



Project Title:

**Innovative compact HYbrid electrical/thermal storage systems  
for low energy BUILDings**

Project Acronym:

**HYBUILD**

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**Collaborative Project**

## Deliverable Report

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Deliverable title:

## Report on Dissemination Activities

<b>Related task:</b>	7.2
<b>Lead beneficiary:</b>	R2M
<b>Authors and institutions:</b>	R2M – Régis Decorme, Cécile Barrere
<b>Due date:</b>	M54 – 31 March 2022

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## Publishable executive summary

HYBUILD dissemination activities contributed to demonstrate that hybrid energy storage solutions are a key component in providing flexibility and supporting renewable energy integration in the energy system and can efficiently contribute to the decarbonisation of buildings.

During the 54 months of the project, HYBUILD project partners published a total of 21 journal papers and 17 conference papers. They also organized and/or contributed to 15 dissemination workshops; several of them were run in cooperation with other R&D projects addressing similar research topics. These numbers exceed by far the dissemination targets established in the initial dissemination plan: this demonstrates a very high commitment of the project partners to disseminate the outcomes of the project.

Scientific papers and event reports are presented in the [HYBUILD project website](#) on the dedicated [“Scientific articles” page](#) as well as through short articles on the [“News” page](#). Open Access publications are also available in the [OpenAire platform](#), linked to the HYBUILD project.

## 1 Introduction

### Aims and objectives

This deliverable presents a summary of **dissemination activities** conducted along the 54 months of the HYBUILD project. It highlights the **journal papers**, **conference papers**, and **workshops** organized during the project. For most of these dissemination actions, an event report was completed by its corresponding lead partner, and its content was translated by R2M into an article on the [News page of the HYBUILD project website](#), further promoted on social media. Corresponding links to these articles are included in the summary tables which are presented in the next chapters.

### Relations to other activities in the project

The overall Dissemination and Exploitation plan was presented in [D7.1 - Dissemination and Exploitation plan](#). Dissemination activities presented in this report have been implemented according to this plan. Targets established in the initial plan in relation with the above elements have been by far exceeded (it was initially targeted to publish a total of 4 conference papers, 3 journal papers, and to organize 4 dissemination workshops). A complementary deliverable - D8.5 - presents Communication activities: it includes a summary of participation to events with **Posters**, **Exhibitions**, and **oral presentations in events**.

### Report structure

Chapter 2 presents a summary of the journal papers. Chapter 3 presents a summary of the conference papers. Chapter 4 presents a summary of the dissemination workshops. The appendix includes event reports for selected events presented in the previous chapters.

### Contributions of partners

R2M as WP7 leader is the main editor of this report: R2M ensured the overall planning, support and follow-up of dissemination activities, also making sure that the validation process prior to each publication was respected. All partners contributed to dissemination activities, completed event reports and/or provided content to R2M for post-event promotion on the HYBUILD website.

## 2 Journal papers

A total of **21 journal papers** were submitted by the consortium. At the time of writing this report, 20 of them have already been published. A specific effort was made to ensure that every paper is visible and properly linked to the HYBUILD project on the [OpenAire platform](#). Also, a blog article was published on the HYBUILD project website for each paper with its executive summary; and this was further promoted through a post on the HYBUILD Twitter channel and by project partners through their own channels. All journal papers are also accessible from the dedicated [Scientific Articles page](#) of the HYBUILD project website (Figure 1).

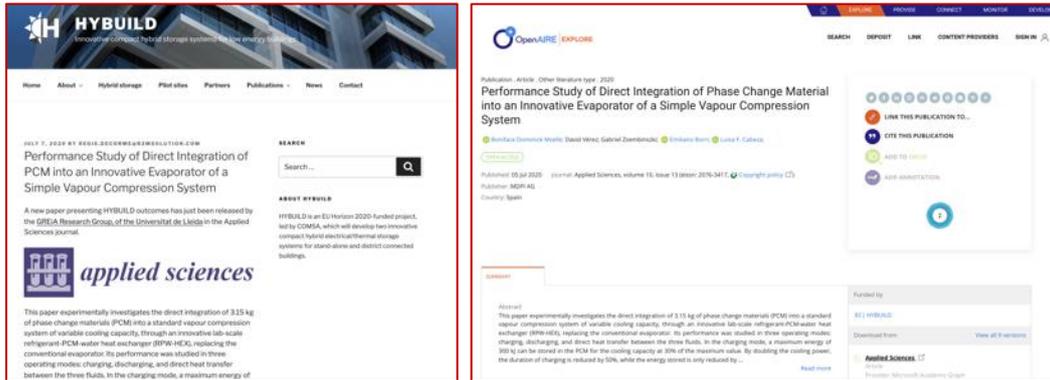


Figure 1. Example of a HYBUILD journal paper visible on the HYBUILD website (left) and on OpenAire (right)

Table 1 provides a summary of all published journal papers, together with links to access their executive summary and full version.

Table 1. List of all published journal papers

#	Authors, Title of the publication, Journal and DOI number	Link to article on HYBUILD project website	Link on OpenAire
1	V. Palomba, E. Varvagiannis, S. Karellas, A. Frazzica, <b>Hybrid Adsorption-Compression Systems for Air Conditioning in Efficient Buildings: Design through Validated Dynamic Models</b> . Energies. 12 (2019), doi:10.3390/en12061161.	<a href="#">Link</a>	<a href="#">Link</a>
2	T. Barz, J. Emhofer, K. Marx, G. Zsembinski, L. F. Cabeza, <b>Phenomenological modelling of phase transitions with hysteresis in solid/liquid PCM</b> (2019), Journal of Building Performance Simulation, 12:6, 770-788 doi:10.1080/19401493.2019.1657953.	<a href="#">Link</a>	<a href="#">Link</a>
3	Efstratios Varvagiannis, Antonios Charalampidis, Gabriel Zsembinski, Sotirios Karellas, Luisa F. Cabeza, <b>Energy assessment based on semi-dynamic modelling of a photovoltaic driven vapour compression chiller using phase change materials for cold energy storage</b> (2020), Renewable Energy, Volume 163, 2021, Pages 198-212, ISSN 0960-1481, doi:10.1016/j.renene.2020.08.034.	<a href="#">Link</a>	<a href="#">Link</a>
4	Valeria Palomba, Andrea Frazzica, <b>Experimental study of a fin-and-tube heat exchanger working as evaporator in subatmospheric conditions</b> . Applied Thermal Engineering. 175 (2020), doi:10.1016/j.applthermaleng.2020.115336.	<a href="#">Link</a>	<a href="#">Link</a>
5	Palomba, V. & Lombardo, W. & Große, A. & Herrmann, R. & Nitsch, B. & Strehlow, A. & Bastian, R. & Sapienza, A. & Frazzica, A., <b>Evaluation of in-situ coated porous structures for hybrid heat pumps</b> . Energy. 209 (2020), doi:10.1016/j.energy.2020.118313.	<a href="#">Link</a>	<a href="#">Link</a>
6	Boniface Dominick Mselle, David Vérez, Gabriel Zsembinski, Emiliano Borri, Luisa F. Cabeza, <b>Performance Study of Direct Integration of Phase Change Material into an Innovative Evaporator of a Simple Vapour Compression System</b> . Applied Sciences. 10 (2020), doi:10.3390/app10134649.	<a href="#">Link</a>	<a href="#">Link</a>

