Briefing', 'COVID-19', 'Script Media training for African researchers', 'expertsvr', 'Forskningsrådet', and 'FN-SNF SWISS NATIONAL SCIENCE FOUNDATION'.

## EMB3Rs website

<https://www.emb3rs.eu/emb3rs-incubis-r-aces-so-what-and-s-parcs-to-host-webinar-on-industrial-waste-heat-recovery/>



The screenshot shows the EMB3Rs website with a header navigation bar (ABOUT EMB3RS, CASE STUDIES, PARTNERS, NEWS, RESULTS, CONTACT) and social media links. The main content area features a large image of an industrial facility with the title "EMB3RS, INCUBIS, R-ACES, SO WHAT AND S-PARCS TO HOST WEBINAR ON INDUSTRIAL WASTE HEAT RECOVERY" and the date "Paris - 11 November 2020". Below the title, there is a detailed description of the webinar, its objectives, and the participating organizations. A sidebar on the right contains a search bar, recent posts, categories, and archives. The footer includes logos for EMB3RS, INCUBIS, R-ACES, soWWhat, and S-PARCS, along with contact information and a privacy policy link.

**EMB3RS** (User-driven Energy Matching & Business Prospection Tool for Industrial Excess Heat / Cold Reduction, Recovery and Redistribution) is investigating the potential of recycling industrial excess heat and cold and designing a platform that explores how energy – normally wasted by releasing it into the environment – could be reused as a valuable source for other industrial processes, district heating and cooling or further purposes.

**INCUBIS** (An Energy Symbiosis Incubator for Maximizing Energy Efficiency in Industrial Parks and Districts) will develop a set of tools and support services to help key stakeholders in Industrial Parks and Districts in the development and implementation of Energy Symbiosis projects. Energy Symbiosis involves the use of the excess heat/cold produced by one or more industries, to provide heating, cooling or electricity for other industries or buildings. The concept can also be extended to the production of sustainable energy by using waste materials (e.g. biomass) as fuel. Energy Symbiosis projects are complex multi-stakeholder activities facing long lead times, high transaction costs, and a range of technical, financial and legal uncertainties before securing an investment. Nonetheless, they can lead to energy efficiency improvements, CO<sub>2</sub> and cost reductions, new revenue, jobs and local investments.

**R-ACES** (acronym for RAnetwork for Actual Cooperation on Energy on Sites and Parks) is supporting industrial clusters and business parks in becoming ecocorps that reduce their CO<sub>2</sub> emissions by at least 10%. To achieve this, ecocorps are created where multiple stakeholders engage in energy cooperation by exchanging heat/cold streams, investing together in renewable energy solutions, or managing energy streams through smart energy management platforms. R-ACES is further drawing on and combining the knowledge and experience gathered throughout H2020 into a set of three specific tools embedded in selected support actions: an assessment tool, legal decision support for joint contracts, and the smart energy management platform for clusters.

**SO WHAT** (acronym for Supporting new Opportunities for Waste Heat And cold valorisation Towards EU Decarbonization) is developing an integrated software to identify and simulate how industrial WH/C could cost-effectively balance with the local community's forecasted energy demand, and how this could be integrated with renewable energy systems. The tool, designed to support different stakeholders in auditing and mapping their energy processes, will assess the impact of energy processes on both a technical and non-technical level and help to reduce the cost of energy audits. This will be validated by 11 demonstration sites that will test the software in real operating conditions in industrial facilities.

**S-PARCS** presents a sound concept for reducing energy costs and energy consumption in industrial parks, while, at the same time, increasing renewable on-site energy production. It aims at moving from a single-company energy efficient intervention approach to cooperative energy efficient solutions, enabling higher energy savings and the subsequent increase of competitiveness of the companies located in the parks. S-PARCS will systematically analyze technical, economic, regulatory, legal, organisational, environmental and social barriers to energy-efficient park design and operation on all levels and will provide innovative, market-ready solutions to overcome them.

**For more information, contact:**  
Ana Martinez  
So What Project Communications Manager  
anamartinez@sustainableinnovations.eu

**Logos:** EMB3RS, INCUBIS, R-ACES, soWWhat, S-PARCS

**Footer:** ABOUT EMB3RS, PARTNERS, NEWS, RESULTS, CONTACT, CASE STUDIES, FOLLOW US (Twitter, LinkedIn, Facebook), Privacy Policy, Legal Notices, 6



## R-ACES website

<https://r-aces.eu/2020/11/10/effective-energy-exchange-in-industrial-clusters-across-europe-duplicate-1-2/>



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# EMB3RS, INCUBIS, R-ACES, SO WHAT and S-PARCS to host webinar on industrial waste heat recovery

News | 10 November 2020



Waste heat recovery and energy cooperation in European Industries

November 18, 11:00-12:30 (CET)

The smart and sustainable energy projects EMB3RS, INCUBIS, R-ACES, SO WHAT and S-PARCS, are organizing a joint webinar: Waste heat recovery and energy cooperation in European Industries, to be held on November 18, 2020. These five sister initiatives, funded under the European Union's Horizon 2020 research and innovation programme, will present their work on industrial WH/C recovery, the tools they are developing to empower it, and potential synergies between industrial parks and the surrounding community.

The aim of the webinar 'Waste heat recovery and energy cooperation in European Industries' is to explore different solutions to enhance a smart and sustainable energy use in industrial and regional contexts, as well as WH/C recovery and reutilization, to find synergies between the work the different projects are carrying out, and to raise awareness among stakeholders on the new tools under development. Likewise, the webinar will include time for discussion and questions from the audience. Participants will leave with a deeper understanding of how to optimize energy use and recovery in industrial environments.

Heating and cooling are the largest sources of energy demand in Europe and, at the moment, they are mostly covered by fossil fuels, while low carbon energy sources like waste heat and cold recovery and renewable energy sources remain marginal. Nevertheless, current studies showed that, in the European Union (EU), the amount of heat wasted by industries in the form of hot water or flue gases would be sufficient to cover the entire EU's heating needs. This would foster the EU's decarbonisation while reducing its dependence on fossil fuels.

To achieve this, these projects are developing technologies and software tools to facilitate waste heat and cold recovery, as well as the integration of cooling and heating demand with renewable energy sources.

### Projects

**EMB3RS** (User-driven Energy Matching & Business Prospection Tool for Industrial Excess Heat / Cold Reduction, Recovery and Redistribution) is investigating the potential of recycling industrial excess heat and cold and designing a platform that explores how energy – normally wasted by releasing it into the environment – could be reused as a valuable source for other industrial processes, district heating and cooling or further purposes.

**INCUBIS** (An Energy Symbiosis Incubator for Maximizing Energy Efficiency in Industrial Parks and Districts) will develop a set of tools and support services to help key stakeholders in Industrial Parks and Districts in the development and implementation of Energy Symbiosis projects. Energy Symbiosis involves the use of the excess heat/cold produced by one or more industries, to provide heating, cooling or electricity for other industries or buildings. The concept can also be extended to the production of sustainable energy by using waste materials (e.g. biomass) as fuel. Energy Symbiosis projects are complex multi-stakeholder activities facing long lead times, high transaction costs, and a range of technical, financial, and legal uncertainties before securing an investment. Nonetheless, they can lead to energy efficiency improvements, CO<sub>2</sub> and cost reductions, new revenue, jobs, and local investments.

**R-ACES** (acronym for Framework for Actual Cooperation on Energy on Sites and Parks) is supporting industrial clusters and business parks in becoming ecoregions that reduce their CO<sub>2</sub> emissions by at least 10%. To achieve this, ecoregions are created where multiple stakeholders engage in energy cooperation by exchanging heat/cold streams, investing together in renewable energy solutions, or managing energy streams through smart energy management platforms. R-ACES is further drawing on and combining the knowledge and experience gathered throughout H2020 into a set of three specific tools embedded in selected support actions: an assessment tool, legal decision support for joint contracts, and the smart energy management platform for clusters.

**SO WHAT** (acronym for Supporting new Opportunities for Waste Heat And cold valorisation Towards EU decarbonization) is developing an integrated software to identify and simulate how industrial WH/C could cost-effectively balance with the local community's forecasted energy demand, and how this could be integrated with renewable energy systems. The tool, designed to support different stakeholders in auditing and mapping their energy processes, will assess the impact of energy processes on both a technical and non-technical level and help to reduce the cost of energy audits. This will be validated by 11 demonstration sites that will test the software in real operating conditions in industrial facilities.

**S-PARCS** presents a sound concept for reducing energy costs and energy consumption in industrial parks, while, at the same time, increasing renewable on-site energy production. It aims at moving from a single-company energy efficient intervention approach to cooperative energy efficient solutions, enabling higher energy savings and the subsequent increase of competitiveness of the companies located in the parks. S-PARCS will systematically analyse technical, economic, regulatory, legal, organisational, environmental and social barriers to energy-efficient park design and operation on all levels and will provide innovative, market-ready solutions to overcome them.

### Agenda & Registration

The agenda to the webinar and free registration is available here:  
<https://bit.ly/2GLJWAR>

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18	WASTE HEAT RECOVERY AND ENERGY COOPERATION IN EUROPEAN INDUSTRIES SO WHAT ACES WEBINAR WITH RELATED PROJECTS
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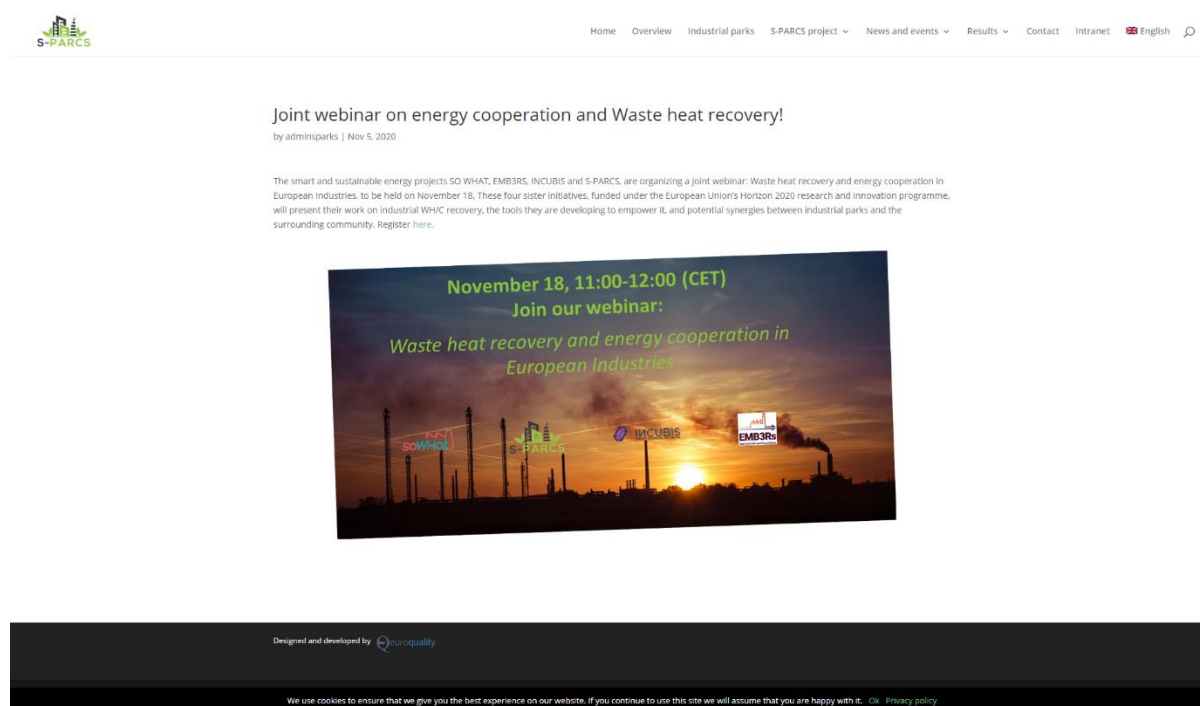
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 Effective Energy Exchange in Industrial Clusters across Europe

## S-PARCS website

<https://www.sparcs-h2020.eu/joint-webinar-on-energy-cooperation-and-waste-heat-recovery/>



## Institute for Sustainable Process Technology website

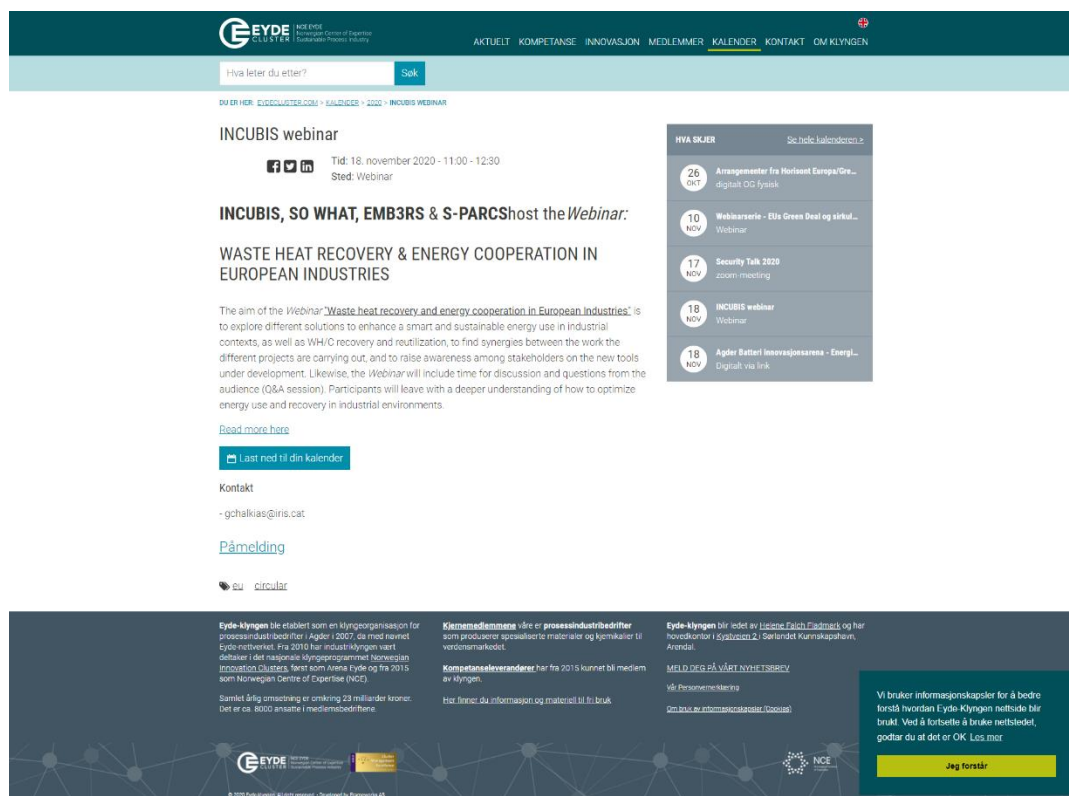
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## Eyde cluster

<https://www.eydecluster.com/no/kalender/2020/incubis-webinar/>



**INCUBIS webinar**

Tid: 18. november 2020 - 11:00 - 12:30  
Sted: Webinar

**INCUBIS, SO WHAT, EMB3RS & S-PARCS host the Webinar:**

**WASTE HEAT RECOVERY & ENERGY COOPERATION IN EUROPEAN INDUSTRIES**

The aim of the Webinar "Waste heat recovery and energy cooperation in European Industries" is to explore different solutions to enhance a smart and sustainable energy use in industrial contexts, as well as WH/C recovery and reutilization, to find synergies between the work the different projects are carrying out, and to raise awareness among stakeholders on the new tools under development. Likewise, the Webinar will include time for discussion and questions from the audience (Q&A session). Participants will leave with a deeper understanding of how to optimize energy use and recovery in industrial environments.

