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### Editorial

Dear Members of the RHC-ETIP,

We are going through an exciting period! The past months have been exceptionally fruitful for us in our efforts of raising awareness of Renewable Heating and Cooling Technologies.

Our Annual Event was successfully held on 20th June in Brussels, where we were happy to hear that the EC has recognized that Europe won't achieve its GHG goals without a strong contribution of the RHC sector.

The Directorate General for Research and Innovation of the European Commission (DG RTD) highlighted in the event the EC's ambition for Europe to become the world number one in renewable energy. Several initiatives and strategic actions are in line with this ambition, such as the Energy Union and the legislative package of November 2016, which includes RHC topics. Also, the activities of SET Plan Temporary Working Group (TWG) on heating and cooling kicked-off in June.



**EUREC**

**AEBIOM**  
EUROPEAN BIOMASS ASSOCIATION



**Solar Heat Europe**  
ESTP



**EGEC**  
GEOTHERMAL

**ehpa**  
EUROPEAN HEAT PUMP ASSOCIATION

On the following day we saw an impressive overview of innovation across different technologies during our session “Innovation in the Renewable Heating and Cooling sector” organised as part of the official programme of the European Sustainable Energy Week (EUSEW). Although many RHC technologies find themselves already in a mature level, there’s still an important innovation potential that needs to be unlocked.

Despite the increased awareness, RHC industry and markets are still suffering from a lack of dedicated policy initiatives that are able to accelerate innovation and market deployment in the RHC sector. This is why the RHC ETIP wants to ensure that our members are aware of the great chance that RHC has to benefit from the 2018-2020 Energy work programme of the Horizon 2020 Programme. In this respect, we are happy to partner with the Deep Geothermal (DG) ETIP and the DHC+ Technology Platform for the organisation of a brokerage event focused on the upcoming Horizon 2020 Energy Work programme 2018-2020.

The event will take place on 16 November in Brussels at the Ateliers des Tanneurs and will foster cross-sectorial cooperation between the different technologies under the scope of the Platform. The event will be a unique opportunity to get to know all relevant information on the upcoming calls as well as to meet valuable partners from different technology sectors to exchange experiences and potentially create successful consortia.

A Plenary Session will take place in the morning with representatives from the European Commission and Executive Agencies. In the afternoon the participants will attend parallel sessions according to their topic preferences.

We are looking forward to seeing you in Brussels at the occasion of this exciting event. The other specific updates from each Technology Panel of the RHC-ETIP are available in the next pages of this newsletter, which I hope you enjoy reading.

Yours sincerely,



Paola Maccucchelli  
Coordinator of the Secretariat of the European  
Technology and Innovation Platform on  
Renewable Heating & Cooling

## Status of SET-Plan Temporary Working Groups (TWGs)

The main objectives of TWGs is to align research priorities at national level. EU funds will top up in case there is a supra-national added value. The existence of an ERA-NET co-fund, as in the case of geothermal, is useful in ensuring that national funds are available for the identified priority projects.

RHC-ETIP is being involved in the following SET-Plan Temporary Working Groups:

- **TWG5 - Energy efficiency in buildings.** One of the two sub-actions focus on heating and cooling technologies. The kick-off meeting was organised on 26th June 2017 in Brussels. The following representatives per panel and expertise have been selected (DHC+ and EHPA have been invited separately, and will represent, respectively, district heating and cooling technologies, and the Heat Pump panel):
  - Javier Urchueguia for the geothermal panel (Philippe and Burkhard as replacements)
  - Øyvind Skreiberg for the biomass panel (Walter, Rainer, and Prakriti as replacements)
  - Bernd Hafner for the solar thermal panel (Pedro, Daniel, and Werner as replacements)
  - Wim van Helden as expert on thermal energy storage technologies

Javier has kindly offered to coordinate the work of RHC-ETIP on the TWG5. Paola will circulate relevant documents before the meeting. Each selected expert is requested to register directly with the Commission. Also, webinar was organized 20th September

- **TWG4 - Energy systems.** Gerhard represents the RHC-ETIP in the sub-action dedicated to local and regional energy systems. A meeting took place on 20th June, and Ingo Wagner from DHC+ joined also on behalf of RHC-ETIP. Ugo Simeoni from ETN will also follow the work of this TWG on behalf of the biomass panel. EGEC is also represented directly in this TWG.
- **TWG3 - Smart Cities and Communities.** Gerhard represents the RHC-ETIP in this TWG. A meeting was organised on 13<sup>th</sup> June 2017, where Gerhard could not attend at the last minute. Another meeting was organized in Brussels on 26<sup>th</sup> September.