7	Tilman Barz, Johannes Krämer, Johann Emhofer, <b>Identification of Phase Fraction–Temperature Curves from Heat Capacity Data for Numerical Modeling of Heat Transfer in Commercial Paraffin Waxes.</b> <i>Energies</i> . 13 (2020), doi:10.3390/en13195149.	<a href="#">Link</a>	<a href="#">Link</a>
8	Zsembinszki, Gabriel, Christian Orozco, Jaume Gasia, Tilman Barz, Johann Emhofer, and Luisa F. Cabeza, <b>Evaluation of the State of Charge of a Solid/Liquid Phase Change Material in a Thermal Energy Storage Tank.</b> <i>Energies</i> . 13 (2020), doi:10.3390/en13061425.	<a href="#">Link</a>	<a href="#">Link</a>
9	Gabriel Zsembinszki, Angel G. Fernández, Luisa F. Cabeza, <b>Selection of the Appropriate Phase Change Material for Two Innovative Compact Energy Storage Systems in Residential Buildings.</b> <i>Applied Sciences</i> . 10 (2020), doi:10.3390/app10062116.	<a href="#">Link</a>	<a href="#">Link</a>
10	Tilman Barz, Johann Emhofer, <b>Paraffins as phase change material in a compact plate-fin heat exchanger - Part I: Experimental analysis and modeling of complete phase transitions.</b> <i>Journal of Energy Storage</i> . 33 (2020), doi:10.1016/j.est.2020.102128.	<a href="#">Link</a>	<a href="#">Link</a>
11	Tilman Barz, <b>Paraffins as phase change material in a compact plate-fin heat exchanger - Part II: Validation of the “curve scale” hysteresis model for incomplete phase transitions.</b> <i>Journal of Energy Storage</i> . 34 (2020), doi:10.1016/j.est.2020.102164.	<a href="#">Link</a>	<a href="#">Link</a>
12	Emhofer, Johann, Klemens Marx, Tilman Barz, Felix Hochwallner, Luisa F. Cabeza, Gabriel Zsembinszki, Andreas Strehlow, Birgo Nitsch, Michael Wiesflecker, and Werner Pink, <b>Techno-Economic Analysis of a Heat Pump Cycle Including a Three-Media Refrigerant/Phase Change Material/Water Heat Exchanger in the Hot Superheated Section for Efficient Domestic Hot Water Generation.</b> <i>Applied Sciences</i> . 10 (2020), doi:10.3390/app10217873.	<a href="#">Link</a>	<a href="#">Link</a>
13	Gabriel Zsembinszki, Cèsar Fernández, David Vérez, Luisa F. Cabeza, <b>Deep learning optimal control for a complex hybrid energy storage system</b> (2021), <i>Buildings</i> , 11, 194 , doi:10.3390/buildings11050194.	<a href="#">Link</a>	<a href="#">Link</a>
14	Palomba, Valeria, Antonino Bonanno, Giovanni Brunaccini, Davide Aloisio, Francesco Sergi, Giuseppe E. Dino, Efstratios Varvaggiannis, Sotirios Karellas, Birgo Nitsch, Andreas Strehlow, André Große, Ralph Herrmann, Nikolaos Barmparitsas, Nelson Koch, David Vérez, Luisa F. Cabeza, Gabriel Zsembinszki, and Andrea Frazzica. 2021. <b>Hybrid Cascade Heat Pump and Thermal-Electric Energy Storage System for Residential Buildings: Experimental Testing and Performance Analysis</b> <i>Energies</i> 14, no. 9: 2580. <a href="https://doi.org/10.3390/en14092580">https://doi.org/10.3390/en14092580</a>	<a href="#">Link</a>	<a href="#">Link</a>
15	Emhofer, Johann & Marx, Klemens & Sporr, Andreas & Barz, Tilman & Nitsch, Birgo & Wiesflecker, Michael & Pink, Werner, <b>Experimental demonstration of an air-source heat pump application using an integrated phase change material</b>	<a href="#">Link</a>	<a href="#">Link</a>

	<b>storage as a desuperheater for domestic hot water generation.</b> Applied Energy. 305 (2021), doi:10.1016/j.apenergy.2021.117890.		
16	Llantoy, Noelia, Gabriel Zsembinski, Valeria Palomba, Andrea Frazzica, Mattia Dallapiccola, Federico Trentin, and Luisa F. Cabeza, <b>Life Cycle Assessment of an Innovative Hybrid Energy Storage System for Residential Buildings in Continental Climates.</b> Applied Sciences. 11 (2021), doi:10.3390/app11093820.	<a href="#">Link</a>	<a href="#">Link</a>
17	Zsembinski, Gabriel, Noelia Llantoy, Valeria Palomba, Andrea Frazzica, Mattia Dallapiccola, Federico Trentin, and Luisa F. Cabeza., <b>Life Cycle Assessment (LCA) of an Innovative Compact Hybrid Electrical-Thermal Storage System for Residential Buildings in Mediterranean Climate</b> (2021), Sustainability 13, no. 9: 5322, doi:10.3390/su13095322.	<a href="#">Link</a>	<a href="#">Link</a>
18	ANDREA FRAZZICA, Valeria Palomba, <b>A Fast-Reduced Model for an Innovative Latent Thermal Energy Storage for Direct Integration in Heat Pumps.</b> Applied Sciences. 11 (2021), doi:10.3390/app11198972.	<a href="#">Link</a>	<a href="#">Link</a>
19	Zsembinski, Gabriel, Boniface D. Mselle, David Vérez, Emiliano Borri, Andreas Strehlow, Birgo Nitsch, Andrea Frazzica, Valeria Palomba, and Luisa F. Cabeza. 2021. <b>A New Methodological Approach for the Evaluation of Scaling Up a Latent Storage Module for Integration in Heat Pumps</b> Energies 14, no. 22: 7470. <a href="https://doi.org/10.3390/en14227470">https://doi.org/10.3390/en14227470</a>	<a href="#">Link</a>	<a href="#">Link</a>
20	del Arco, Isabel, Anabel Ramos-Pla, Gabriel Zsembinski, Alvaro de Gracia, and Luisa F. Cabeza. 2021. <b>Implementing SDGs to a Sustainable Rural Village Development from Community Empowerment: Linking Energy, Education, Innovation, and Research</b> Sustainability 13, no. 23: 12946. <a href="https://doi.org/10.3390/su132312946">https://doi.org/10.3390/su132312946</a>	<a href="#">Link</a>	N.A. at the time of submitting this report.
21	Boniface Dominick Mselle, Gabriel Zsembinski, David Veréz, Emiliano Borri, Andreas Strehlow, Birgo Nitsch, and Luisa F. Cabeza <b>Experimental assessment of the influence of the design on the performance of novel evaporators with latent energy storage ability,</b> Applied Sciences	N.A. at the time of submitting this report.	N.A. at the time of submitting this report.