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**Eyde-klyngen** ble etablert som en klyngeorganisasjon for prosessindustribedrifter i Agder i 2007, da med navnet Eyde-nettverket. Fra 2010 har Eyde-klyngen vært del av det nasjonale klyngeprogrammet **Norwegian Innovation Clusters**, først som Arne Eyde og fra 2015 som Norwegian Centre of Expertise (NCE).

Samlet årlig omsættning er omkring 23 milliarder kroner. Det er ca. 6000 ansatte i medlemsbedriftene.

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**Kompetanseleverandører** har fra 2015 kunnet bli medlem av klyngen.

Hier. finner du informasjon og materialer til fr. bruk.

**Eyde-klyngen** blir ledet av **Lisette Falch Fjellmark** og har hovedkontor i **Svalbard 2**, Sørlandet Kunnskapshavn, Arendal.

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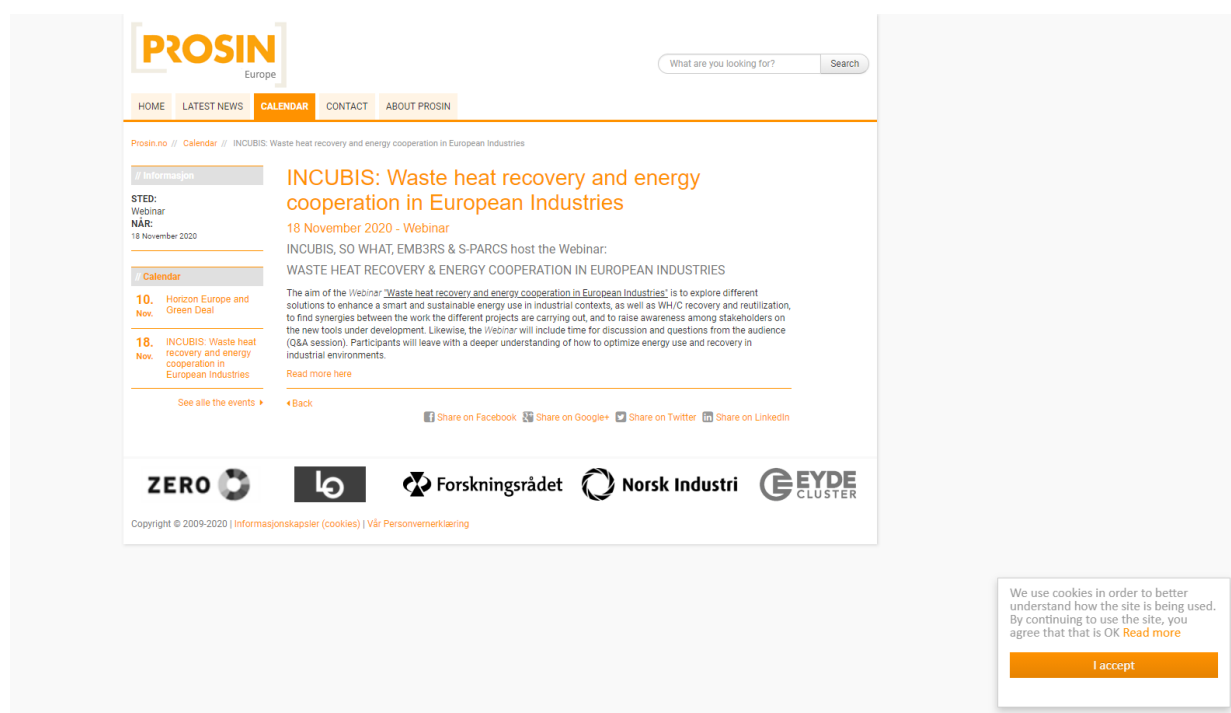
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**INCUBIS: Waste heat recovery and energy cooperation in European Industries**

18 November 2020 - Webinar

INCUBIS, SO WHAT, EMB3RS & S-PARCS host the Webinar:

**WASTE HEAT RECOVERY & ENERGY COOPERATION IN EUROPEAN INDUSTRIES**

The aim of the Webinar "Waste heat recovery and energy cooperation in European Industries" is to explore different solutions to enhance a smart and sustainable energy use in industrial contexts, as well as WH/C recovery and reutilization, to find synergies between the work the different projects are carrying out, and to raise awareness among stakeholders on the new tools under development. Likewise, the Webinar will include time for discussion and questions from the audience (Q&A session). Participants will leave with a deeper understanding of how to optimize energy use and recovery in industrial environments.

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## Energy Efficiency in Industrial Processes – EEIP

<https://ee-ip.org/es/article/barriers-to-data-collection-in-industrial-energy-audits-1784>




**Energy Efficiency** is connected.

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### Barriers to Data Collection in Industrial Energy Audits

18 Jun 2020 by [Giorgio Bonvicini](#)



An **energy audit** is one of the most efficient tools for industries to achieve a better understanding of the energy flows within the plant, to benchmark consumptions with reference values for the sector and to identify opportunities for improvement of energy efficiency level, especially concerning waste heat and waste cold (WH/C) exploitation.

Within the **SO WHAT project**, an integrated software will be developed and demonstrated that supports industries and energy utilities in the selection and evaluation of alternative WH/C exploitation technologies that could cost-effectively balance the local H&C demand also with renewable energy sources (RES) integration.

During the first phases of the project, an analysis was carried out to identify the core data needed for an energy audit and specifically for the tool under development, capitalizing RINA experience in energy audits and research projects as well as collecting data from the SO WHAT project demonstrators.


This article focuses on the **barriers** typically encountered in the data collection phase of an industrial energy audit; the full analysis is presented in SO WHAT Deliverable D1.4.

The main barriers to data collection identified are hereby presented and briefly discussed:

- confidentiality issues, which obstacle the provision of documents that are available within the plant or the company; this barrier seems to be unjustified when the concerns are related to sharing information with project partners – for which a confidentiality agreement is in place – or with an energy consultant, whose role is to support the company in energy-related topics and where needed is ready to sign a non-disclosure agreement based on the needs of the client;
- detailed data available only on core processes and machines; this barrier does not allow a uniformly detailed analysis of energy consumptions and features for example for auxiliary services that usually are those presenting the most important opportunities for waste heat and cold valorisation (e.g.: economizers on steam boilers, heat recovery from compressors' cooling air or water, from chillers/heat pumps, etc.);
- lack of monitored data on heat carriers (steam, hot water, chilled water, hot gases and fluids, etc.), which obstacles the identification of possible users for the potentially recovered waste heat and cold or even of potential opportunities for waste heat and cold recovery;
- lack of detailed information on building characteristics and H&C demand, which obstacles the estimation of the heat demand and consequently - like in the previous barrier - the identification of possible users for the potentially recovered waste heat and cold;
- non-standard availability of documents in different plants, which constitutes a barrier for the elaboration of data collection strategies and protocols, especially in view of the use in an automated tool;
- non-standard format of information across different plants, with the same effects of the previous barrier.

In the next phases of the projects, protocols and procedures for the collection of the needed data will be developed and - in parallel - the algorithms for the SO WHAT software will be developed; more details on project activities and all public deliverables are available and will be regularly updated on the [project website](#).

#### About Giorgio Bonvicini



Giorgio Bonvicini is a certified EGE (Italian "Expert in Energy Management") and Senior Engineer at RINA. He carried out so far ~100 energy/GHG audits at industrial and tertiary companies and is contributing to EU research projects on sustainable energy, including efficient DHC systems and biofuels.

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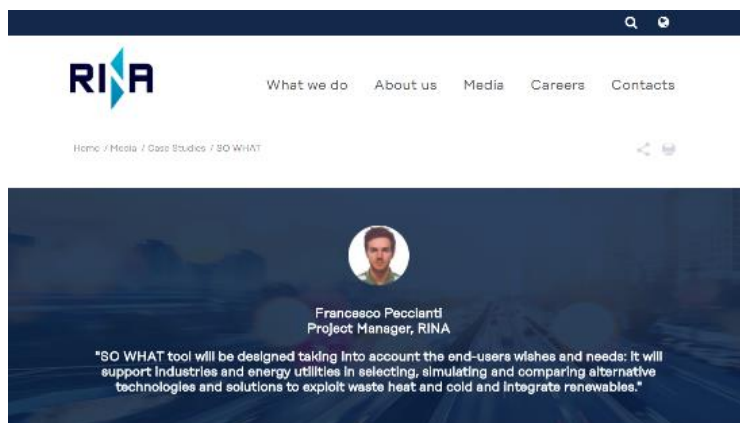
<https://www.sustainableinnovations.eu/es/so-what-project-innovation-in-recovering-waste-heat-and-cold/>



The screenshot shows the Sustainable Innovations website. At the top, there is a green header with the Sustainable INNOVATIONS logo and a hamburger menu icon. Below the header, the word "Noticias" (News) is displayed in large white text. The main content area features a large photograph of a group of people standing in front of a modern building. Below the photo, the article title "SO WHAT Project, innovación en la recuperación de calor y frío residual" is shown. The article is dated "EN JUNIO 10, 2019" and has "0 COMENTARIOS". The text of the article discusses the fight against global warming by developing local technologies for recovering waste heat and cold. On the right side of the page, there is a search bar labeled "BUSCAR" and a section titled "ÚLTIMAS PUBLICACIONES" (Latest Publications) which lists two articles: "SUSTAINABLE INNOVATION S pone su experiencia en divulgación, explotación y entrenamiento en capacidades al servicio de PLAST2bCLEANED" and "SUSTAINABLE INNOVATION S LOGRA UNA TASA DE ÉXITO DEL 33% EN EL PROGRAMA DE FINANCIACIÓN INNOWWIDE".

RINA's website

<https://www.rina.org/en/media/casestudies/so-what>



## SO WHAT

An integrated tool to support industries, energy utilities and municipalities for the exploitation of Waste Heat and Waste Cold



BUSINESS	PERIOD	PROJECT COORDINATOR	FUNDING SCHEME
R&D	Start date: 1 June 2019 End date: 31 May 2022	Francesco Pecclanti - RINA Consulting S.p.A.	H2020 - IA - Innovation action

### Challenge

The amount of heat wasted by industries in the form of hot water or flue gases is sufficient to cover 100% of EU's heating needs, but the potential of waste heat and cold (WH/C) is still unlocked due to a number of technical/non-technical barriers:

- Perception of technological reliability of the solutions needs to be improved
- Procedures, contracts, authorization
- Requirements need to be studied updated to facilitate the investments
- Conventional business and risk models have to be revisited and dedicated framework tailored to these investments still needs to be developed
- Innovative and economically viable transportable Thermal Energy Storage solutions has to be studied

SO WHAT has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 847097 to promote WH/C recovery and Renewable Energy Sources integration at industrial scale tackling all these challenges.



Therefore, SO WHAT main objective is to develop and demonstrate an integrated and easy-to-use tool which will support industries and energy utilities in selecting, simulating and comparing alternative Waste Heat and Waste Cold exploitation technologies that could cost-effectively balance the local forecasted Heating & cooling demand also via RES Integration.

### Approach

RINA is the Project Coordinator of SO WHAT.