Technology panels are also represented individually in other TWGs:

- **TWG8 - Renewable fuels and bioenergy.** The kick-off meeting will be held on 16<sup>th</sup> November. The Biomass panel will be sending a representative to the meeting.
- **TWG on deep geothermal.** EGEC is involved in this TWG, as industry association, and on behalf of the ETIP on deep geothermal
- **TWG6 - Energy efficiency for industry.** RHC-ETIP is not directly represented in this TWG, but is regularly kept informed by EGEC. Amongst the list of activities, two could be of interest for the RHC-ETIP:
  - Poly-generation hybrid plants
  - Non-conventional energy sources

The work of these TWGs is important, since it is going to define priority projects to be funded at national level.

RHC-ETIP is going to play an active role there, and its members will be regularly informed. More detailed information can be found on this website: <https://setis.ec.europa.eu/actions-towards-implementing-integrated-set-plan>

## RHC sector still requires dedicated policies in order to accelerate innovation in the EU

The Annual Event “Innovation in the Renewable Heating and Cooling sector” of the European Technology and Innovation Platform on Renewable Heating and Cooling (RHC-ETIP) was successfully held on 20<sup>th</sup> June in Brussels, Belgium.

Over 50 experts attended the event at CENELEC with the aim to discuss the conditions to increase innovation in the renewable heating and cooling (RHC) sector in the European Union as well as the role of RHC technologies in the Strategic Energy Technology (SET) Plan of the European Commission (EC).

“We are happy that both the EC and national governments have recognized that Europe won’t achieve its GHG goals without a strong contribution of the RHC sector. Only holistic solutions with a strong contribution of all energy sectors will allow the goals to be achieved”, said Mr Gerhard Stryi-Hipp, President of the RHC-ETIP. “However, despite the increased awareness, RHC industry and markets are still suffering from a lack of dedicated policy initiatives that are able to accelerate innovation and market deployment in the RHC sector”, he continued.

The Directorate General for Research and Innovation of the European Commission (DG RTD), represented in the event by Mr Piotr Tulej and Mr Piero de Bonis, highlighted the EC’s ambition for Europe to become the world number one in renewable energy. Several initiatives and strategic actions are in line with this ambition, such as the Energy Union and the legislative package of November 2016, which includes RHC topics. Also, the EC mentioned that the activities of SET Plan Temporary Working Group (TWG) on heating and cooling will kick-off next week and announced, that RHC has a great chance to benefit from the 2018-2020 Energy work programme of the Horizon 2020 Programme.

“It’s great news that our impressions on the Horizon 2020 Programme have been heard”, said Ms Paola Mazzucchelli, Coordinator of RHC-ETIP Secretariat. “In the design of the current programme the level playing field for the RHC sector is missing. We are looking forward to seeing how a fair competition between the different technologies is established”, she continued.

The event had also a panel discussion composed by DG RTD and representatives from the five technology panels of the RHC-ETIP (Biomass, Solar Thermal, Geothermal, Heat Pumps and Cross-cutting), which focused on the main conditions to increase innovation in the different technologies of the RHC-sector.

## Innovation in the Renewable Heating and Cooling sector fills up entire conference room at the EUSEW

The session “Innovation in the Renewable Heating and Cooling sector” organised by the European Technology and Innovation Platform on Renewable Heating and Cooling (RHC-ETIP) as part of the official programme of the European Sustainable Energy Week (EUSEW) 2017 was successfully held on 21st June 2017 in Brussels, Belgium.



Over 50 participants completely filled up the Maelbeek room at the Résidence Palace Building. The programme intended to showcase successful stories of innovation in the renewable heating and cooling (RHC) currently in progress.

“We have heard an impressive overview of innovation across different technologies”, said Ms Paola Mazzucchelli, Coordinator of the RHC-ETIP Secretariat, who acted as moderator of the event. “Although many RHC

technologies find themselves already in a mature level, there’s still an important innovation potential which needs to be unlocked”, she continued.