### 3 Conference papers

A total of **17 conference papers** were submitted by the consortium. Similarly to journal papers presented in the previous section, a specific effort was made to ensure that every paper is visible and properly linked to the HYBUILD project on the [OpenAire platform](#). Also, a blog article was published on the HYBUILD project website for each paper with its executive summary; and this was further promoted through a post on the HYBUILD Twitter channel. All conference papers are also accessible from the dedicated [Scientific Articles page](#) of the HYBUILD project website (Figure 2).

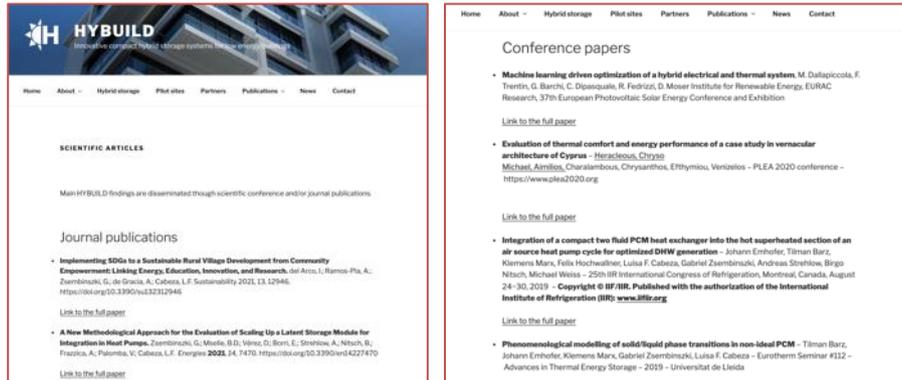


Figure 2. Scientific articles dedicated page on the HYBUILD project website

Table 2 provides a summary of all published conference papers, together with links to access their executive summary and full version.

Table 2. List of all published conference papers

#	Conference	Title of the publication and authors	Link to article on HYBUILD project website	Link on OpenAire
1	Eurosun 2018, 10-13 Sept. 2018, Rapperswil, Switzerland	<b>Dynamic Modelling of a Hybrid Solar Thermal/Electric Storage System for Application in Residential Buildings</b> Frazzica, A.; Barz, T.; Cabeza, L.F.; Emhofer, J.; Ferraro, M.; Karellas, S.; Orò, E.; Palomba, V.; Sergi, F.; Varvagiannis, S.; Zsembinszki, G.	<a href="#">Link</a>	<a href="#">Link</a>
2	CATE conference 2019 – Comfort at the Extremes: Energy, Economy and Climate - 10-11 April 2019	<b>Development of an innovative compact hybrid electrical-thermal storage system for historic building integrated applications in the Mediterranean climate</b> Heracleous, C.; Charalambous, C.; Michael, A.; Yiannaka, A.; Efthymiou, V.; Heracleous, C.; Charalambous, C.; Michael, A.; Yiannaka, A.; Efthymiou, V.	<a href="#">Link</a>	<a href="#">Link</a>
3	Eurotherm Seminar #112 – Advances in thermal energy storage, 15-17 May 2019, Lleida, Spain	<b>Phenomenological modelling of solid/liquid phase transitions in non-ideal PCM</b> Barz, T.; Emhofer, J.; Marx, K.; Zsembinszki, G.; Cabeza, L.F.	<a href="#">Link</a>	<a href="#">Link</a>
4	Eurotherm Seminar #112 – Advances in thermal energy storage, 15-17 May 2019, Lleida, Spain	<b>Heat transfer and dynamics characterization of porous structures for high-density adsorption storages</b> Palomba, V.; Costa, F.; Frazzica, A.; Grosse, A.; Hermann, R.	<a href="#">Link</a>	<a href="#">Link</a>
5	CNIT 2019 (XI National and II International Engineering	<b>Phase change material selection for two innovative compact energy storage systems in residential buildings</b>	<a href="#">Link</a>	<a href="#">Link</a>

	Thermodynamics Congress), 12-14 June 2019, Albacete, Spain	Zsembinszki, G.; Gasia, J.; Oró Prim, E.; Cabeza, L.F.		
6	ICR 2019 - The 25th IIR International Congress of Refrigeration Montreal, Canada	<b>Integration of a compact two fluid PCM heat exchanger into the hot superheated section of an air source heat pump cycle for optimized DHW generation</b> Emhofer, J.; Barz, Tilman; M., Klemens; Hochwallner, F.; Cabeza, L.F.; Zsembinszki, G.; Strehlow, A.; Nitsch, B.; Weiss, M.	<a href="#">Link</a>	<a href="#">Link</a>
7	<a href="#">IMPRES 2019</a> , Japan	<b>Evaluation of in-situ coated foam structures for adsorption heat storage and heat pumping</b> Palomba, V.; Große, A., Herrmann, R., Nitsch, B.; Strehlow, A.; Bastian, R.; Sapienza, A.; Lombardo, W.; Frazzica, A.	<a href="#">Link</a>	N.A.
8	IEA Heat Pump Conference 2021	<b>Dynamic performance tests of a heat pump cycle integrated latent heat thermal energy storage for optimized DHW generation</b> Marx, K.; Emhofer, J.; Barz, T.; Krämer, J.; Cabeza, L.F.; Zsembinszki, G.; Strehlow, A.; Nitsch, B.; Wiesflecker, M.; Zitzenbacher, R.; Weiss, M.	N.A.	N.A.
9	35th PLEA CONFERENCE SUSTAINABLE ARCHITECTURE AND URBAN DESIGN Planning Post Carbon Cities	<b>Evaluation of thermal comfort and energy performance of a case study in vernacular architecture of Cyprus</b> Heracleous, C.; Michael, A.; Charalambous, C.; Efthymiou, V.; Heracleous, C.; Michael, A.; Charalambous, C.; Efthymiou, V.	<a href="#">Link</a>	<a href="#">Link</a>
10	EUPVSEC 2020	<b>Machine learning driven optimization of a hybrid electrical and thermal system</b> Mattia Dallapiccola, M.; Trentin, F.; Moser, D.	<a href="#">Link</a>	<a href="#">Link</a>
11	11th International Congress and Exhibition on Aluminium Brazing // 7th International Congress and Exhibition on Aluminium Heat Exchanger Technologies for HVAC&R - Dusseldorf - Germany	<b>Multifunctional Heat Exchangers for Thermal Energy Storage</b> Nitsch, B.; Strehlow, A.	N.A.	N.A.
12	EnerSTOCK 2021 - 15 <sup>th</sup> International Virtual Conference	<b>Experimental study of a novel three-fluids heat exchanger embedded with phase change materials for cooling applications</b>	<a href="#">Link</a>	<a href="#">Link</a>