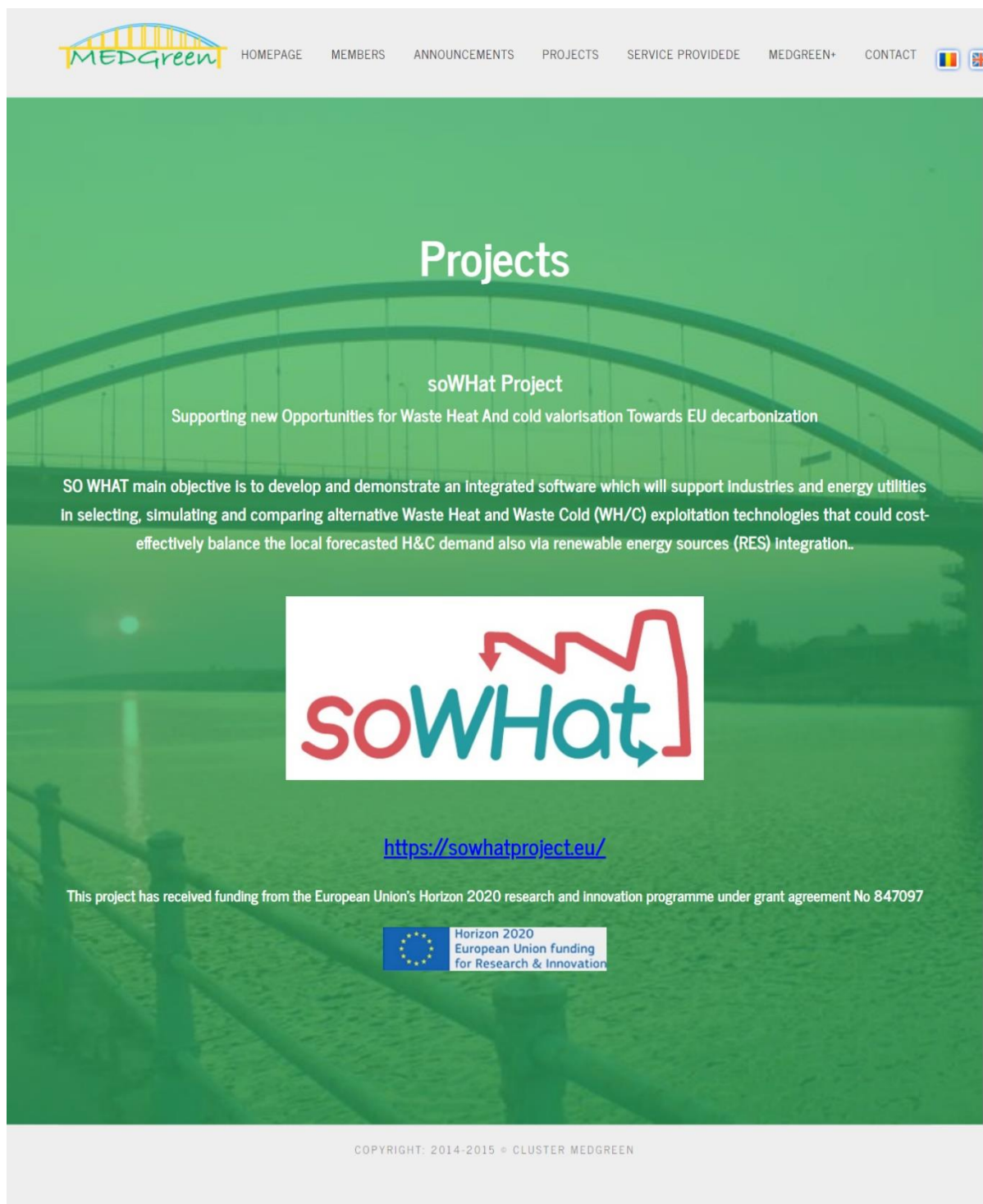
RINA is in charge of mapping the heating and cooling demand and Renewable Energy Sources potential and their integration in the industrial environment. Moreover, we are in charge of SO WHAT tool validation in real industrial demo-cases in order to:

- Define the instrumentation equipment (network of sensors, actuators, etc.) required for the diagnosis and validation monitoring;
- Validate and fine-tune of SO WHAT tool based on real data from the monitoring platform deployed in the demo cases;
- Demonstrate the techno-economic feasibility of industrial heat/cold recovery
- Ensure maximized scalability and replicability of results outlining innovative pathways

Medgreen's website



<http://www.medgreen.eu/en/proiecte.php>







The screenshot shows the 'Projects' section of the MEDGreen website. The background is a green-tinted image of a bridge. The page layout includes a navigation bar at the top with links: HOME PAGE, MEMBERS, ANNOUNCEMENTS, PROJECTS, SERVICE PROVIDEDE, MEDGREEN+, and CONTACT. There are also flags for France and the UK. The main heading is 'Projects'. Below it, the 'soWHat Project' is highlighted with the subtitle 'Supporting new Opportunities for Waste Heat And cold valorisation Towards EU decarbonization'. A paragraph describes the project's objective: 'SO WHAT main objective is to develop and demonstrate an integrated software which will support industries and energy utilities in selecting, simulating and comparing alternative Waste Heat and Waste Cold (WH/C) exploitation technologies that could cost-effectively balance the local forecasted H&C demand also via renewable energy sources (RES) Integration..'. The soWHat logo is displayed in a white box. Below the logo is the URL <https://sowhatproject.eu/>. A text line states: 'This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 847097'. A European Union funding logo is shown. At the bottom, a copyright notice reads: 'COPYRIGHT: 2014-2015 © CLUSTER MEDGREEN'.

IES Ltd. website



<https://www.iesve.com/research/intelligent-communities/so-what>


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# SO WHAT

Supporting new Opportunities for Waste Heat And cold valorisation Towards EU decarbonization

**Project Status:** In Progress (Jun 2019 - May 2022)

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## Project Summary

The main objective of SO WHAT is to develop and demonstrate a market-ready, integrated software that will support industries and energy utilities in selecting, simulating and comparing alternative Waste Heat and Waste Cold (WH/C) exploitation technologies. The tool will help determine how to cost-effectively balance the local

### Related Links

- [SO WHAT Website](#)
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The SO WHAT integrated tool will be designed to support industries and energy utilities in:

1. Auditing the industrial process to understand where WH/WC could be valorised
2. Mapping the potential of locally available RES sources to be integrated with WH/WC potential
3. Mapping the local forecasted demand for heating and cooling
4. Defining and simulating alternative cost-effective scenarios based on WH/WC technologies, also leveraging RES introduction
5. Evaluating the impacts (in terms of energetic, economic and environmental KPIs) that the adoption of the new scenarios will generate against the current situation (baseline), both at industrial and local level
6. Promoting innovative contractual arrangements and financing models to guarantee economically viable solutions and less risky investments

To achieve this, SO WHAT will capitalize on existing tools and knowledge from previous research experiences (REEMAIN, PLANHEAT, REUSEHEAT, CELSIUS) and the expertise of 11 industrial validation sites from different sectors (petrochemical, chemical, metallurgical, food, etc.) to validate the tool and provide relevant insights for its development.


The SO WHAT tool will be built following a participatory approach involving both National clusters from Spain, Portugal, Belgium, Sweden and Romania (composed of local industries, public authorities/energy agencies, energy utilities/ESCOs) as well as external stakeholders from the very beginning of the development. This will facilitate a wide, clear and structured promotion of WH/C, which will be supported by a robust training campaign and policy oriented dissemination actions.

### IES' Role

IES will serve as Technical Coordinator for the project, as well as the main lead, specifier and developer in creating the market ready SO WHAT tool, using the existing REEMAIN tool as a starting point.

### Test Sites

- Maia, Portugal
- Olen, Belgium
- Goteborg, Sweden
- Verberg, Sweden
- Antwerp, Belgium
- Willebroek, Belgium
- Pessione, Italy
- Middlesbrough, UK
- Navodari, Romania
- Constanta, Romania
- Navia, Spain



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
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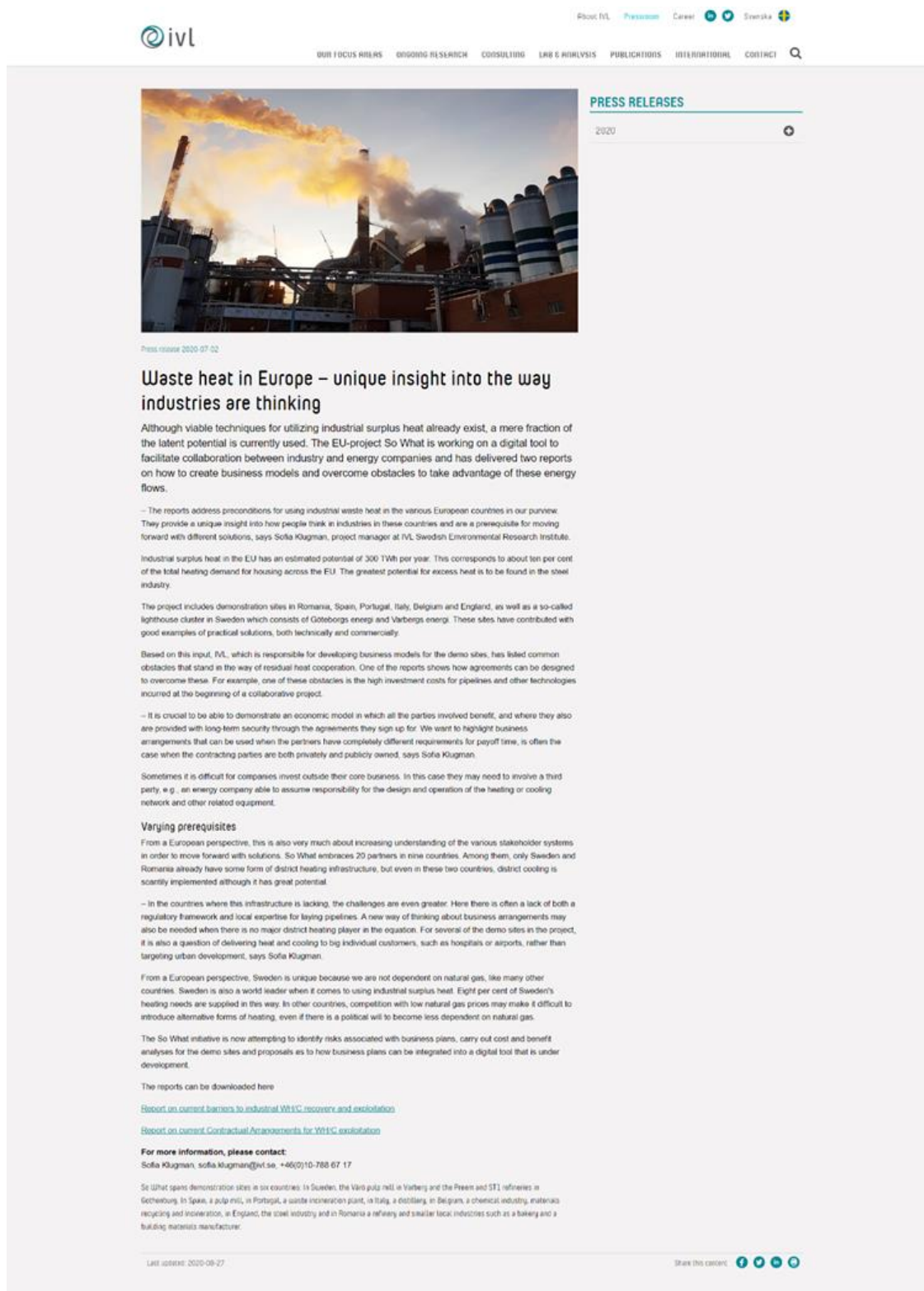
#### Region



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## IVL website

<https://www.ivl.se/english/startpage/top-menu/pressroom/press-releases/press-releases---arkiv/2020-07-02-waste-heat-in-europe---unique-insight-into-the-way-industries-are-thinking.html>



The screenshot shows the IVL website's press release page. At the top, there is a navigation bar with the IVL logo and links for 'About IVL', 'Pressroom', 'Career', 'Svenska', and a search icon. Below the navigation bar, there is a large image of an industrial facility with smokestacks emitting smoke. To the right of the image, there is a 'PRESS RELEASES' section with a date filter set to '2020'. The main headline reads 'Waste heat in Europe – unique insight into the way industries are thinking'. Below the headline, there is a sub-headline 'Although viable techniques for utilizing industrial surplus heat already exist, a mere fraction of the latent potential is currently used. The EU-project So What is working on a digital tool to facilitate collaboration between industry and energy companies and has delivered two reports on how to create business models and overcome obstacles to take advantage of these energy flows.' The body of the press release contains several paragraphs of text, including a quote from Sofia Klugman, project manager at IVL, and information about the project's goals and findings. At the bottom, there are links to download reports and contact information for Sofia Klugman.

**Waste heat in Europe – unique insight into the way industries are thinking**

Although viable techniques for utilizing industrial surplus heat already exist, a mere fraction of the latent potential is currently used. The EU-project So What is working on a digital tool to facilitate collaboration between industry and energy companies and has delivered two reports on how to create business models and overcome obstacles to take advantage of these energy flows.

– The reports address preconditions for using industrial waste heat in the various European countries in our purview. They provide a unique insight into how people think in industries in these countries and are a prerequisite for moving forward with different solutions, says Sofia Klugman, project manager at IVL Swedish Environmental Research Institute.

Industrial surplus heat in the EU has an estimated potential of 300 TWh per year. This corresponds to about ten per cent of the total heating demand for housing across the EU. The greatest potential for excess heat is to be found in the steel industry.

The project includes demonstration sites in Romania, Spain, Portugal, Italy, Belgium and England, as well as a so-called lighthouse cluster in Sweden which consists of Göteborgs energi and Varbergs energi. These sites have contributed with good examples of practical solutions, both technically and commercially.

Based on this input, IVL, which is responsible for developing business models for the demo sites, has listed common obstacles that stand in the way of residual heat cooperation. One of the reports shows how agreements can be designed to overcome these. For example, one of these obstacles is the high investment costs for pipelines and other technologies incurred at the beginning of a collaborative project.

– It is crucial to be able to demonstrate an economic model in which all the parties involved benefit, and where they also are provided with long-term security through the agreements they sign up for. We want to highlight business arrangements that can be used when the partners have completely different requirements for payoff time, is often the case when the contracting parties are both privately and publicly owned, says Sofia Klugman.

Sometimes it is difficult for companies invest outside their core business. In this case they may need to involve a third party, e.g., an energy company able to assume responsibility for the design and operation of the heating or cooling network and other related equipment.

**Varying prerequisites**

From a European perspective, this is also very much about increasing understanding of the various stakeholder systems in order to move forward with solutions. So What embraces 20 partners in nine countries. Among them, only Sweden and Romania already have some form of district heating infrastructure, but even in these two countries, district cooling is scarcely implemented although it has great potential.

– In the countries where this infrastructure is lacking, the challenges are even greater. Here there is often a lack of both a regulatory framework and local expertise for laying pipelines. A new way of thinking about business arrangements may also be needed when there is no major district heating player in the equation. For several of the demo sites in the project, it is also a question of delivering heat and cooling to big individual customers, such as hospitals or airports, rather than targeting urban development, says Sofia Klugman.

From a European perspective, Sweden is unique because we are not dependent on natural gas, like many other countries. Sweden is also a world leader when it comes to using industrial surplus heat. Eight per cent of Sweden's heating needs are supplied in this way. In other countries, competition with low natural gas prices may make it difficult to introduce alternative forms of heating, even if there is a political will to become less dependent on natural gas.

The So What initiative is now attempting to identify risks associated with business plans, carry out cost and benefit analyses for the demo sites and proposals as to how business plans can be integrated into a digital tool that is under development.

The reports can be downloaded here

[Report on current barriers to industrial WHSC recovery and exploitation](#)

[Report on current Contractual Arrangements for WHSC exploitation](#)

**For more information, please contact:**  
Sofia Klugman, sofia.klugman@ivl.se, +46(0)10-788 67 17

So What spans demonstration sites in six countries. In Sweden, the Värmdö pulp mill in Västberg and the Preen and STI refineries in Gothenburg. In Spain, a pulp mill, in Portugal, a waste incineration plant, in Italy, a distillery, in Belgium, a chemical industry, materials recycling and incineration, in England, the steel industry and in Romania a refinery and smaller local industries such as a bakery and a building materials manufacturer.