Six innovative projects in the area of RHC were presented. The agenda was carefully selected after a call for innovative projects was launched earlier this year. The relevant Steering Committees of the RHC-ETIP selected the winning projects per technology categories based on the information provided in the application form. The selected projects were:

- Torplant – Pilot scale torrefaction of local biomass residues
- CoolHeating – Market uptake of small modular renewable district heating and cooling grids for communities
- Deep High Temperature Heat Storage in the Geneva Basin
- TripleAqua - Heating, cooling and storage in one
- HRE4 – Heat Roadmap Europe4
- SDHp2m – Solar District Heating and actions from policy to market
- Cold thermal energy storage with vacuum ice slurry

After the presentation, Mr Gerhard Stryi-Hipp, President of the RHC-ETIP made some concluding remarks and thanked the participants and speakers for attending the event.

For more information on each project, please check the [session page here](#).

## Register now to the RHC-ETIP, DG ETIP and DHC+ brokerage event on the H2020 Energy Work Programme 2018-2020

The European Technology and Innovation Platforms on Renewable Heating & Cooling (RHC-ETIP), Deep Geothermal (DG ETIP) and the DHC+ Technology Platform are happy to announce the organisation of a brokerage event focused on the upcoming Horizon 2020 Energy Work programme 2018-2020.

The event will take place on 16 November in Brussels and will foster cross-sectorial cooperation between the different technologies under the scope of the platforms. The collaboration across different sectors has been highlighted several times by the European Commission as one of the main priorities of the next Energy Work Programme. Therefore, meeting partners from other sectors will be a crucial step in order to be successful with the upcoming calls.

The event will be an unique opportunity to get to know all relevant information on the upcoming calls as well as to meet valuable partners from different technology sectors to exchange experiences and potentially create successful consortia.

A Plenary Session will take place in the morning with representatives from the European Commission and Executive Agencies.

In the afternoon the participants will attend parallel sessions according to their preferences.

The detailed agenda will be available shortly.

### **Venue**

The event will take place at the Ateliers des Tanneurs:

Rue des Tanneurs, 58-62

1000 Bruxelles

[www.ateliersdestanneurs.be](http://www.ateliersdestanneurs.be)

Directions to the event venue and suggestions of accommodation are [available here](#).

### **Registration**

Registration fee: 121 EUR (100+VAT 21%).

Deadline: 3rd November 2017

Please use [the online registration form](#) to register to the event taking place on 16th November in Brussels.

After submitting the form, you will receive an email with further instructions for finalising the payment.

Please note that your registration is only confirmed once we receive the full payment of your registration fee: 121 EUR (100EUR +VAT 21%).

You will receive a confirmation email stating the status of your registration.



## News from the Solar Thermal Technology Panel

The ESTTP (European Solar Thermal Technology Panel) of the RHC-ETIP met on June 20th, on the framework of the RHC-ETIP Annual Conference.

During this meeting, the Steering Committee members and some invited guests provided their feedback on the annual event and on the messages put forward, in particular by the European Commission.

The group has also addressed the situation regarding the support to solar thermal projects within Horizon 2020. In this regard, the experts present at the event identified some sticking points, namely the limited number of Horizon 2020 solar thermal projects financed in last calls and the continuation of competitive calls between different technologies, encompassing both those for power or heat generation.

Taking also these aspects into account, the ESTTP Steering Committee kicked off a reflection on the strategy to adopt for ESTTP and for the RHC-ETIP. In this context, the importance of establishing stronger cooperation between the diverse RHC-ETIP panels was stressed to enhance a system approach rather than a merely technology-based one.

The relevance and contribution from ESTTP and sector's experts to a White Paper on Solar Heating and Cooling was also addressed, as well as the follow-up of the ESTTP position paper on the Solar Heating and Cooling Roadmap and the H2020 work program for 2018-2020. Furthermore, discussions were also focusing on the SET Plan and the Temporary Working Group (TWG) addressing Heating and Cooling.

For the coming months, the ESTTP Steering Committee will focus on refining the ESTTP goals. This will include the work on a strategic plan. The ESTTP will also continue monitoring research & innovation initiatives affecting the solar thermal sector in Europe and will broaden that analysis to other regions of the globe.

Even if these discussions are led by the ESTTP Steering Committee, other members of the Panel are invited to participate and provide their contribution. The ESTTP Steering Committee will also look into ways to engage further its members.

For more information on this article and the ESTTP activities, please contact Solar Heat Europe/ESTIF at [info@solarheateurope.eu](mailto:info@solarheateurope.eu).



## News from the Biomass Technology Panel

At the annual meeting of the biomass steering committee organized at CENELEC the 20th of June, upcoming activities for the year 2017 were discussed.

- Improving the biomass panel communication

It is planned to build a reader friendly summary report (strategy document for H&C) on recent advances in biomass heating and cooling will be redacted. This will be based on the desk research and the inputs gathered from the different projects conducted for the update of the D 1.2 of the tender.