	on Energy Storage, 9-11 June 2021, Ljubljana, Slovenia	Dominick Mselle, B.; Zsembinszki, G.; Vérez, D.; Cabeza, L.F.		
13	EnerSTOCK 2021 - 15 <sup>th</sup> International Virtual Conference on Energy Storage, 9-11 June 2021, Ljubljana, Slovenia	<b>Methods for the determination of the state-of-charge of a thermal energy storage device</b> Zsembinszki, G.; Vérez, D.; Dominick Mselle, B.; Borri, E.; Cabeza, L.F.	<a href="#">Link</a>	<a href="#">Link</a>
14	EnerSTOCK 2021 - 15 <sup>th</sup> International Virtual Conference on Energy Storage, 9-11 June 2021, Ljubljana, Slovenia	<b>Life cycle assessment of an innovative hybrid energy storage system for residential buildings</b> Llantoy, N.; Chàfer, M.; Zsembinszki, G.; Cabeza, L.F.	<a href="#">Link</a>	<a href="#">Link</a>
15	EnerSTOCK 2021 - 15 <sup>th</sup> International Virtual Conference on Energy Storage, 9-11 June 2021, Ljubljana, Slovenia	<b>Experimental comparison of small-scale and full-scale latent storage for integration in efficient heat pumps</b> Palomba, V.; Dominick Mselle, B.; Vérez, D.; Zsembinszki, G.; Borri, E.; Cabeza, L.F.; Varvagiannis, S.; Nitsch, B.; Strehlow, A.; Barmparitsas, N.; Leontaritis, A.; Bonanno, A.; E. Dino, G.; Karellas, S.; Frazzica, A.	<a href="#">Link</a>	<a href="#">Link</a>
16	EnerSTOCK 2021 - 15 <sup>th</sup> International Virtual Conference on Energy Storage, 9-11 June 2021, Ljubljana, Slovenia	<b>Experimental evaluation of a heat pump-latent storage system for increasing renewable share of the residential stock</b> Palomba, V.; Varvaggiannis, S.; Monokrousou, E.; Nitsch, B.; Barmparitsas, N.; Bonanno, A.; Dino, G.; Leontaritis, A.; Strehlow, A.; Karellas, S.; Frazzica, A.; Cabeza, L.F.	<a href="#">Link</a>	<a href="#">Link</a>
17	PCM2021 (IIR Conference on PCMs and slurries for refrigeration and air conditioning) Vicenza (or virtually) in September 2021	<b>Experimental evaluation of a heat pump-latent storage system for increasing renewable share of the residential stock</b> Palomba, V.; Varvagiannis, S.; Monokrousou, E.; Nitsch, B.; Barmparitsas, N.; Bonanno, A.; Dino, G.E.; Leontaritis, A.; Strehlow, A.; Karellas, S.; Frazzica, A.; Cabeza, L.F.	<a href="#">Link</a>	<a href="#">Link</a>

## 4 Workshops

A total of **15 workshops** were organized by HYBUILD, many of them in cooperation with several other research projects (see also deliverable D9.3 for a summary of synergies established between HYBUILD and other initiatives). Table 3 provides relevant links to the executive summary of these workshops on the HYBUILD website, and/or links to the papers which were produced as an outcome of these workshops. Two of the workshops led to **2 Open Access papers published in MDPI Proceedings**: they are both visible in OpenAire.

Table 3. List of workshops organized by HYBUILD and relevant links

#	Date, place, lead partner (underlined), contributing partner	Workshop title/description	Relevant links
1	25 April 2018 (M7), Aglantzia, <u>AGL</u>	Presentation of the HYBUILD project to the inhabitants of Aglantzia Municipality as well as to the community council and poster presentation.	See Event Report in Appendix
2	06 November 2018 (M14), Nicosia, <u>UCY</u> , AGL	Overall presentation of the HYBUILD project. This one-day workshop was an opportunity to benchmark the progress of several projects.	See Event Report in Appendix
3	27-29 June 2018 (M9), Aix-les-Bains, <u>R2M</u> , CNR-ITAE	<b>The Future of Energy Storage Workshop at Sustainable Places 2018.</b> Energy storage can support the EU's plans for the Energy Union by helping to ensure energy security and a well-functioning internal market and helping to bring more carbon-cutting renewables online. By using more energy storage, the EU can decrease its energy imports, improve the efficiency of the energy system, and keep prices low by better integrating variable renewable energy sources. This workshop has permitted to benchmark the progress of several projects supported by the European Commission which are focused on the development of innovative energy storage solutions including <b>HYBUILD</b> , <b>SCORES</b> , <b>TESSe2b</b> , <b>CREATE</b> , <b>E2VENT</b> and <b>STORY</b> .	<a href="#">Workshop report</a>
4	3 November 2018 (M14), Athens, <u>NTUA</u>	<b>Thermal Energy Storage Systems for Energy Efficient Buildings.</b> An integrated solution for residential building energy storage by solar and geothermal resources – workshop with sister projects <b>TESSe2b</b> , <b>CREATE</b> , <b>SCORES</b> , <b>STORY</b> and <b>E2VENT</b> .	See Event Report in Appendix
5	18 December 2018 (M15), Barcelona, <u>COMSA</u>	<b>Future of Hybrid System Applications – A Real Case Solving with COMSA Corporación.</b> The HYBUILD coordinator, COMSA, participated in a “Case Solving” event on 18 December 2018 in Barcelona (Spain) with the InnoEnergy CommUnity. The bulk of attendees were current Energy Engineering Master’s students, with some entrepreneurs and academic alumni participating as well. The HYBUILD project was presented, and attendees were asked to vision how they would market the HYBUILD solution. See case study presentation here. The attendees helped define ideas and a value proposition canvas for three distinct market scenarios for applying the HYBUILD solution. A unique idea specific to farming applications was presented as a possible business model.	<a href="#">Workshop report</a>
6	Feb-March 2019 (M17), Wels, <u>AIT</u> , UDL, FRESNEX, OCHSNER, R2M	<b>World Sustainable Energy Days 2019 – Innovation Workshops Energy and Buildings.</b> Six H2020 research and innovation projects – <b>HYBUILD</b> , <b>CREATE</b> , <b>SCORES</b> , <b>TESSE2B</b> , <b>THERMOSS</b> , and <b>SUNHORIZON</b> – organised the “Save today, use tomorrow” workshop at WSED, Wels, Austria. Each project introduced its results and led	<a href="#">Workshop report</a>