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## IVL website

<https://www.ivl.se/english/startpage/pages/ongoing-research/research-projects/climate-and-energy/so-what-develops-tools-to-take-advantage-of-unutilized-heat-and-cooling-flows.html>



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### So What develops tools to take advantage of unutilized heat and cooling flows

Techniques that exploit industrial residual heat and residual cooling are well developed, but in a pan-European perspective, only a fraction of the available potential is utilized. The project aims to develop an IT tool to facilitate cooperation between industries and energy companies to take advantage of these residual heat and residual cooling flows.

The tool should be able to simulate and compare different alternative collaborative prospects and provide support for choosing the most suitable technology for exploiting residual heat and cooling.

The tool will be developed using participatory methodology that involves four demo sites in Romania, Spain, Portugal and Belgium, as well as a so-called "lighthouse" cluster in Sweden consisting of Göteborg energi and Varberg energi. The Lighthouse cluster will highlight practically applicable solutions, both technical and commercial.

IVL is responsible for developing business models at the demo sites and studying general barriers to collaborative efforts around residual heating and showing how agreements can be reached that will overcome these barriers. IVL also coordinates the Swedish lighthouse cluster.

Project facts

**Supporting new Opportunities for Waste Heat And cold valorisation Towards EU decarbonization – So What**

- Period:** 2019-2022
- Budget:** 6 MSEK, total of 3,4 MEUR in the project
- Contact:** Sofia Klugman

**Partners:**  
20 partners in nine countries. Göteborg energi, Varberg energi, IES Research and Development, Fundacion Cartif, Rina consulting SPA, The University of Birmingham, Sustainable Innovations Europe SL, Vertech group, Sustenteppoeia Unipessoal Lda, Adeporto – Agência de energia do Porto, Kelvin Solutions, Fundacion Asturiana de la energia, Provinciale Ontwikkelingsmaatschappij Antwerpen, Medgreen, Martini and Rossi SPA, Servicio Intermunicipalizado de gestao de residuos do Grande Porto, Radet Constanta, Materials processing institute, Eleukon global

**Finance:** EU Horizon 2020, Grant agreement No: 847 097

**Webpage:**  
[sowhatproject.eu/](http://sowhatproject.eu/)

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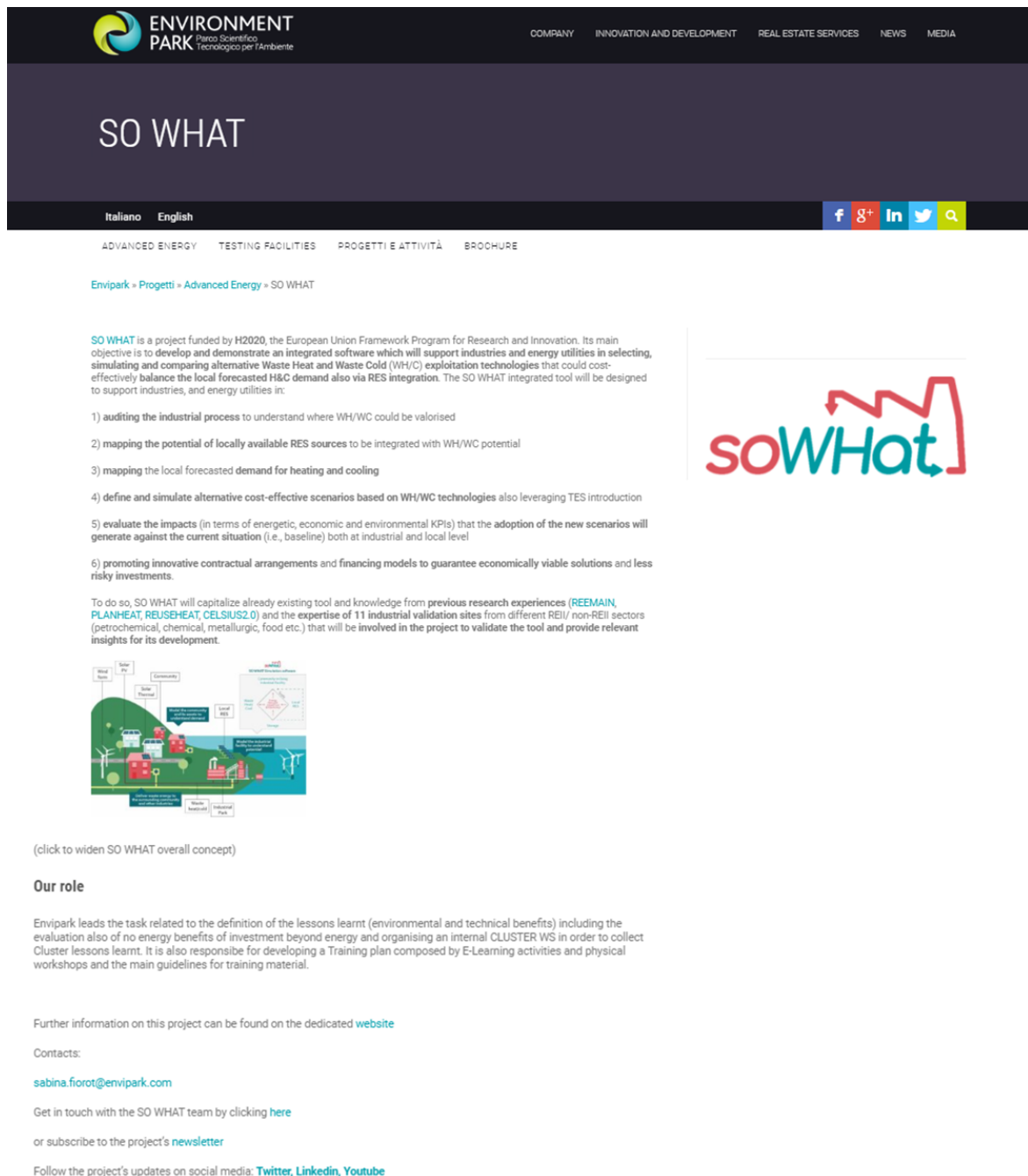




## ENVI website

<https://www.envipark.com/progetto/so-what/>

Two languages : English and Italian



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# SO WHAT

Italiano English


ADVANCED ENERGY TESTING FACILITIES PROGETTI E ATTIVITÀ BROCHURE

Envipark » Progetti » Advanced Energy » SO WHAT

**SO WHAT** is a project funded by H2020, the European Union Framework Program for Research and Innovation. Its main objective is to develop and demonstrate an integrated software which will support industries and energy utilities in selecting, simulating and comparing alternative Waste Heat and Waste Cold (WH/C) exploitation technologies that could cost-effectively balance the local forecasted H&C demand also via RES integration. The SO WHAT integrated tool will be designed to support industries, and energy utilities in:

- 1) auditing the industrial process to understand where WH/WC could be valorised
- 2) mapping the potential of locally available RES sources to be integrated with WH/WC potential
- 3) mapping the local forecasted demand for heating and cooling
- 4) define and simulate alternative cost-effective scenarios based on WH/WC technologies also leveraging TES introduction
- 5) evaluate the impacts (in terms of energetic, economic and environmental KPIs) that the adoption of the new scenarios will generate against the current situation (i.e., baseline) both at industrial and local level
- 6) promoting innovative contractual arrangements and financing models to guarantee economically viable solutions and less risky investments.

To do so, SO WHAT will capitalize already existing tool and knowledge from previous research experiences ([REEMAIN](#), [PLANHEAT](#), [REUSEHEAT](#), [CELSIUS2.0](#)) and the expertise of 11 industrial validation sites from different REII/ non-REII sectors (petrochemical, chemical, metallurgic, food etc.) that will be involved in the project to validate the tool and provide relevant insights for its development.



(click to widen SO WHAT overall concept)

### Our role

Envipark leads the task related to the definition of the lessons learnt (environmental and technical benefits) including the evaluation also of no energy benefits of investment beyond energy and organising an internal CLUSTER WS in order to collect Cluster lessons learnt. It is also responsible for developing a Training plan composed by E-Learning activities and physical workshops and the main guidelines for training material.

Further information on this project can be found on the dedicated [website](#)

Contacts:

[sabina.fiorot@envipark.com](mailto:sabina.fiorot@envipark.com)

Get in touch with the SO WHAT team by clicking [here](#)

or subscribe to the project's [newsletter](#)

Follow the project's updates on social media: [Twitter](#), [LinkedIn](#), [Youtube](#)

## FAEN Website

<http://www.fael.es/project/so-what/>



The screenshot shows the FAEN website's project page for 'SO WHAT'. The header includes the FAEN logo and navigation links. The main content area features a large 'SO WHAT' title, a description of the project's goal to develop tools for industrial heat recovery, and a list of team members. A section titled 'NOTICIAS relacionadas' (Related News) contains two articles: 'Reunión Proyecto So What en Amberes' (November 11, 2019) and 'Visita instalaciones ENCE' (October 21, 2019). Below this is a 'MÁS INFORMACIÓN' (More Information) section detailing the project's funding by the European Union under the Horizon 2020 program. The page also includes a 'DOCUMENTOS RELACIONADOS' (Related Documents) section with a list of newsletters and a 'SOCIOS' (Partners) section displaying logos of various collaborating organizations.









## Ziua Constanta

<https://www.ziuaconstanta.ro/informatii/radet/are-ca-scop-dezvoltarea-si-validarea-unei-platforme-software-integrate-radet-implementeaza-proiectul-european-sowhat-717133.html>

Acasa Publicitate Arhiva GDPR Contact

15:04 01.09.2020

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Acasa » RADET » Are ca scop dezvoltarea și validarea unei platforme software integrate: RADET implementează proiectul European „soWhat”

### Are ca scop dezvoltarea și validarea unei platforme software integrate RADET implementează proiectul European „soWhat”

13 Apr, 2020 15:38 Cătălina BĂLTĂREȚU 7579

ARTICOL COMPLET GALERIE FOTO (1) VERSIUNE PRINTABILA



R.A.D.E.T. Constanța, alături de 20 de parteneri din 9 țări Europene, implementează proiectul European „soWhat” (acronim al „Supporting new Opportunities for Waste Heat And cold valorisation Towards EU decarbonization”) – „Sprijinirea de noi oportunități de valorificare ale fluxurilor de căldură reziduală sau de răcire din instalații industriale în scopul sprijinirii inițiativelor de decarbonizare a fluxurilor de energie utilizate în cadrul UE”.

Acest proiect are ca scop dezvoltarea și validarea unei platforme software integrate, care să sprijine operatorii din industrie și serviciile publice energetice în selectarea, simularea și compararea tehnologiilor alternative de valorificare a pierderilor de căldură și de răcire, care pot contribui la asigurarea cu costuri reduse a cererilor prognozate de energie pentru încălzire și răcire la nivelul fiecărei comunități și de a facilita integrarea surselor regenerabile de energie.

Acest proiect este finanțat prin Programul de Cercetare și Inovare „Orizont 2020” al Uniunii Europene, în baza contractului de finanțare Nr. 847097.

Mai multe informații pot fi găsite la Pagina Web: <https://sowhatproject.eu/>

Parteneriatul proiectului cuprinde 5 institute de cercetare, o universitate, 8 societăți comerciale, un cluster de inovare, o companie de consultanță și 4 entități publice/agenții energetice. Mai multe detalii despre parteneri pot fi găsite la Pagina web: <https://sowhatproject.eu/partners/>

Platforma software „soWhat” care se va realiza prin implementarea proiectului va conduce la:

- asigurarea unei erori predictive cu valori maxime cuprinse între 5% și 10% în ceea ce privește estimarea energiei recuperate și rezultatele analizelor cost-beneficiu pentru proiectele de acest tip.
- reducerea costurilor și timpului aferent Auditului Energetic și prin urmare, al proiectelor de recuperare a energiei reziduale cu până la 0.4 €/m2 și până la 3-5 zile/audit (prin reducerea numărului de vizite).
- creșterea progresivă a numărului de noi proiecte în recuperarea industrială a energiei reziduale, estimându-se că va fi posibilă implementarea a 27,705 proiecte până în 2030.

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acum 25 minute # 93

**Constanța**  
Încă două decese, cauzate de infectare cu coronavirus  
acum 38 minute # 139

**DSP Constanța**  
Pacienți angajați ale laboratorului din Spitalul Orășenesc Cernavodă, confirmate cu SARS-CoV-2  
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Ziare Live

<https://www.ziarelive.ro/stiri/are-ca-scop-dezvoltarea-si-validarea-unei-platforme-software-integrate-radet-implementeaza-proiectul-european-sowhat.html>



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**Patru angajate ale Spitalului Cernavodă din Constanța au fost confirmate cu COVID-19**

Patru angajate ale laboratorului din cadrul Spitalului Orășenesc Cernavodă au fost confirmate cu COVID-19 la sfârșitul săptămânii trecute, acestea fiind internate la unitatea medicală din Medgidia. Persoanele care au intrat în contact... [citeste mai departe](#)

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**Are ca scop dezvoltarea si validarea unei platforme software integrate: RADET implementeaza proiectul European soWHat**

Publicat: Luni, 13 Aprilie 2020, 15:59

R.A.D.E.T. **Constanța**, alaturi de 20 de parteneri din 9 tari **Europene**, **Implementeaza proiectul** European "soWHat" acronim al "**Supporting new Opportunities for Waste Heat And cold valorisation Towards EU decarbonization**" ndash; "**Sprjinirea de noi Oportunitati de valorificare ale fluxurilor de caldura reziduala sau de racire din instalatii industriale in scopul sprijiniri initiativelor de decarbonizare a fluxurilor de energie utilizate in cadrul UE**"

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## Spillvärme i Europa – unik inblick i industriernas tänkesätt

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Trots att det finns bra tekniker för att använda industriell överskottsvärme är det bara en bråkdel av potentialen som används. EU-projektet So What utvecklar ett digitalt verktyg för att underlätta samarbeten mellan industrier och energiföretag och presenterar nu två rapporter om hur man kan skapa affärsmodeller och överbygga hinder för att ta vara på dessa energiflöden.