## News from the Geothermal Technology Panel

The latest Geothermal Technology Workshop successfully took place on 20th June 2017, in Brussels, Belgium, in the framework of the Annual RHC Conference.

The meeting discussed the opportunities offered by the current H2020 open calls, how to foster network and exchange between potential project partners, and feedback from ongoing Geothermal R&D projects in the shallow geothermal sector: GeoTech; Cheap-GSHPs; GEOCOND; GEOTABS; TESSe2b; Brugeo; Greta; COST-Action GABI; ITER Project (Improving Thermal Efficiency of horizontal ground heat exchangers); GeoPLASMA-CE. Overall, the event recognised how the Geothermal Working Group has consolidated in an efficient, focused, and consistent group with a clear objective.



An important point has been the discussion of opportunities for coordination of future activities with the recently founded Deep Geothermal ETIP, which just recently set up its own Secretariat, jointly managed by EGEN, CNR (Italy), and VITO (Belgium). The Deep Geothermal ETIP is currently working on the drafting of a new Vision document for Deep Geothermal, heating included, to be published in the upcoming months. A new website with more information about the Deep Geothermal ETIP will also soon be available; in the meanwhile, you can follow its activities at <http://www.geoelec.eu/etip-dg/>.

A trimestral newsletter on different work conducted by the SC panel members on influencing EU research policies (H2020, SET plan temporary working groups will be sent to all the 300 panel members.

- Attracting different stakeholders for the panel

To stimulate other stakeholders' interest to join the, the following strategies will be implemented:

1. Increasing industry's interest for biomass  
The upcoming RHC brokerage event which will be organized in November 16th on the H2020 work program will be a good opportunity to attract the interest of industry. We will widely communicate this event to industry members.

2. Collaboration with other ETIPs:

- a. ETIP-bioenergy collaboration SC member Eija Alakangas will be attending the meetings and will be reporting to all the panel members.
- b. ETIP-SNET collaboration Ugo Simeoni has proposed to provide support to the chair Gerhard Stry-Hipp.
- c. IEA bioenergy task 32 IEA bioenergy task 32 is going to publish an update of report on heating and cooling technologies. An exchange of information between the panel and IEA bioenergy is foreseen.

- Set plan activities

On June 26th, a temporary working group on Energy efficiency in buildings was held. This issue group was focused on two actions (New technologies and materials for buildings; Heating and cooling technologies for buildings). Ugo Simeoni from European Turbine Network (ETN) attended the meeting to represent the biomass panel.



Geothermal energy was also well represented during the session “Innovation in the Renewable Heating and Cooling sector”, organised by the RHC-ETIP as part of the official programme of the European Sustainable Energy Week (EUSEW) 2017 on 21st June. Among the six innovative projects presented, Luca Guglielmetti, University of Geneva, presented the Underground Thermal Energy Storage (UTES) pilot project that is being carried out in the Geneva Basin. The project is an important milestone for the geothermal development in Geneva. In May, with the approval of the 2050 Swiss Energy Strategy, the country decided to phase out nuclear, reduce energy consumption and increase renewables, including geothermal.



### News from the Cross-cutting Technology Panel

Wolfram Sparber, who has been chairing the Cross-Cutting Panel since its inception in 2011, has decided to step down. All members of the RHC-Cross-Cutting Panel thank him for the outstanding work he did over the years to lead the Panel, and ensure high quality input to the strategic documents of the RHC-ETIP.

A call for candidatures to select a new Chair was launched in July. Alessandro Provaggi, Head of the DHC+ Technology Platform was elected as Chair of the CCP for the period October 2017 to June 2018.

One of the first tasks of the newly elected Chair will be to lead the strategic discussion to review to the role of the Cross-Cutting Panel within the RHC-ETIP.



### News from the Heat Pump Technology Panel

The next heat pump panel meeting will take place in Brussels after the publication of the H2020 programme. The agenda will be developed around three main topics: the new Horizon 2020 programme, implementation plan of the Action 5 of the SET Plan and Decarbheat initiative.

The panel will analyse which are the most promising H2020 call for proposals by looking at the potential of heat pump deployment and for component's improvement. The Panel will then look and strategize on the next steps on the implementation plan of SET Plan Action 5 (that will be published in November this year).

Finally, it is planned to start working on a list of research and funding recommendations, which will be presented and discussed in the framework of the Decarbheat initiative.

More information and the agenda of the meeting will be communicated in early October.