		interactive discussions related to storage innovations for tomorrow' smart buildings and cities.	
7	5-7 June 2019 (M21), Cagliari, <u>R2M</u> , CNR-ITAE	<p><b>Sun and Thermal Energy: Europe's Precious Energy Sources for Efficient Industries and Buildings. Sustainable Places 2019 - Innovation workshop for the EU building research community</b></p> <p>In this workshop, we discussed the progress of five Horizon 2020 projects – <b>HYCOOL</b>, <b>SHIP2FAIR</b>, <b>THERMOSS</b>, <b>SUNHORIZON</b> and <b>HYBUILD</b> – all implementing solar thermal and renewable technologies for buildings and for the industrial sector. The discussion offered opportunities to identify and benchmark key challenges being faced by the projects, both technical and non-technical, and allowed to identify cooperation opportunities.</p>	<a href="#">Workshop report</a>  <a href="#">Workshop paper in MDPI Proceedings (Link in OpenAire)</a>
8	24 June 2019 (M21), Aglantzia, <u>AGL</u> , UCY	<p><b>Workshop on Promoting Effective Generation and Sustainable USEs of electricity (Pegasus)</b></p> <p>This workshop was attended by around 50 Professionals (designers, ICT installers, energy advisors), Construction and engineering companies, Academia, Scientific community, and General Public. Participants have shown interest for the HYBUILD project and they discussed the idea to apply it in other buildings.</p>	See Event Report in Appendix
9	25 November 2019 (M26), Aglantzia, <u>AGL</u> , UCY	<p><b>Energy Technologies and Restoration of Vernacular Architecture</b></p> <p>This one-day symposium was organised by Aglantzia municipality and the University of Cyprus, with the aim to benchmark the progress of the HYBUILD project, to highlight the environmental aspect of vernacular architecture and to demonstrate ways of restoration using energy technologies.</p> <p>30 persons attended the event, both professionals (designers, ICT installers, energy advisors), municipal councils representatives, construction and engineering companies, academia, scientific community, and general public.</p>	<a href="#">Workshop report</a>
10	December 2019 (M27), Athens, <u>NTUA</u>	<p><b>Graeducation / Greening Seminar, Digitization and Entrepreneurship: Empowering Greek Vocational Education</b></p> <p>Both the German and Greek vocational education systems face the challenge of adapting the necessary skills to modern labor markets. Climate protection is one of the aspects that leads to new skills requirements, especially in the technical professions.</p> <p>Modern employment biographies require personal skills, which can be described as “business skills”. Digitization is seen as an issue, which is causing changes in many technologies and modifying to a certain extent the teaching and learning processes, in such a way as to require both teachers and students digital skills and a different view of their roles, teacher and trainee.</p> <p>As part of the GRÆEDUCATION project, a seminar idea was developed that takes into account these new requirements and was tested in Athens in the first week of December 2019.</p>	<a href="#">Workshop report</a>

		<p>The seminar included “green” business modules as well as interactive skills modules in the areas of employability and entrepreneurship.</p>	
11	<p>October 2020 (M37), Digital event, <u>R2M</u>, CNR ITAE, UDL</p>	<p><b>Sustainable Places 2020 Workshop 1: Renewable Heating and Cooling Solutions for Buildings and Industry</b></p> <p>On 29 October 2020, HYBUILD organised and contributed to the largest workshop of Sustainable Places 2020 with 14 other sister-projects.</p> <p>Participating projects : <b>SWS-Heating – HYBUILD – CREATE – TRI-HP – HYCOOL – SHIP2FAIR – SUNHORIZON – Heat4Cool – GEOFIT – SCORES – Innova MicroSolar – Hybrid BioVGE – RES4BUILD – SolBio-Rev – FRIENDSHIP</b> ; Chair of the workshop: Andrea Frazzica (CNR ITAE) ; Participating European Commission representative: Olga RIO-SUAREZ, Policy Officer, DG Research &amp; Innovation.</p>	<p><a href="#">Workshop report and video recording</a></p> <p><a href="#">Workshop paper in MDPI Proceedings (Link in OpenAire)</a></p>
12		<p><b>Sustainable Places 2020 Workshop 2: Integrated Storage systems for Residential buildings</b></p> <p>On 29 October 2020, HYBUILD participated to the Integrated Storage Systems for Residential Buildings workshop at Sustainable Places 2020.</p> <p>Participating projects: <b>MINISTOR, HEAT INSYDE, HYBUILD, InteGRIDy</b>; Participating European Commission representative: Dominique Planchon, Senior Program Officer, DG Research &amp; Innovation</p>	<p><a href="#">Workshop report and video recording</a></p>
13	<p>25 June 2021 (M45), Wels, <u>AIT</u>, R2M, AKG, CSEM, FAHR</p>	<p><b>Workshop at World Sustainable Energy Days 2021</b></p> <p>HYBUILD organised this workshop entitled ‘Innovative Renewable Solutions for European Buildings’ in cooperation with <b>SCORES &amp; GEOFIT</b> projects. The workshop was the opportunity to present key innovative exploitable results from the HYBUILD project including: 1) the Advanced PCM (Phase Change Material) thermal storage modules for direct integration in the refrigerant cycle – presented by AKG; (2) the DC bus controller solution for heat pump market – presented by CSEM; (3) an Innovative adsorber: Adsorption Heat exchanger with high surface area – presented by FAHRENHEIT.</p>	<p><a href="#">Workshop summary</a></p>
14	<p>29 Sept-1 Oct 2021 (M48), Roma and online (hybrid event), <u>CNR ITAE</u>, R2M</p>	<p><b>Renewable Heating and Cooling Solutions for Buildings and Industry 2.0" workshop at Sustainable Places 2021.</b></p> <p>This workshop was a follow up to last year’s workshop at SP2020 focused on the same topic which brought together a selection of H2020 EU-funded projects involving experts from the biomass, geothermal, solar thermal and heat pump sectors to discuss a common strategy for increasing the use of renewable energy technologies for heating and cooling for buildings and industry. This year, we expanded this vision to include solutions towards NZEB concepts and solutions addressing the envelope. Projects were again invited to pitch their progress and achievements to date (a pitch presentation template was developed accordingly). Interactive discussion slots allowed identifying possible synergies, cooperation on</p>	<p><a href="#">Workshop report and video recording</a></p>

		<p>horizontal issues or potential joint dissemination activities to maximize expected impacts.</p> <p>Following an introductory presentation of the RHC Projects Database by Dan Stefanica of EHPA, the following five clusters of EU projects were presented: <u>RHC for industrial applications (HYCOOL, SHIP2FAIR, Friendship, ASTEP)</u>; <u>Storage solutions for RHC support in buildings (HYBUILD, SWS Heating, SCORES, Ministor)</u>; <u>Innovative solutions for RHC deployment in buildings (Innova MicroSolar, SolBio-Rev, TriHP, RES4BUILD)</u>, <u>Demonstration actions for RHC in buildings (GEOFIT, SunHorizon, HybridBioVGE)</u>; <u>Towards NZEB deep renovation with RHC technologies: barriers or challenges (ENSNARE, INFINITE, POWERSKIN, PLURAL, ENVISION)</u>.</p>	
15	17 February 2022 (M53), Digital event, R2M, COMSA, UDL	<p>BUILD-UP workshop in cooperation with SCORES (final event) “Hybrid domestic energy systems of the future” final conference in which SCORES and HYBUILD sister projects shared and discussed their final outcomes.</p>	<p><a href="#">Workshop report and video recording</a></p>