– Rapporterna handlar om förutsättningarna för att använda industriell spillvärme i de olika europeiska länderna som vi jobbar med. De ger en unik inblick i hur man tänker i industrier i olika länder, vilket är en förutsättning för att komma vidare med olika lösningar, säger Sofia Klugman, projektledare på IVL Svenska Miljöinstitutet.

Den uppskattade potentialen för industriell överskottsvärme i EU är 300 TWh per år. Det motsvarar ungefär tio procent av det totala värmebehovet för bostäder i EU. Allra störst potential för överskottsvärme finns i stålindustrin.

I projektet ingår fem demonstrationssajter i Rumänien, Spanien, Portugal, Belgien och England samt ett så kallat "lighthouse"-kluster i Sverige som består av Göteborgs energi och Varbergs energi. De har bidragit med goda exempel på praktiskt tillämpbara lösningar, både tekniskt och affärsmässigt.

IVL som ansvarar för att utveckla affärsmodeller för demosajterna har utifrån dessa erfarenheter listat vilka generella hinder det finns för restvärmesamarbete, och i den ena rapporten visar man hur avtal kan utformas för att överbygga dessa hinder. Ett hinder är de höga investeringskostnader som kan bli för till exempel rörledningar och annan teknik i början av ett samarbete.

– Det är avgörande att kunna visa en ekonomisk modell där alla inblandade parter får fördelar av samarbetet och där de också får en mer långsiktig trygghet genom de avtal de tecknar. Vi vill lyfta fram affärsupplägg som kan användas när samarbetsparterna har helt olika krav på återbetalningstid, till exempel om de är privat eller offentlig ägda, säger Sofia Klugman.



ibland är det svårt för företagen att göra investeringar utanför kärnverksamheten. Då kan de behöva involvera en tredje part, som till exempel ett energiföretag som tar ansvar för konstruktion och drif av värme- eller kylnätet och annan relaterad utrustning.


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Ny rapport om förutsättningarna för industriell spillvärme i EU. Foto: IVL






Publicerad av   peter höök - 3 jul, 2020

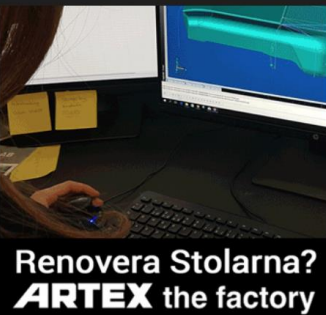
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
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# Spillvärme i Europa – unik inblick i industriernas tankesätt








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Olika förutsättningar

I ett europeiskt perspektiv handlar det också mycket om att öka förståelsen för de olika intressenternas system för att komma vidare med lösningar. I So What ingår 20 partners i nio länder. Bland dem är det bara Sverige och Rumänien som har en utbyggd infrastruktur för fjärrvärme, men även där är fjärrkyla lite utbyggt och har en stor potential.

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För mer info och bokning, [www.packoplast.se](http://www.packoplast.se)

## Spillvärme i Europa – unik inblick i industriernas tankesätt

Trots att det finns bra tekniker för att använda industriell överskottsvärme är det bara en bråkdel av potentialen som används. EU-projektet So What utvecklar ett digitalt verktyg för att underlätta samarbeten mellan industrier och energiföretag och presenterar nu två rapporter om hur man kan skapa affärsmodeller och överbrygga hinder för att ta vara på dessa energiflöden.

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**Läs också:** [Ny studie jämför plastflaskor med andra alternativ](#)

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Två rapporter presenterar Industrins tankar kring spillvärme.

Foto: Colourbox



Av [Martin Wannerholm](#)  
den 3 augusti 2020 08:59

Annons



### MEST LÄST

Tar Veolia över Suez?

Ragn-Sells i fördjupat partnerskap för fosforutvinning

Ny märkning för minskat matsvinn

Spiralekonomi räddar framtiden?

Sopsugsystem till två områden

### FÖRETAGENS EGNA NYHETER

Äntligen - nu är vi ett bolag: Metso Outotec

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Hemsidor ökar försäljningen med klimatsymbol!

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## Processnet

[https://www.processnet.se/article/view/726674/spillvarme\\_i\\_europa\\_unik\\_inblick\\_i\\_industriernas\\_tankesatt](https://www.processnet.se/article/view/726674/spillvarme_i_europa_unik_inblick_i_industriernas_tankesatt)

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Två rapporter presenterar industrins tankar kring spillvärme.  
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den 3 augusti 2020 08:59

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**Läs också:** Ny pilotanläggning ska utvinna kväve ur avloppsvatten

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**Läs också:** "Säkerhet får inte vara en prioriteringsfråga"

Ibland är det svårt för företagen att göra investeringar utanför kärnverksamheten. Då kan de behöva involvera en tredje part, som till exempel ett energiföretag som tar ansvar för konstruktion och driften av värme- eller kylnätet och annan relaterad utrustning.

I ett europeiskt perspektiv handlar det också mycket om att öka förståelsen för de olika intressenternas system för att komma vidare med lösningar. I So What ingår 20 partners i nio länder. Bland dem är det bara Sverige och Rumänien som har en utbyggd infrastruktur för fjärrvärme, men även där är fjärrkyla lite utbyggt och har en stor potential.

– I de länder där infrastrukturen saknas är utmaningarna större. Ofta saknas det både regelverk och lokal kompetens för att lägga rörledningar. Ett nyttänk för affärsupplägg kan också behövas när det inte finns en stor fjärrvärmeaktör som part. För flera av demosajterna i projektet handlar det även om leverans av värme och kyla till enskilda stora kunder, som till sjukhus eller en flygplats, snarare än stadsbebyggelse, säger Sofia Klugman.

I ett europeiskt perspektiv är Sverige unikt eftersom vi inte är beroende av naturgas som många andra länder. Sverige är också världsledande på att använda industriell överskottsvärme. Åtta procent av Sveriges värmebehov försörjs med detta. I andra länder kan konkurrens med låga naturgaspriser göra det svårt att introducera alternativa uppvärmningsformer, även om det finns en politisk vilja att bli mindre beroende av naturgas.

I So What arbetar man nu vidare med att identifiera risker med affärsuppläggen, göra kostnads- och nyttoanalyser för demosajterna och föreslå hur affärsupplägg ska integreras i det digitala verktyget som projektet utvecklar.

### MEST LÄST

Marknaden för tryckpapper kollapsar

Här är framtidens kärnkraft - Del 1

Nu har nästan hundratusen varslats

Hennes forskning ska hjälpa mar

Här planeras för en batterifabrik

FÖRETAGENS EGNA NYHE

Smarta automatiserings- och övervakningssystem (SAMS)!

Kostnadsfritt webinar i nya E-se oljefri tryckluft

RFID minimerar fel och stillestå under formatändring!

Höstens kostnadsfria webinarprogram är ute nu- JUMO

Nyheter: CC-Link IE Field Basic Network Master med IO-Link

[Se alla medlemsnyheter](#)

## Metal Supply

[https://www.metal-supply.se/article/view/726833/overskottsvarmen\\_finns\\_framst\\_i\\_stalindustrin?ref=rss](https://www.metal-supply.se/article/view/726833/overskottsvarmen_finns_framst_i_stalindustrin?ref=rss)



## Överskottsvärmen finns främst i stålindustrin

Det handlar om att ta vara på spillvärmen i Europa.

Trots att det finns bra tekniker för att använda industriell överskottsvärme är det bara en bråkdel av potentialen som används. Det menar EU-projektet So What som utvecklar ett digitalt verktyg för att underlätta samarbeten mellan industrier och energiföretag. Nu presenteras två rapporter om hur man kan skapa affärsmodeller och överbrygga hinder för att ta vara på dessa energiflöden.

**Läs också:** Nya drömmarregler skjuts fram på grund av coronan

– Rapporterna handlar om förutsättningarna för att använda industriell spillvärme i de olika europeiska länderna som vi jobbar med. De ger en unik inblick i hur man tänker i industrier i olika länder, vilket är en förutsättning för att komma vidare med olika lösningar, säger Sofia Klugman, projektledare på IVL Svenska Miljöinstitutet.

Enligt projektet är den uppskattade potentialen för industriell överskottsvärme i EU 300 TWh per år. Det motsvarar ungefär tio procent av det totala värmebehovet för bostäder i EU. Allra störst potential för överskottsvärme menar man finns i stålindustrin.

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Foto: Colourbox

Av **Anna Broberg**  
den 17 juli 2020 07:15





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<https://www.dagensnaringsliv.se/20200703/191096/stor-potential-industriell-overskottsvarme-i-eu?page=0%2C1>

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## Stor potential för industriell överskottsvärme i EU



Ny rapport om förutsättningarna för industriell spillvärme i EU. Foto: IVL



Publicerad av  
peter höök - 3 jul, 2020

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## 7 ANNEX II: WEBINAR AGENDA

11:00 – 11:05 Introduction to the webinar and projects [Ana Martinez and Francesco Peccianti]

11.05 – 11.20 Waste heat, an introduction on its relevance [Eric Lecomte - EC]

11:20 – 11:40 Thematic area 1 Cooperation and industrial parks: [S-PARCS, INCUBIS, R-ACES]

- S-PARCS: [Andrea Kollmann]
  - Context and brief introduction of the project
  - How will it empower cooperation in industrial parks?
- INCUBIS: [Yorgos Chalkias]
  - Context and brief introduction of the project
  - How will it empower cooperation in industrial parks?
- R-ACES: [Peter Verboven]
  - Context and brief introduction of the project
  - How will it empower cooperation in industrial parks?

11:40 – 12:10 Thematic area 2 Tools to empower WH recovery: the perspective of relevant EU research projects

- SO WHAT: [Nick Purshouse]
  - Context and brief introduction of the project
  - Expected outcomes and tools. How will it empower WH recovery?
- S-PARCS: [Lola Mainar]
  - Context and brief introduction of the project
  - Expected outcomes and tools. How will it empower WH recovery?
- EMB<sub>3</sub>RS: [Zenaida Mourao]
  - Context and brief introduction of the project
  - Expected outcomes and tools. How will it empower WH recovery? -

12.10 – 12.15 Conclusions [Francesco Peccianti]

12:15 – 12:30 Questions & Answers



## 8 ANNEX III: EUROPEAN ASSOCIATIONS

STAKEHOLDER	COUNTRY	WEBSITE
World Energy Council	Austria	<a href="https://www.wec-austria.at/">https://www.wec-austria.at/</a>
BELESCO (Belgian ESCO Association)	Belgium	<a href="https://www.belesco.be/">https://www.belesco.be/</a>
ABEA - Association of Bulgarian Energy Agencies	Bulgary	<a href="https://new.abea-bg.org/?lng=EN">https://new.abea-bg.org/?lng=EN</a>
Bulgarian Energy Holding	Bulgary	<a href="https://www.bgenh.com/">https://www.bgenh.com/</a>
World Energy Council	Croatia	<a href="http://www.hed.hr/">http://www.hed.hr/</a>
Association of Energy Service Providers (APES) of the Czech Republic	Czech Republic	<a href="http://www.apes.cz/">http://www.apes.cz/</a>
E.ON Energie, a.s	Czech Republic	<a href="http://www.eon.cz">www.eon.cz</a>
World Energy Council	Estonia	<a href="http://www.wec-estonia.ee/kontakt/">http://www.wec-estonia.ee/kontakt/</a>
European Chemical Industry Council	EU	<a href="https://cefic.org/">https://cefic.org/</a>
European Committee of Manufacturers of Electrical Machines and Power Electronics	EU	<a href="https://cemep.eu/">https://cemep.eu/</a>
Energy Efficiency in Industrial Processes	EU	<a href="https://www.eera-set.eu/component/projects/projects.html?id=44">https://www.eera-set.eu/component/projects/projects.html?id=44</a>
European Energy Research Alliance	EU	<a href="https://www.eera-set.eu/">https://www.eera-set.eu/</a>
European Platform of Universities in Energy Research and Education of the European University Association	EU	<a href="https://www.energy.eua.eu/">https://www.energy.eua.eu/</a>
European Confederation of Iron and Steel Industries	EU	<a href="http://www.eurofer.org/">http://www.eurofer.org/</a>
District Heating & Cooling and Combined Heat & Power Association	EU	<a href="https://www.euroheat.org/">https://www.euroheat.org/</a>

Mechanical, Electrical & Electronic, Metalworking & Metal articles industries	EU	<a href="https://orgalim.eu/">https://orgalim.eu/</a>
SPIRE - Sustainable Process Industry through Resource and Energy Efficiency	EU	<a href="https://www.spire2030.eu/">https://www.spire2030.eu/</a>
EU Geothermal Energy Council	EU	<a href="https://www.egec.org/">https://www.egec.org/</a>
European associations representing the turbine sector in Europe	EU	<a href="https://www.eugine.eu/">https://www.eugine.eu/</a>
EIT INNOENERGY IBERIA S.L.	EU	<a href="https://www.innoenergy.com/">https://www.innoenergy.com/</a>
European Technology and Innovation Platform on Renewable Heating and Cooling	EU	<a href="https://www.rhc-platform.org/">https://www.rhc-platform.org/</a>
EUREC - Association of European Renewable Energy Research Centres	EU	<a href="https://eurec.be/">https://eurec.be/</a>
The Coalition for Energy Savings	EU	<a href="http://energycoalition.eu/">http://energycoalition.eu/</a>
EUASE - European Alliance to Save Energy	EU	<a href="https://euase.net/contact-us/">https://euase.net/contact-us/</a>
EuroACE - European Alliance of Companies for Energy Efficiency in Buildings	EU	<a href="https://euroace.org/">https://euroace.org/</a>
HEAL - Health and Environment Alliance	EU	<a href="https://www.env-health.org/">https://www.env-health.org/</a>
Sit4energy	EU	<a href="https://sit4energy.eu/">https://sit4energy.eu/</a>
EDIEES - European Federation of Intelligent Energy Efficiency Services	EU	<a href="http://www.efiees.eu/">http://www.efiees.eu/</a>
DHC Plus	EU	<a href="http://dhcplus.eu">dhcplus.eu</a>
FEDENE - Fédération des services énergie environnement	France	<a href="https://www.fedene.fr/c">https://www.fedene.fr/c</a>
Electricité de France (EDF)	France	<a href="http://www.edf.fr/">/www.edf.fr/</a>
Berliner Energy Agentur	Germany	<a href="https://www.berliner-e-agentur.de/en">https://www.berliner-e-agentur.de/en</a>

SEAI - Sustainable Energy Authority of Ireland	Ireland	<a href="https://www.seai.ie/">https://www.seai.ie/</a>
Irish District Energy Association	Ireland	<a href="https://www.districtenergy.ie/">https://www.districtenergy.ie/</a>
ARERA - Italian Regulatory Authority for Energy	Italy	<a href="https://www.arera.it/">https://www.arera.it/</a>
ENEA - Agenzia nazionale per le nuove tecnologie, l'energia e lo sviluppo economico sostenibile	Italy	<a href="https://www.enea.it/">https://www.enea.it/</a>
KAPE - The Polish National Energy Conservation Agency	Poland	<a href="https://www.kape.gov.pl/">https://www.kape.gov.pl/</a>
Direção-Geral de Energia e Geologia	Portugal	<a href="http://www.dgeg.gov.pt/">http://www.dgeg.gov.pt/</a>
Romanian Energy Regulatory Authority	Romania	<a href="https://www.anre.ro/ro/contact">https://www.anre.ro/ro/contact</a>
IDAE - Instituto para la Diversificación y Ahorro de la Energía	Spain	<a href="https://idaes.es/">https://idaes.es/</a>
ANESE - Asociación Nacional de Empresas de Servicios Energético	Spain	<a href="https://www.anese.es/">https://www.anese.es/</a>
APPA Renovables - Spanish Renewable Energy Association Spain	Spain	<a href="https://www.appa.es/">https://www.appa.es/</a>
ASOCIACIÓN DE EMPRESAS DE ENERGÍA ELECTRICA	Spain	<a href="https://aelec.es/">https://aelec.es/</a>
ASOCIACIÓN DE EMPRESAS DE MANTENIMIENTO INTEGRAL Y SERVICIOS ENERGÉTICOS	Spain	<a href="http://www.amiasociacion.es/">http://www.amiasociacion.es/</a>
Asociación de Empresas de Energías Renovables	Spain	<a href="https://www.appa.es/">https://www.appa.es/</a>
Asociación Empresarial Eólica	Spain	<a href="https://aeolica.org/">https://aeolica.org/</a>
Sedigas - Asociación Española del Gas	Spain	<a href="https://www.sedigas.es/">https://www.sedigas.es/</a>
ASOCIACION ESPAÑOLA OPERADORES DEL PETROLEO	Spain	<a href="https://www.aop.es/">https://www.aop.es/</a>

Asociación Nacional de Empresas de Servicios Energéticos	Spain	<a href="https://www.anese.es/">https://www.anese.es/</a>
Asociación Nacional de Productores Fotovoltaicos - ANPIER	Spain	<a href="https://anpier.org/">https://anpier.org/</a>
Asociación para un Gas Industrial Competitivo - GasIndustrial	Spain	<a href="https://www.gasindustrial.es/">https://www.gasindustrial.es/</a>
Centro Nacional de Energías Renovables	Spain	<a href="http://www.cener.com/">http://www.cener.com/</a>
Ente Vasco de la Energía	Spain	<a href="http://www.eve.es/">http://www.eve.es/</a>
IMDEA Energía	Spain	<a href="https://www.energia.imdea.org/">https://www.energia.imdea.org/</a>
EREN - Ente Regional de la Energía de la Junta de Castilla y León	Spain	<a href="http://www.energia-jcyl.es">www.energia-jcyl.es</a>
EEF Energi Effektiviserings Foretagen	Sweden	<a href="https://eef.se/">https://eef.se/</a>
Swedish Energy Agency	Sweden	<a href="http://www.energimyndigheten.se/">http://www.energimyndigheten.se/</a>
SweHeat	Sweden	<a href="https://sweheat.com/">https://sweheat.com/</a>
Smart City Sweden	Sweden	<a href="https://smartcitysweden.com/">https://smartcitysweden.com/</a>
Innovate UK	UK	<a href="https://www.gov.uk/government/organisations/innovate-uk">https://www.gov.uk/government/organisations/innovate-uk</a>
Energy Managers Association	UK	<a href="https://www.theema.org.uk/contact-us/">https://www.theema.org.uk/contact-us/</a>

## 9 ANNEX III: DISSEMINATION TABLE

TYPE OF ACTIVITY	MAIN LEADER	TITLE	DATE	PLACE	TYPE OF AUDIENCE	SIZE OF AUDIENCE	LINK
Social media	Pedro Fonseca / 2GOOUT	Second newsletter	20-November 2019	Twitter	General audience	132 followers	<a href="https://twitter.com/Pedro_2GO_OUT/status/1197213223000453127">https://twitter.com/Pedro_2GO_OUT/status/1197213223000453127</a>
Social media	2GOOUT	Second newsletter	20-November 2019	Twitter	General audience	26 followers	<a href="https://twitter.com/2GO_OUT/status/1197109102184402944">https://twitter.com/2GO_OUT/status/1197109102184402944</a>

Social media	2GOOUT	Workshop and panel in Antwerp	12-November 2019	Twitter	General audience	26 followers	<a href="https://twitter.com/2GO_OUT/status/1194207834000502784">https://twitter.com/2GO_OUT/status/1194207834000502784</a>
Social media	2GOOUT	General post	June 2020	LinkedIn	General audience	515	<a href="https://www.linkedin.com/posts/2go-out-consulting_wasteheat-wastecold-activity-6674227691383848960-ISON">https://www.linkedin.com/posts/2go-out-consulting_wasteheat-wastecold-activity-6674227691383848960-ISON</a>
Social media	2GOOUT	General post	May 2020	LinkedIn	General audience	515	<a href="https://www.linkedin.com/posts/2go-out-consulting_so-what-partners-activity-6671342148664729600-xgnB">https://www.linkedin.com/posts/2go-out-consulting_so-what-partners-activity-6671342148664729600-xgnB</a>
Social media	2GOOUT	General post	July 2, 2020	Twitter	General audience	33 followers	<a href="https://twitter.com/2GO_OUT/status/1278625326772428806">https://twitter.com/2GO_OUT/status/1278625326772428806</a>
Social media	2GOOUT	General post	June 4, 2020	Twitter	General audience	33 followers	<a href="https://twitter.com/2GO_OUT/status/1268462600662265856">https://twitter.com/2GO_OUT/status/1268462600662265856</a>
Social media	2GOOUT	General post	April 15, 2020	Twitter	General audience	33 followers	<a href="https://twitter.com/2GO_OUT/status/1250438382972334081">https://twitter.com/2GO_OUT/status/1250438382972334081</a>
Social media	2GOOUT	General post	March 25, 2020	Twitter	General audience	33 followers	<a href="https://twitter.com/2GO_OUT/status/1242839364494864391">https://twitter.com/2GO_OUT/status/1242839364494864391</a>
Social media	2GOOUT	General post	March 5, 2020	Twitter	General audience	33 followers	<a href="https://twitter.com/2GO_OUT/status/1235534025688862721">https://twitter.com/2GO_OUT/status/1235534025688862721</a>
Social media	2GOOUT	General post	July 2, 2020	Twitter	General audience	34 followers	<a href="https://twitter.com/2GO_OUT/status/1278625326772428806">https://twitter.com/2GO_OUT/status/1278625326772428806</a>
News	2GOOUT	2Go Out continues to scale internationally	December 2019	Ambiente Magazine	Environment and energy		<a href="https://www.ambientemagazine.com/2go-out-consulting-continua-a-ganhar-escala-internacional/">https://www.ambientemagazine.com/2go-out-consulting-continua-a-ganhar-escala-internacional/</a>
Social media Post	CARTIF	General post	May 20, 2020	Twitter		2830	<a href="https://twitter.com/CARTIFCT/status/1263024229773172736">https://twitter.com/CARTIFCT/status/1263024229773172736</a>
Social media Post	CARTIF	General post	May 20, 2020	Twitter		2830	<a href="https://twitter.com/CARTIFCT/status/1235181974861602821">https://twitter.com/CARTIFCT/status/1235181974861602821</a>
Social media Post	CARTIF	General post	December 2019	Twitter		2830	<a href="https://twitter.com/CARTIFCT/status/1204668660385800192">https://twitter.com/CARTIFCT/status/1204668660385800192</a>
Social media post	ELEUKON	General post	October 2020	LinkedIn	General public	94	<a href="https://www.linkedin.com/posts/eleukon-3%2Eo_sowhat-demo-sites-activity-6725337116714266624-D5sV">https://www.linkedin.com/posts/eleukon-3%2Eo_sowhat-demo-sites-activity-6725337116714266624-D5sV</a>



Social media post	ELEUKON	General post	October 2020	LinkedIn	General public	94	<a href="https://www.linkedin.com/posts/eleukon-3%2Eo_project-activity-6724952629576769536-Tpmv">https://www.linkedin.com/posts/eleukon-3%2Eo_project-activity-6724952629576769536-Tpmv</a>
Social media post	ELEUKON	General post	October 2020	LinkedIn	General public	94	<a href="https://www.linkedin.com/posts/eleukon-3%2Eo_related-projects-activity-6724318677296021504-cwPg">https://www.linkedin.com/posts/eleukon-3%2Eo_related-projects-activity-6724318677296021504-cwPg</a>
Social media post	ELEUKON	General post	October 2020	LinkedIn	General public	94	<a href="https://www.linkedin.com/posts/eleukon-3%2Eo_project-activity-6723915743877976064-TnCN">https://www.linkedin.com/posts/eleukon-3%2Eo_project-activity-6723915743877976064-TnCN</a>
Social media post	ELEUKON	General post	October 2020	LinkedIn	General public	94	<a href="https://www.linkedin.com/posts/eleukon-3%2Eo_sowhat-demo-sites-activity-6723909657762516992-M4a8">https://www.linkedin.com/posts/eleukon-3%2Eo_sowhat-demo-sites-activity-6723909657762516992-M4a8</a>
Social media post	ELEUKON	General post	October 2020	LinkedIn	General public	94	<a href="https://www.linkedin.com/posts/eleukon-3%2Eo_energy-efficiency-is-connected-activity-6723905082968043520-5U_o">https://www.linkedin.com/posts/eleukon-3%2Eo_energy-efficiency-is-connected-activity-6723905082968043520-5U_o</a>
Social media post	ELEUKON	General post	October 2020	LinkedIn	General public	94	<a href="https://www.linkedin.com/posts/eleukon-3%2Eo_so-what-newsletter-5-activity-6720307489688064000-Gm1x">https://www.linkedin.com/posts/eleukon-3%2Eo_so-what-newsletter-5-activity-6720307489688064000-Gm1x</a>
Social media post	ELEUKON	General post	October 2020	LinkedIn	General public	94	<a href="https://www.linkedin.com/posts/eleukon-3%2Eo_whc-heatwaste-coldwaste-activity-6719534307121078272-l8Hr">https://www.linkedin.com/posts/eleukon-3%2Eo_whc-heatwaste-coldwaste-activity-6719534307121078272-l8Hr</a>
Social media post	ELEUKON	General post	August 2020	LinkedIn	General public	94	<a href="https://www.linkedin.com/posts/eleukon-3%2Eo_two-papers-presented-at-the-rankine-2020-activity-670400408017753408-Epqz">https://www.linkedin.com/posts/eleukon-3%2Eo_two-papers-presented-at-the-rankine-2020-activity-670400408017753408-Epqz</a>
Social media post	ELEUKON	General post	August 2020	LinkedIn	General public	94	<a href="https://www.linkedin.com/posts/eleukon-3%2Eo_sowhat-demo-sites-activity-6704003599371923456-Ly9G">https://www.linkedin.com/posts/eleukon-3%2Eo_sowhat-demo-sites-activity-6704003599371923456-Ly9G</a>
Social media post	ELEUKON	General post	August 2020	LinkedIn	General public	94	<a href="https://www.linkedin.com/posts/eleukon-3%2Eo_2020-eu-web-awards-activity-6704002813124481024-hovX">https://www.linkedin.com/posts/eleukon-3%2Eo_2020-eu-web-awards-activity-6704002813124481024-hovX</a>
Social media post	ELEUKON	General post	June 2020	LinkedIn	General public	94	<a href="https://www.linkedin.com/posts/eleukon-3%2Eo_requirements-for-data-formats-and-indicatorspdf-activity-6678650356500709377-HYRN">https://www.linkedin.com/posts/eleukon-3%2Eo_requirements-for-data-formats-and-indicatorspdf-activity-6678650356500709377-HYRN</a>
Social media post	ELEUKON	General post	June 2020	LinkedIn	General public	94	<a href="https://www.linkedin.com/posts/eleukon-3%2Eo_so-what-partners-activity-6676741572282974208-lL8T">https://www.linkedin.com/posts/eleukon-3%2Eo_so-what-partners-activity-6676741572282974208-lL8T</a>
Social media post	ELEUKON	General post	June 2020	LinkedIn	General public	94	<a href="https://www.linkedin.com/posts/eleukon-3%2Eo_so-what-partners-activity-6670993226503196672-eYgZ">https://www.linkedin.com/posts/eleukon-3%2Eo_so-what-partners-activity-6670993226503196672-eYgZ</a>
Social media post	ELEUKON	General post	May 2020	LinkedIn	General public	94	<a href="https://www.linkedin.com/posts/eleukon-3%2Eo_the-involvement-of-the-so-what-project-partners-activity-6669511607795748864-oM2U">https://www.linkedin.com/posts/eleukon-3%2Eo_the-involvement-of-the-so-what-project-partners-activity-6669511607795748864-oM2U</a>
Social media post	ELEUKON	General post	May 2020	LinkedIn	General public	94	<a href="https://www.linkedin.com/posts/eleukon-3%2Eo_documents-activity-6663730553734471681-jg28">https://www.linkedin.com/posts/eleukon-3%2Eo_documents-activity-6663730553734471681-jg28</a>
Social media post	ELEUKON	General post	May 2020	LinkedIn	General public	94	<a href="https://www.linkedin.com/posts/eleukon-3%2Eo_documents-activity-6661904705163272192-CGIJ">https://www.linkedin.com/posts/eleukon-3%2Eo_documents-activity-6661904705163272192-CGIJ</a>
Social media post	ELEUKON	General post	April 2020	LinkedIn	General public	94	<a href="https://www.linkedin.com/posts/eleukon-3%2Eo_user-requirements-for-the-so-what-tool-activity-6655747664463966208-dtyy">https://www.linkedin.com/posts/eleukon-3%2Eo_user-requirements-for-the-so-what-tool-activity-6655747664463966208-dtyy</a>
Social media post	ELEUKON	General post	March 2020	LinkedIn	General public	94	<a href="https://www.linkedin.com/posts/eleukon-3%2Eo_nick-purshouse-from-ies-ri-explains-the-activity-6648856456059858944-jgHb">https://www.linkedin.com/posts/eleukon-3%2Eo_nick-purshouse-from-ies-ri-explains-the-activity-6648856456059858944-jgHb</a>