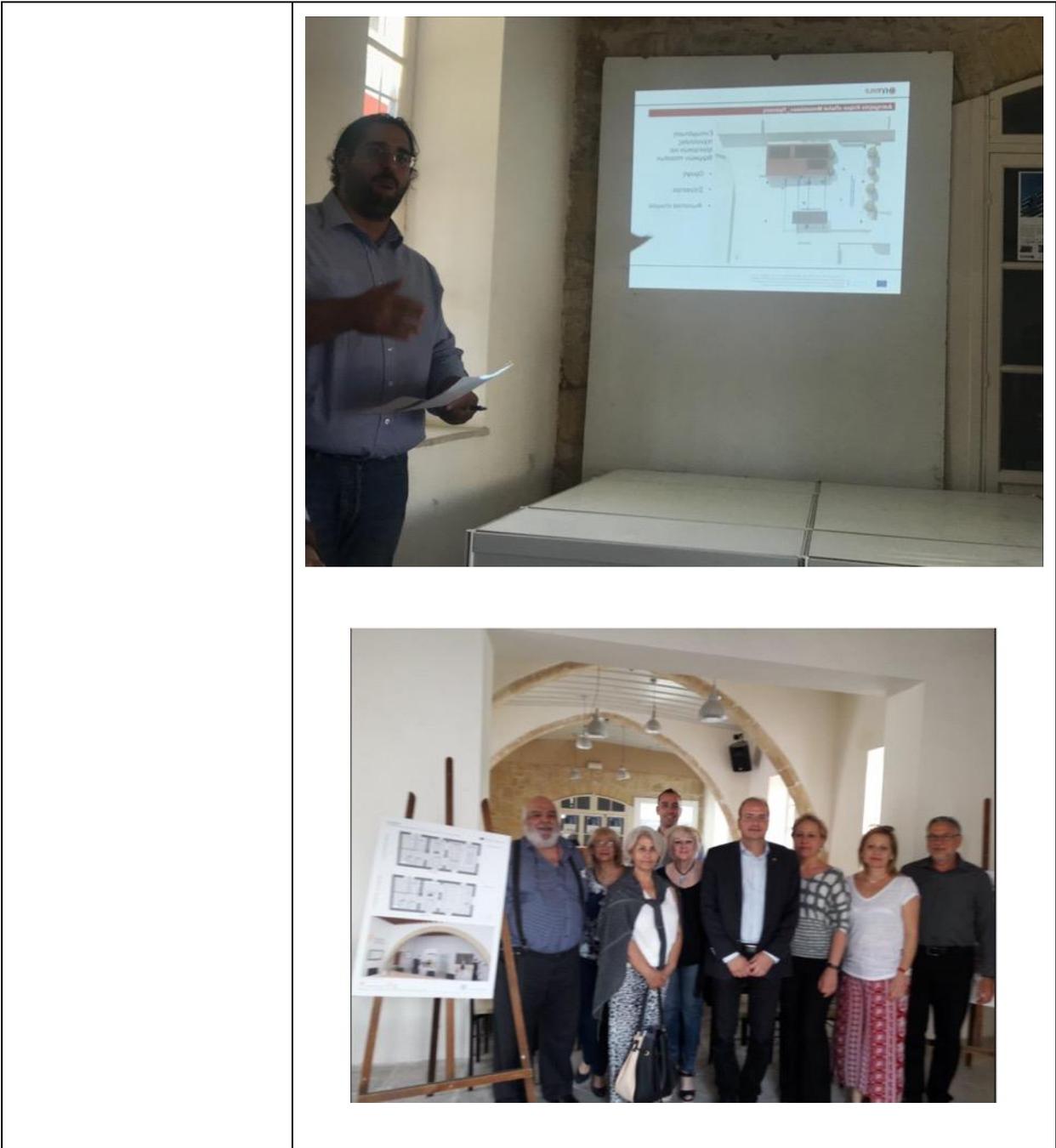
## Appendix: Event reports

<b>Date</b>	25 April 2018
<b>Event name</b>	Informative meeting for HYBUILD
<b>Event description</b>	A meeting of the representatives with the residences of HYBUILD aiming to give an overall presentation of the HYBUILD project. This one-day workshop intends to benchmark the progress of several projects.
<b>Location</b>	Culture Center of SPE Aglantzias in Aglantzia
<b>HYBUILD participants</b>	<p><u>Municipality of Aglantzia:</u>            Charalambos Petrides, Mayor of Aglantzia            Marinos Kleanthous, Evgenia Aletra, Marios Cherides, Elena Landa - Municipal Councillors            Athena Yiannaka, Municipal Officer            Yiangos Yiangou, Municipal Officer            Andri Vitsaidou, Municipal Officer</p> <p><u>UCY:</u>            Aimilios Michael            Chrysanthos Charalambous            Chryso Heracleous            Venizelos Efthymiou</p>
<b>Nature of participation</b>	Professionals (designers, ICT installers, energy advisors), Municipal council, Construction and engineering companies, Academia, Scientific community, General public
<b>Number of attendees</b>	40
<b>Feedback &amp; added-value</b>	<p><b>Feedback:</b> Residences have shown interest for the project and they discussed the idea to apply it in other buildings of Aglantzia or even in private properties.</p> <p>HYBUILD project was considered as a plan of revitalization of the old town area and motivation for Aglantzia's citizens for energy efficiency, as stated by the Mayor Charalambros Petrides.</p> <p><b>Added value:</b> It enhances the day to day association between residences and Municipality but also between the University and the Municipality.</p>

	<p>HYBUILD boosts development at Aglantzia area through a research investment. The inauguration and operation of the building will create positive effects on the revitalization of the area.</p>
<p>Picture(s)</p>	 A photograph showing a group of people, including men and women in professional attire, seated in a room during an inauguration event. The room features a high ceiling with exposed wooden beams and a large, curved wooden archway. The people are seated on wooden chairs, and the atmosphere appears to be formal and attentive.

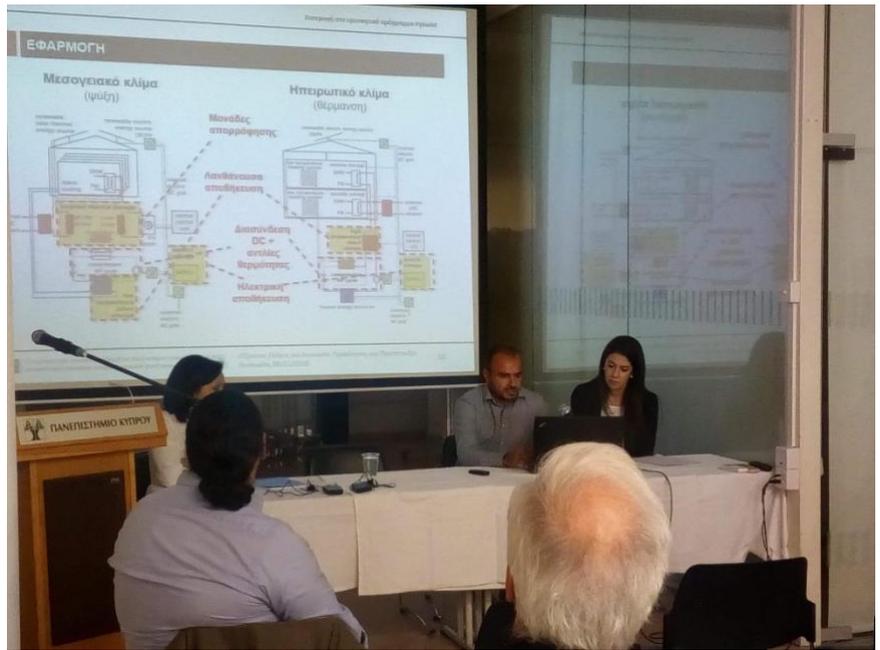






<b>Date</b>	06 November 2018
<b>Event name</b>	Smart Cities and Society: Challenges and Prospects
<b>Event description</b>	A meeting of the representatives with the Professionals (designers, ICT installers, energy advisors), Construction and Engineering companies, Academia, Scientific community, General public regarding actions using European Research Programmes including Hybuild project. This one-day symposium intends to benchmark the progress of several projects.
<b>Location</b>	Department of Architecture, University of Cyprus