Social media post	ELEUKON	General post	January 2020	LinkedIn	General public	94	<a href="https://www.linkedin.com/posts/eleukon-3%2Eo_so-what-project-activity-6622773583431241728--AD5">https://www.linkedin.com/posts/eleukon-3%2Eo_so-what-project-activity-6622773583431241728--AD5</a>
Social media post	ELEUKON	General post	December 2019	LinkedIn	General public	94	<a href="https://www.linkedin.com/posts/eleukon-3%2Eo_consortiumselfie-consortiummeeting-generalassemblymeeting-activity-6610453738631114752-MMND">https://www.linkedin.com/posts/eleukon-3%2Eo_consortiumselfie-consortiummeeting-generalassemblymeeting-activity-6610453738631114752-MMND</a>
Social media post	ELEUKON	General post	November 2019	LinkedIn	General public	94	<a href="https://www.linkedin.com/posts/eleukon-3%2Eo_so-what-visits-ences-demosite-activity-6601446755324301312-Y9xC">https://www.linkedin.com/posts/eleukon-3%2Eo_so-what-visits-ences-demosite-activity-6601446755324301312-Y9xC</a>
Social media post	ELEUKON	General post	2019	LinkedIn	General public	94	<a href="https://www.linkedin.com/posts/eleukon-3%2Eo_kickoff-activity-6542025972781322240-oYCl">https://www.linkedin.com/posts/eleukon-3%2Eo_kickoff-activity-6542025972781322240-oYCl</a>
Social media post	ELEUKON	General post	2019	LinkedIn	General public	94	<a href="https://www.linkedin.com/posts/eleukon-3%2Eo_software-waste-heat-activity-6542024946959429632-p9nq">https://www.linkedin.com/posts/eleukon-3%2Eo_software-waste-heat-activity-6542024946959429632-p9nq</a>
Post on social media	ENVI PARK		June 2020	LinkedIn	General public	2.342	<a href="https://www.linkedin.com/posts/envipronment-park_documents-activity-6674590669568319488--uot">https://www.linkedin.com/posts/envipronment-park_documents-activity-6674590669568319488--uot</a>
Post on social media	ENVI PARK		May 2020	LinkedIn	General public	2.342	<a href="https://www.linkedin.com/posts/envipronment-park_so-what-newsletter-4-activity-6666650224959729664-gMmk">https://www.linkedin.com/posts/envipronment-park_so-what-newsletter-4-activity-6666650224959729664-gMmk</a>
Website blog post	FAEN	News	1-June	web	General public		<a href="http://www.faen.es/primera-reunion-del-proyecto-h2020-so-what/">http://www.faen.es/primera-reunion-del-proyecto-h2020-so-what/</a>
Website blog pos	FAEN	News	31-October	web	General public		<a href="http://www.faen.es/visita-instalaciones-ence/">http://www.faen.es/visita-instalaciones-ence/</a>
Social media	FAEN	Survey	27-November	Twitter	General public	1,635 Followers	<a href="https://twitter.com/FundacionFaen/status/1199632727622004736">https://twitter.com/FundacionFaen/status/1199632727622004736</a>
Website blog pos	FAEN	Website blog pos	December 2019	web	General public		<a href="http://www.faen.es/reunion-proyecto-so-what/">http://www.faen.es/reunion-proyecto-so-what/</a>
Social media	FAEN	Notice	April	WEb	General public		<a href="http://www.faen.es/event/reunion-telematica-sowhat/">http://www.faen.es/event/reunion-telematica-sowhat/</a>
Social media	FAEN	General post	2-July	Linkedin	General public	279	<a href="https://www.linkedin.com/posts/fundacionfaen_project-activity-6684151246724579328-flyP">https://www.linkedin.com/posts/fundacionfaen_project-activity-6684151246724579328-flyP</a>
Social media	FAEN	General post	June 2020	Linkedin	General public	279	<a href="https://www.linkedin.com/posts/fundacionfaen_requirements-for-data-formats-and-indicatorspdf-activity-6678987442919419904-lpaU">https://www.linkedin.com/posts/fundacionfaen_requirements-for-data-formats-and-indicatorspdf-activity-6678987442919419904-lpaU</a>
Social media	FAEN	General post	May 2020	Linkedin	General public	279	<a href="https://www.linkedin.com/posts/fundacionfaen_homepage-activity-6677162317316190209-2uj3">https://www.linkedin.com/posts/fundacionfaen_homepage-activity-6677162317316190209-2uj3</a>
Social media	FAEN	General post	May 2020	Linkedin	General public	279	<a href="https://www.linkedin.com/feed/update/urn%3Ali%3Aactivity%3A6671329217881477120/?actorCompanyId=19183511">https://www.linkedin.com/feed/update/urn%3Ali%3Aactivity%3A6671329217881477120/?actorCompanyId=19183511</a>

Social media	FAEN	General post	May 2020	Linkedin	General public	279	<a href="https://www.linkedin.com/posts/fundacionfaen_the-involvement-of-the-so-what-project-partners-activity-6669213096243957760-mE_e">https://www.linkedin.com/posts/fundacionfaen_the-involvement-of-the-so-what-project-partners-activity-6669213096243957760-mE_e</a>
Social media	FAEN	Survey	December 10, 2019	Twitter	General public	1,635 Followers	<a href="https://twitter.com/FundacionFaen/status/1204319585979293696">https://twitter.com/FundacionFaen/status/1204319585979293696</a>
Social media	FAEN	General post	July 2020	Linkedin	General public	279	<a href="https://www.linkedin.com/posts/fundacionfaen_requirements-for-data-formats-and-indicatorpdf-activity-6678987442919419904-lpaU">https://www.linkedin.com/posts/fundacionfaen_requirements-for-data-formats-and-indicatorpdf-activity-6678987442919419904-lpaU</a>
Social media	FAEN	General post	August 2020	Linkedin	General public	279	<a href="https://www.linkedin.com/posts/fundacionfaen_documents-activity-6691631220377300993-Zsyx">https://www.linkedin.com/posts/fundacionfaen_documents-activity-6691631220377300993-Zsyx</a>
Post on the website	FAEN	General post	November 2019		General public		<a href="http://www.faien.es/event/visita-ence/">http://www.faien.es/event/visita-ence/</a>
Post on the website	FAEN	General post	December 2019		General public		<a href="http://www.faien.es/event/reunion-proyecto-so-what/">http://www.faien.es/event/reunion-proyecto-so-what/</a>
Post on the website	FAEN	General post	April 2020		General public		<a href="http://www.faien.es/event/reunion-telematica-sowhat/">http://www.faien.es/event/reunion-telematica-sowhat/</a>
Social media	FAEN	Newsletter	September 2020	LinkedIn	General public	312	<a href="https://www.linkedin.com/posts/fundacionfaen_so-what-newsletter-5-activity-6706482985350246400-llPo">https://www.linkedin.com/posts/fundacionfaen_so-what-newsletter-5-activity-6706482985350246400-llPo</a>
Social media	FAEN	EU Web awards	August 2020	LinkedIn	General public	312	<a href="https://www.linkedin.com/posts/fundacionfaen_2020-eu-web-awards-activity-669673125402258688-S4V2">https://www.linkedin.com/posts/fundacionfaen_2020-eu-web-awards-activity-669673125402258688-S4V2</a>
Social media	FAEN	Share general post	August 2020	LinkedIn	General public	350	<a href="https://www.linkedin.com/posts/fundacionfaen_whc-heatwaste-coldwaste-activity-6704728375547699200-xtJf">https://www.linkedin.com/posts/fundacionfaen_whc-heatwaste-coldwaste-activity-6704728375547699200-xtJf</a>
Social media	FAEN	Share general post	August 2020	LinkedIn	General public	350	<a href="https://www.linkedin.com/posts/fundacionfaen_sowhat-demo-sites-activity-6701424775685795840-7WFj">https://www.linkedin.com/posts/fundacionfaen_sowhat-demo-sites-activity-6701424775685795840-7WFj</a>
Social media	FAEN	Share general post	August 2020	LinkedIn	General public	350	<a href="https://www.linkedin.com/posts/fundacionfaen_two-papers-presented-at-the-rankine-2020-activity-6699960076674846721-KOok">https://www.linkedin.com/posts/fundacionfaen_two-papers-presented-at-the-rankine-2020-activity-6699960076674846721-KOok</a>
Post on the website	IES			IES Website			<a href="https://www.iesve.com/research/intelligent-communities/so-what">https://www.iesve.com/research/intelligent-communities/so-what</a>
Post on the website	IVL	So What develops tools to	December 2019	IVL website	General audience	7600	<a href="https://www.ivl.se/english/startpage/pages/ongoing-research/research-projects/climate-and-energy/so-what-develops-tools-to-take-advantage-of-unutilized-heat-and-cooling-flows.html">https://www.ivl.se/english/startpage/pages/ongoing-research/research-projects/climate-and-energy/so-what-develops-tools-to-take-advantage-of-unutilized-heat-and-cooling-flows.html</a>

		take advantage of unutilized heat and cooling flows					
Social media post	IVL	General post	July 2020	LinkedIn	General audience	500	<a href="https://www.linkedin.com/posts/nilssonan_spillv%C3%A4rme-i-europa-unik-inblick-i-industriernas-activity-6684083145584840704-pSb8">https://www.linkedin.com/posts/nilssonan_spillv%C3%A4rme-i-europa-unik-inblick-i-industriernas-activity-6684083145584840704-pSb8</a>
Social media post	IVL	General post	July 2020	LinkedIn	General audience	500	<a href="https://www.linkedin.com/posts/nilssonan_energysystemintegrationstrategypdf-activity-6690911154673373184-pCbB">https://www.linkedin.com/posts/nilssonan_energysystemintegrationstrategypdf-activity-6690911154673373184-pCbB</a>
Press release	IVL	Waste heat in Europe – unique insight into the way industries are thinking	July 2020	IVL website	General audience	12,000 (redistributed by 5 industry magazines)	<a href="https://www.ivl.se/english/startpage/top-menu/pressroom/press-releases/press-releases---arkiv/2020-07-02-waste-heat-in-europe---unique-insight-into-the-way-industries-are-thinking.html">https://www.ivl.se/english/startpage/top-menu/pressroom/press-releases/press-releases---arkiv/2020-07-02-waste-heat-in-europe---unique-insight-into-the-way-industries-are-thinking.html</a>
Post on social media	LIPOR (CEO Fernando Leite)	Lipor as demo site	September 2020	LinkedIn	General public	500	<a href="https://www.linkedin.com/posts/fernando-leite-15830812_sowhat-demo-sites-activity-671487972922548224-746f">https://www.linkedin.com/posts/fernando-leite-15830812_sowhat-demo-sites-activity-671487972922548224-746f</a>
Post on social media	LIPOR	Lipor as demo site	September 2020	LinkedIn	General public	7088	<a href="https://www.linkedin.com/posts/liporoficial_sowhat-demo-sites-activity-6711694442497089537-JQXN">https://www.linkedin.com/posts/liporoficial_sowhat-demo-sites-activity-6711694442497089537-JQXN</a>
Post on the website	MEDGREEN						<a href="http://www.medgreen.eu/en/proiecte.php">http://www.medgreen.eu/en/proiecte.php</a>
News	RADET	Ziua Constanta magazine	April 13, 2020	Ziua de Constanta	Local public		<a href="https://www.ziuaconstantia.ro/informatii/radet/are-ca-scop-dezvoltarea-si-validarea-unei-platforme-software-integrate-radet-implementeaza-proiectul-european-sowhat-717133.html">https://www.ziuaconstantia.ro/informatii/radet/are-ca-scop-dezvoltarea-si-validarea-unei-platforme-software-integrate-radet-implementeaza-proiectul-european-sowhat-717133.html</a>

News	RADET	Ziare <a href="#">live magazine</a>	April 13, 2020	Ziare Live	Local public		<a href="https://www.ziarelive.ro/stiri/are-ca-scop-dezvoltarea-si-validarea-unei-platforme-software-integrate-radet-implementeaza-proiectul-european-sowhat.html">https://www.ziarelive.ro/stiri/are-ca-scop-dezvoltarea-si-validarea-unei-platforme-software-integrate-radet-implementeaza-proiectul-european-sowhat.html</a>
Social media	RINA	Kick off	5-June	Twitter	General public	1,560 followers	<a href="https://twitter.com/RINA1861/status/1136249033691938817">https://twitter.com/RINA1861/status/1136249033691938817</a>
Social media	RINA	Project coordinators	5-June	Twitter	General public	1,560 followers	<a href="https://twitter.com/RINA1861/status/1164173418054455298">https://twitter.com/RINA1861/status/1164173418054455298</a>
Case study on website	RINA	Case study		RINA Website	General public	65 views	<a href="https://www.rina.org/en/media/CaseStudies/so-what">https://www.rina.org/en/media/CaseStudies/so-what</a>
Presence at fair	RINA	EUSEW 2019	19-06-2019	Brussels	Research, General public and policy makers	100	
Internal promotion	RINA	Research Symposium	19-07-2019	Milan	Employees	100	
Social media	RINA	Case study	July 9, 2020	Twitter	General public	1750 followers	<a href="https://twitter.com/RINA1861/status/1281585849579307008">https://twitter.com/RINA1861/status/1281585849579307008</a>
News on a paper	RINA	Barriers to data collection	June 2020	Energy Efficiency	Energy stakeholders		
Social media	RINA	Case study	July 9, 2020	Twitter	General public	1750 followers	<a href="https://twitter.com/RINA1861/status/1303318568709361664">https://twitter.com/RINA1861/status/1303318568709361664</a>
Social media	RINA	Case study	September 2020	Twitter	All	1859 followers	<a href="https://twitter.com/RINA1861/status/1303318568709361664">https://twitter.com/RINA1861/status/1303318568709361664</a>
Social media	SIE	First Workshop - design thinking	25-November	Twitter	General public	437 followers	<a href="https://twitter.com/SustainableInnE/status/1198935189679935491">https://twitter.com/SustainableInnE/status/1198935189679935491</a>
Social media	SIE	World Cities Day	31-October	Twitter	General public	437 followers	<a href="https://twitter.com/SustainableInnE/status/1189828593263824904">https://twitter.com/SustainableInnE/status/1189828593263824904</a>
Social media	SIE	Article	10-June	Twitter	General public	437 followers	<a href="https://twitter.com/SustainableInnE/status/1138064062045138944">https://twitter.com/SustainableInnE/status/1138064062045138944</a>