<p><b>HYBUILD participants</b></p>	<p>Aimilios Michael, Chrysanthos Charalambous, Chryso Heracleous, Venizelos Efthymiou (UCY) Charalambos Petrides (Mayor of Aglantzia), Municipal council of Aglantzia, Athena Yiannaka</p>
<p><b>Nature of participation</b></p>	<p>Professionals (designers, ICT installers, energy advisors), Municipal councils, Construction and engineering companies, Academia, Scientific community, General public</p>
<p><b>Number of attendees</b></p>	<p>60</p>
<p><b>Feedback &amp; added-value</b></p>	<p><b>Feedback:</b> Participants have shown interest for the project and they discussed the idea to apply it in other buildings.</p> <p><b>Added value:</b> It enhances the information of citizens about the new technologies.</p> <p>Hybuild boosts development at Aglantzia area through a research investment. The inauguration and operation of the building will create positive effects on the revitalization of the area.</p>
<p><b>Picture(s)</b></p>	







Date

06 November 2018

<b>Event name</b>	Smart Cities and Society: Challenges and Prospects
<b>Event description</b>	A meeting of the representatives with the Professionals (designers, ICT installers, energy advisors), Construction and Engineering companies, Academia, Scientific community, General public regarding actions using European Research Programmes including Hybuild project. This one-day symposium intends to benchmark the progress of several projects.
<b>Location</b>	Department of Architecture, University of Cyprus
<b>HYBUILD participants</b>	Aimilios Michael, Chrysanthos Charalambous, Chryso Heracleous, Venizelos Efthymiou (UCY) Charalambos Petrides (Mayor of Aglantzia), Municipal council of Aglantzia, Athena Yiannaka
<b>Nature of participation</b>	Professionals (designers, ICT installers, energy advisors), Municipal councils, Construction and engineering companies, Academia, Scientific community, General public
<b>Number of attendees</b>	60
<b>Feedback &amp; added-value</b>	<b>Feedback:</b> Participants have shown interest for the project and they discussed the idea to apply it in other buildings.  <b>Added value:</b> It enhances the information of citizens about the new technologies.  Hybuild boosts development at Aglantzia area through a research investment. The inauguration and operation of the building will create positive effects on the revitalization of the area.
<b>Picture(s)</b>	





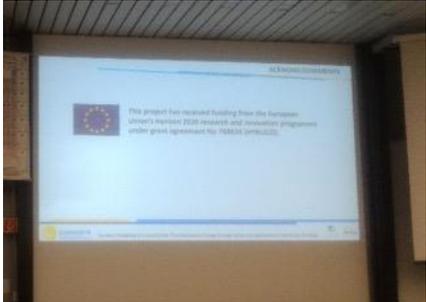




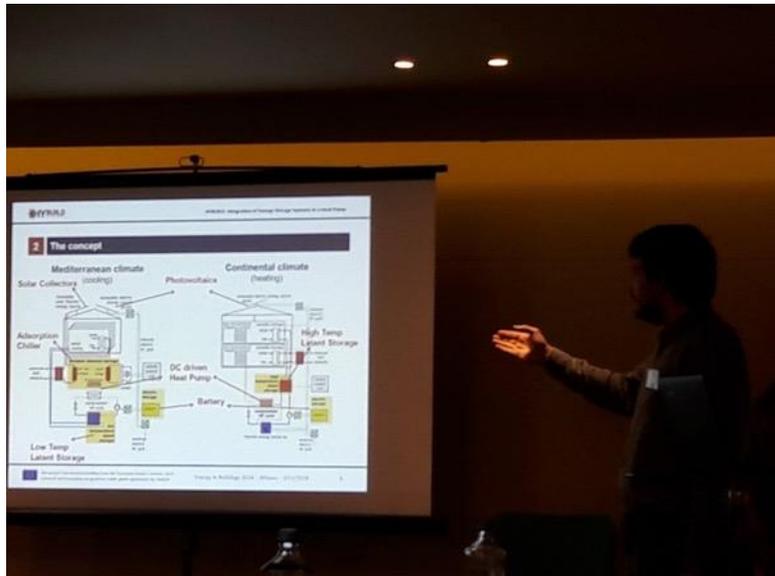
<b>Date</b>	27 June 2018
<b>Event name</b>	Sustainable Places 2018
<b>Event description</b>	<p><b>“The future of energy storage” Workshop</b> at the 6<sup>th</sup> annual Sustainable Places (SP) international conference series, intends to benchmark the progress of several projects supported by the European Commission which are focused on the development of innovative energy storage solutions.</p> <ul style="list-style-type: none"> <li>• <a href="#">HYBUILD</a> and <a href="#">SCORES</a> – two projects started in 2017 which are focused on the development of innovative hybrid storage solutions for residential buildings</li> </ul>