Social media	SIE	Post about exploitation workshop	May 2020	LinkedIn	General public	4300 followers	<a href="https://www.linkedin.com/posts/sustainable-innovations-europe_exploitation-workshop-energyefficiency-activity-6665492660364685313-Rv1w">https://www.linkedin.com/posts/sustainable-innovations-europe_exploitation-workshop-energyefficiency-activity-6665492660364685313-Rv1w</a>
Social media	SIE	Post about exploitation workshop	May 2020	Twitter	General public	526 followers	<a href="https://twitter.com/SustainableInnE/status/1259727655609475073">https://twitter.com/SustainableInnE/status/1259727655609475073</a>
Social media	SIE	Post about M12 meeting	April 2020	Twitter	General public	526 followers	<a href="https://twitter.com/SustainableInnE/status/1251034475238219776">https://twitter.com/SustainableInnE/status/1251034475238219776</a>
Social media	SIE	Post about M12 meeting	April 2020	LinkedIn	General public	4300 followers	<a href="https://www.linkedin.com/posts/sustainable-innovations-europe_covid19-communication-dissemination-activity-6656798921148510208-8sMX">https://www.linkedin.com/posts/sustainable-innovations-europe_covid19-communication-dissemination-activity-6656798921148510208-8sMX</a>
Social media	SIE	Post about CO <sub>2</sub> reduction	June 2020	Twitter	General public	526 followers	<a href="https://twitter.com/SustainableInnE/status/1271022149227118592">https://twitter.com/SustainableInnE/status/1271022149227118592</a>
Social media	SIE	Post about CO <sub>2</sub> reduction	June 2020	LinkedIn	General public	4300 followers	<a href="https://www.linkedin.com/posts/sustainable-innovations-europe_innovation-management-activity-6676786776545210368-FWx1">https://www.linkedin.com/posts/sustainable-innovations-europe_innovation-management-activity-6676786776545210368-FWx1</a>
Social media	SIE	World Energy Efficiency Day	March 5, 2020	Twitter	General public	526 followers	<a href="https://twitter.com/SustainableInnE/status/1235475486941368320">https://twitter.com/SustainableInnE/status/1235475486941368320</a>
Social media	SIE	First meeting in Antwerp	December 2019	Twitter	General public	437 followers	<a href="https://twitter.com/SustainableInnE/status/1204336027114061824">https://twitter.com/SustainableInnE/status/1204336027114061824</a>
Social media	SIE	Day for CO <sub>2</sub> reduction	January 2020	Twitter	General public	437 followers	<a href="https://twitter.com/SustainableInnE/status/1222161987871920129">https://twitter.com/SustainableInnE/status/1222161987871920129</a>
Social media	SIE	Post about SDGs	July 2020	Twitter	General public	534 followers	<a href="https://twitter.com/SustainableInnE/status/1287993777446166530">https://twitter.com/SustainableInnE/status/1287993777446166530</a>
Social media	SIE	World population day	July 2020	Twitter	General public	534 followers	<a href="https://twitter.com/SustainableInnE/status/1281861060664995841">https://twitter.com/SustainableInnE/status/1281861060664995841</a>

Social media	SIE	Post about the team	August 2020	LinkedIn	General public	4300 followers	<a href="https://www.linkedin.com/posts/sustainable-innovations-europe_innovation-consulting-sustainable-innovations-activity-6698839876516757504-gtKw">https://www.linkedin.com/posts/sustainable-innovations-europe_innovation-consulting-sustainable-innovations-activity-6698839876516757504-gtKw</a>
Social media	SIE	Post about the team	August 2020	Twitter	General public	534 followers	<a href="https://twitter.com/SustainableInnE/status/1293074736348631041">https://twitter.com/SustainableInnE/status/1293074736348631041</a>
Social media	UoB (Adriano Sciacovelli)	Survey	26-November	Twitter	General public	107 Followers	<a href="https://twitter.com/Sciacovelli_UoB/status/1199391471952158720">https://twitter.com/Sciacovelli_UoB/status/1199391471952158720</a>
Social media	UoB (Adriano Sciacovelli)	Survey	6-June	Twitter	General public	107 Followers	<a href="https://twitter.com/Sciacovelli_UoB/status/1136678943585656832">https://twitter.com/Sciacovelli_UoB/status/1136678943585656832</a>
Presentati on	UoB (Adriano Sciacovelli)	Presentati on of paper in a conferenc e - Latent Heat And Thermoch emical Storage As Enablers For Waste Heat-to-Power And Heat-Upgrade: A General Approach	30 July 2020	Rankine 2020 Conferenc e	Cooling and heating stakeholders		
Presentati on	UoB (Giovanni Manente)	Presentati on of paper in a conferenc e - Latent Heat And	28 July 2020	Rankine 2020 Conferenc e	Cooling and heating stakeholders		

		Thermoch emical Storage As Enablers For Waste Heat-to- Power And Heat- Upgrade: A General Approach					
Social media	UoB (Adriano Sciacovelli )	Share post	a	July 2020	LinkedIn	General public	403 contacts <a href="https://www.linkedin.com/feed/update/urn%3Ali%3Aactivity%3A6678735811736944640/?actorCompanyId=19183511">https://www.linkedin.com/feed/update/urn%3Ali%3Aactivity%3A6678735811736944640/?actorCompanyId=19183511</a>
Social media	UoB (Adriano Sciacovelli )	Share post	a	July 2020	LinkedIn	General public	403 contacts <a href="https://www.linkedin.com/posts/adriano-sciacovelli-82852b135_programme-activity-6684863685418074112-BJ-p">https://www.linkedin.com/posts/adriano-sciacovelli-82852b135_programme-activity-6684863685418074112-BJ-p</a>
Social media	UoB (Adriano Sciacovelli )	Share post	a	July 2020	Twitter	General public	167 followers <a href="https://twitter.com/Sciacovelli_UoB/status/1281121500188364800">https://twitter.com/Sciacovelli_UoB/status/1281121500188364800</a>
Social media	UoB (Adriano Sciacovelli )	Share post	a	June 2020	LinkedIn	General public	404 connections <a href="https://www.linkedin.com/posts/adriano-sciacovelli-82852b135_so-what-partners-activity-6671066089859887105-bL-b">https://www.linkedin.com/posts/adriano-sciacovelli-82852b135_so-what-partners-activity-6671066089859887105-bL-b</a>
Social media	UoB (Adriano Sciacovelli )	Share post	a	May 2020	LinkedIn	General public	404 connections <a href="https://www.linkedin.com/posts/adriano-sciacovelli-82852b135_exploitation-ipr-exploitation-activity-6664613980448923648-cedR">https://www.linkedin.com/posts/adriano-sciacovelli-82852b135_exploitation-ipr-exploitation-activity-6664613980448923648-cedR</a>
Social media	UoB (Adriano Sciacovelli )	Share post	a	April 2020	LinkedIn	General public	404 connections <a href="https://www.linkedin.com/posts/adriano-sciacovelli-82852b135_whc-energyefficiency-energyrecovery-activity-6656270156437815296-Rndq">https://www.linkedin.com/posts/adriano-sciacovelli-82852b135_whc-energyefficiency-energyrecovery-activity-6656270156437815296-Rndq</a>

Social media	UoB (Adriano Sciacovelli)	Share post	a	April 2020	LinkedIn	General public	404 connections	<a href="https://www.linkedin.com/posts/adriano-sciacovelli-82852b135_whc-recovery-storage-renewable-technologies-activity-6651408101247455234-y1Al">https://www.linkedin.com/posts/adriano-sciacovelli-82852b135_whc-recovery-storage-renewable-technologies-activity-6651408101247455234-y1Al</a>
Social media	UoB (Adriano Sciacovelli)	Share post	a	March 2020	LinkedIn	General public	404 connections	<a href="https://www.linkedin.com/posts/adriano-sciacovelli-82852b135_so-what-newsletter-3-activity-6638428857504534528-YrSE">https://www.linkedin.com/posts/adriano-sciacovelli-82852b135_so-what-newsletter-3-activity-6638428857504534528-YrSE</a>
Social media	UoB (Adriano Sciacovelli)	Share post	a	febrero 2020	LinkedIn	General public	404 connections	<a href="https://www.linkedin.com/posts/adriano-sciacovelli-82852b135_documents-activity-6633263396311699456-GPRj">https://www.linkedin.com/posts/adriano-sciacovelli-82852b135_documents-activity-6633263396311699456-GPRj</a>
Social media	UoB (Adriano Sciacovelli)	Share post	a	January 2020	LinkedIn	General public	404 connections	<a href="https://www.linkedin.com/posts/adriano-sciacovelli-82852b135_so-what-project-activity-6622505367140216833-4RIg">https://www.linkedin.com/posts/adriano-sciacovelli-82852b135_so-what-project-activity-6622505367140216833-4RIg</a>
Social media	UoB (Adriano Sciacovelli)	Share post	a	August 2020	LinkedIn	General public	416 connections	<a href="https://www.linkedin.com/feed/update/urn%3Ali%3Aactivity%3A6684863685418074112/?actorCompanyId=19183511">https://www.linkedin.com/feed/update/urn%3Ali%3Aactivity%3A6684863685418074112/?actorCompanyId=19183511</a>
Social media	UoB (Adriano Sciacovelli)	Share post	a	August 2020	LinkedIn	General public	416 connections	<a href="https://www.linkedin.com/posts/adriano-sciacovelli-82852b135_two-papers-presented-at-the-rankine-2020-activity-6698945190645796864-6OAg">https://www.linkedin.com/posts/adriano-sciacovelli-82852b135_two-papers-presented-at-the-rankine-2020-activity-6698945190645796864-6OAg</a>
Social media	UoB (Adriano Sciacovelli)	Share post	a	August 2020	LinkedIn	General public	416 connections	<a href="https://www.linkedin.com/posts/adriano-sciacovelli-82852b135_two-papers-presented-at-the-rankine-2020-activity-6698945190645796864-6OAg">https://www.linkedin.com/posts/adriano-sciacovelli-82852b135_two-papers-presented-at-the-rankine-2020-activity-6698945190645796864-6OAg</a>
Presentati on	UoB (Adriano Sciacovelli)	Presentati on of paper in a conferenc e		28 October	Sustainabl e Places	Energy efficiency stakeholders	Presentation	<a href="https://sowhatproject.eu/2020/11/06/so-what-at-sustainable-places/">https://sowhatproject.eu/2020/11/06/so-what-at-sustainable-places/</a>
Media publicatio n	SIE	Webinar		4 November	Cordis News	H2020 stakeholders	Press release	<a href="https://cordis.europa.eu/article/id/422661-so-what-emb3rs-incubis-and-s-parcs-to-host-webinar-on-industrial-waste-heat-recovery">https://cordis.europa.eu/article/id/422661-so-what-emb3rs-incubis-and-s-parcs-to-host-webinar-on-industrial-waste-heat-recovery</a>

Media publication	SIE	Webinar	3 November	Buildup	H2020 stakeholders	Press release	<a href="https://www.buildup.eu/sites/default/files/content/press_release_so_what_hosts_webinar_with_related_projects.pdf">https://www.buildup.eu/sites/default/files/content/press_release_so_what_hosts_webinar_with_related_projects.pdf</a>
Media publication	SIE	Webinar	3 November	Alpha Galileo	H2020 stakeholders	Press release	<a href="https://www.alphagalileo.org/en-gb/Item-Display/ItemId/200644?returnurl=https://www.alphagalileo.org/en-gb/Item-Display/ItemId/200644">https://www.alphagalileo.org/en-gb/Item-Display/ItemId/200644?returnurl=https://www.alphagalileo.org/en-gb/Item-Display/ItemId/200644</a>
Blog post	SIE/RINA	Webinar	11 November	EMB3Rs website	H2020 stakeholders	Press release	<a href="https://www.emb3rs.eu/emb3rs-incubis-r-aces-so-what-and-s-parcs-to-host-webinar-on-industrial-waste-heat-recovery/">https://www.emb3rs.eu/emb3rs-incubis-r-aces-so-what-and-s-parcs-to-host-webinar-on-industrial-waste-heat-recovery/</a>
Blog post	SIE/RINA	Webinar	10 November	R-ACES website	H2020 stakeholders	Press release	<a href="https://r-aces.eu/2020/11/10/effective-energy-exchange-in-industrial-clusters-across-europe-duplicate-1-2/">https://r-aces.eu/2020/11/10/effective-energy-exchange-in-industrial-clusters-across-europe-duplicate-1-2/</a>
Blog post	SIE/RINA	Webinar	5 November	S-PARCS website	H2020 stakeholders	Press release	<a href="https://www.sparcs-h2020.eu/joint-webinar-on-energy-cooperation-and-waste-heat-recovery/">https://www.sparcs-h2020.eu/joint-webinar-on-energy-cooperation-and-waste-heat-recovery/</a>
Blog post	SIE/RINA	Webinar	November	Institute for Sustainable Process Technology	H2020 stakeholders	Press release	<a href="https://ispt.eu/events/waste-heat-recovery-and-energy-cooperation-in-european-industries/">https://ispt.eu/events/waste-heat-recovery-and-energy-cooperation-in-european-industries/</a>
Blog post	SIE/RINA	Webinar	November-2020	Eyde Cluster	H2020 stakeholders	Press release	<a href="https://www.eydecluster.com/no/kalender/2020/incubis-webinar/">https://www.eydecluster.com/no/kalender/2020/incubis-webinar/</a>
Blog post	SIE/RINA	Webinar	November-2020	Eyde Cluster	H2020 stakeholders	Press release	<a href="https://www.prosin.no/calendar/incubis-waste-heat-recovery-and-energy-cooperation-in-european-industries/">https://www.prosin.no/calendar/incubis-waste-heat-recovery-and-energy-cooperation-in-european-industries/</a>