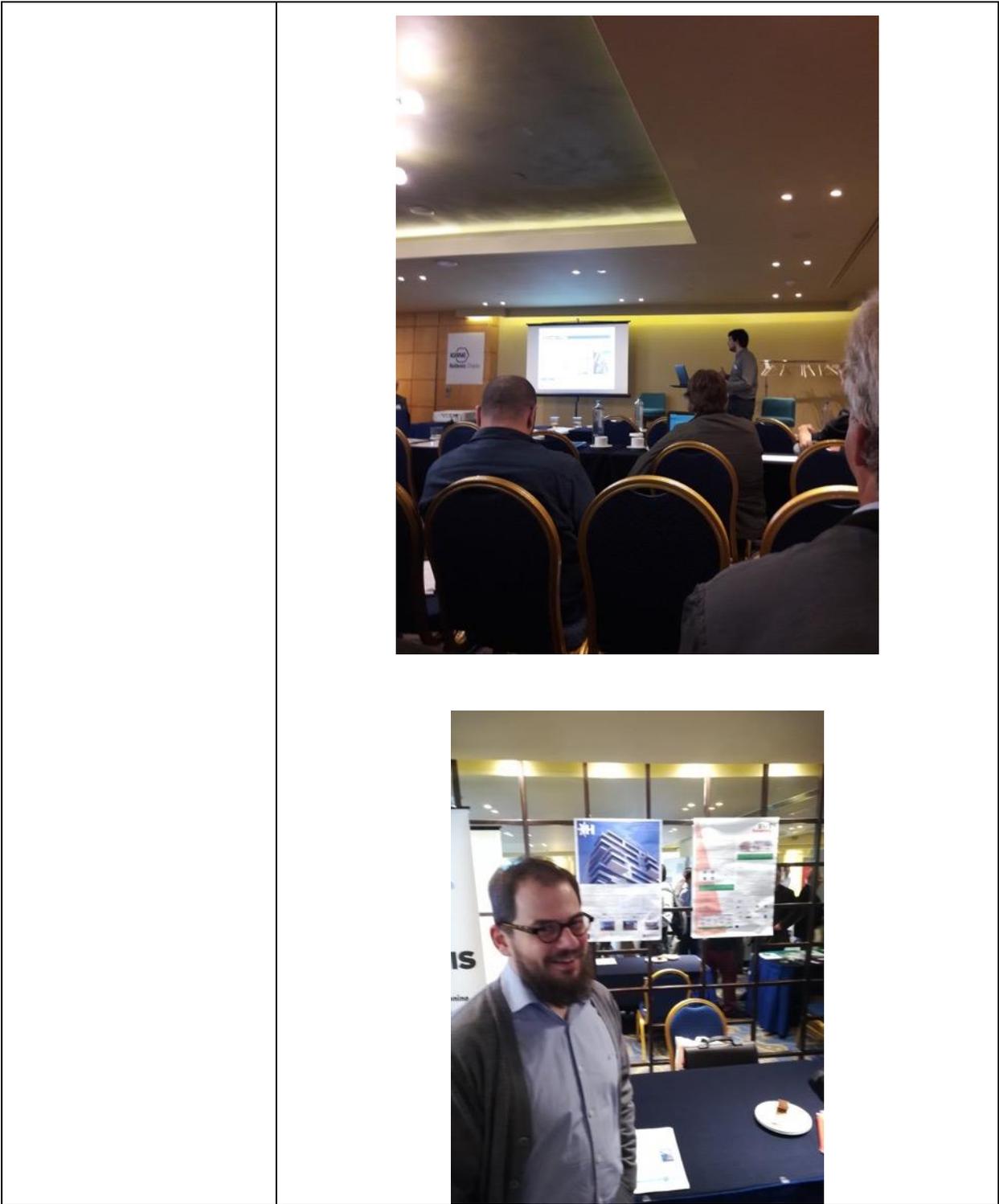
	<ul style="list-style-type: none"> <li>• <a href="#">TESSe2b</a> (2015-2019) – a project which ambitions to develop an integrated solution for residential building energy storage through the use of solar and geothermal resources.</li> <li>• <a href="#">CREATE</a> (2015-2019) – which aims to tackle the thermal energy storage challenge for the built environment by developing a compact heat storage.</li> <li>• <a href="#">E2VENT</a> (closing in 2018) – which developed a ventilated façade with SMHRU (smart heat recovery unit), LHTES (latent heat thermal storage system) and BEMS (building energy management system).</li> <li>• <a href="#">STORY</a> (2015-2020) – which aims at showing the added value of storage to the distribution grid through demonstrations or a variety of storage types in a variety of environments, and simulating the effects of large-scale implementation of the small and medium scale storages</li> </ul> <p>Each project introduced itself during the workshop and proposed one or two horizontal topics for establishing cooperation to be further implemented after the event (e.g. shared dissemination activities, business models, KPIs reference framework, market studies, etc.)</p>
<b>Location</b>	Aix-les Bains, France
<b>HYBUILD participants</b>	R2M, CNR-ITAE
<b>Nature of participation</b>	Workshop with HYBUILD-sister projects
<b>Picture(s)</b>	

<b>Date</b>	10-13 September 2018
<b>Event name</b>	Eurosun 2018 Conference
<b>Event description</b>	International conference organised by International Solar Energy Society to connect scientist, engineers and professionals linked to solar energy utilization and storage
<b>Location</b>	Rapperswill (CH)
<b>HYBUILD participants</b>	CNR

<p><b>Nature of participation</b></p>	<p>Presentation of work of T3.1 on dynamic modelling of Mediterranean and Continental system</p>
<p><b>Number of attendees</b></p>	<p>1</p>
<p><b>Feedback &amp; added-value</b></p>	<p>The conference counted about 350 attendees, which is a quite big number for thermal energy conferences in Europe, the presentation was attended by around 90 participants.</p>
<p><b>Picture(s)</b></p>	
	
	

<b>Date</b>	3 November 2018
<b>Event name</b>	ASHRAE ENERGY in BUILDINGS 2018 – TESSE <sup>2</sup> B Conference
<b>Event description</b>	Workshop focused on thermal energy storage solutions and research activities, in the context of the EU's H2020 Research Programme "TESSE <sup>2</sup> B"
<b>Location</b>	Wyndham Grand Hotel, Athens, Greece
<b>HYBUILD participants</b>	NTUA, DAIK
<b>Nature of participation</b>	Presentation of the project's concept and current state.
<b>Number of attendees</b>	25-30 (est.)
<b>Feedback &amp; added-value</b>	Positive feedback from the conference chairman and attendees at the end of the presentation. Discussion with the rest of the conference attendees regarding technical solutions and methods. Special focus was given on similarities with other EU's research projects (especially the CREATE and SCORES projects). Promotion of the HYBUILD concept and methodologies.
<b>Picture(s)</b>	





<b>Date</b>	18 December 2018
<b>Event name</b>	HYBUILD: Future of Hybrid System Applications - A Real Case Solving with COMSA Corporación
<b>Event description</b>	The bulk of attendees were current Energy Engineering Master's students, with some entrepreneurs and academic alumni

	participating as well. The event was organized and funded by the InnoEnergy CommUnity
<b>Location</b>	Barcelona, Spain
<b>HYBUILD participants</b>	COMSA
<b>Nature of participation</b>	Facilitator, Judge
<b>Number of attendees</b>	18 (40 enrolled)
<b>Feedback &amp; added-value</b>	<p>-At least 4 attendees mentioned they would be interested in more similar events.</p> <p>-Attendees helped define ideas and a value proposition canvas for three distinct market scenarios for applying the HYBUILD solution</p> <p>-Unique idea specific to farming applications presented as a possible business model</p>
<b>Picture(s)</b>	 <p>The 'Picture(s)' section contains three photographs. The top photo shows a group of people, including a woman in a dark jacket and a man in a suit, gathered around a table, looking at and pointing to documents. The middle photo shows a presentation in progress in a lecture hall, with a woman standing at the front and a screen displaying a diagram. The bottom photo shows a group of eight people standing in a line on a stage, each holding a certificate or award.</p>

<b>Date</b>	24 June 2019
<b>Event name</b>	PEGASUS
<b>Event description</b>	Promoting Effective Generation and Sustainable USEs of electricity
<b>Location</b>	Municipal Activities Center, Kiriadou Matsi 4 ,Aglantzia
<b>HYBUILD participants</b>	6 Chrysanthos Charalambous, Venizelos Efthymiou (UCY) Charalambos Petrides (Mayor of Aglantzia), Municipal council of Aglantzia, Athena Yiannaka, Andri Vitsaidou (Aglantzia Municipality)
<b>Nature of participation</b>	Professionals (designers, ICT installers, energy advisors), Construction and engineering companies, Academia, Scientific community, General Public
<b>Number of attendees</b>	50
<b>Feedback &amp; added-value</b>	<p><b>Feedback:</b> Participants have shown interest for the project and they discussed the idea to apply it in other buildings.</p> <p><b>Added value:</b> HYBUILD boosts development at Aglantzia area through a research investment. The inauguration and operation of the building will create positive effects on the revitalization of the area.</p>
<b>Picture(s)</b>	



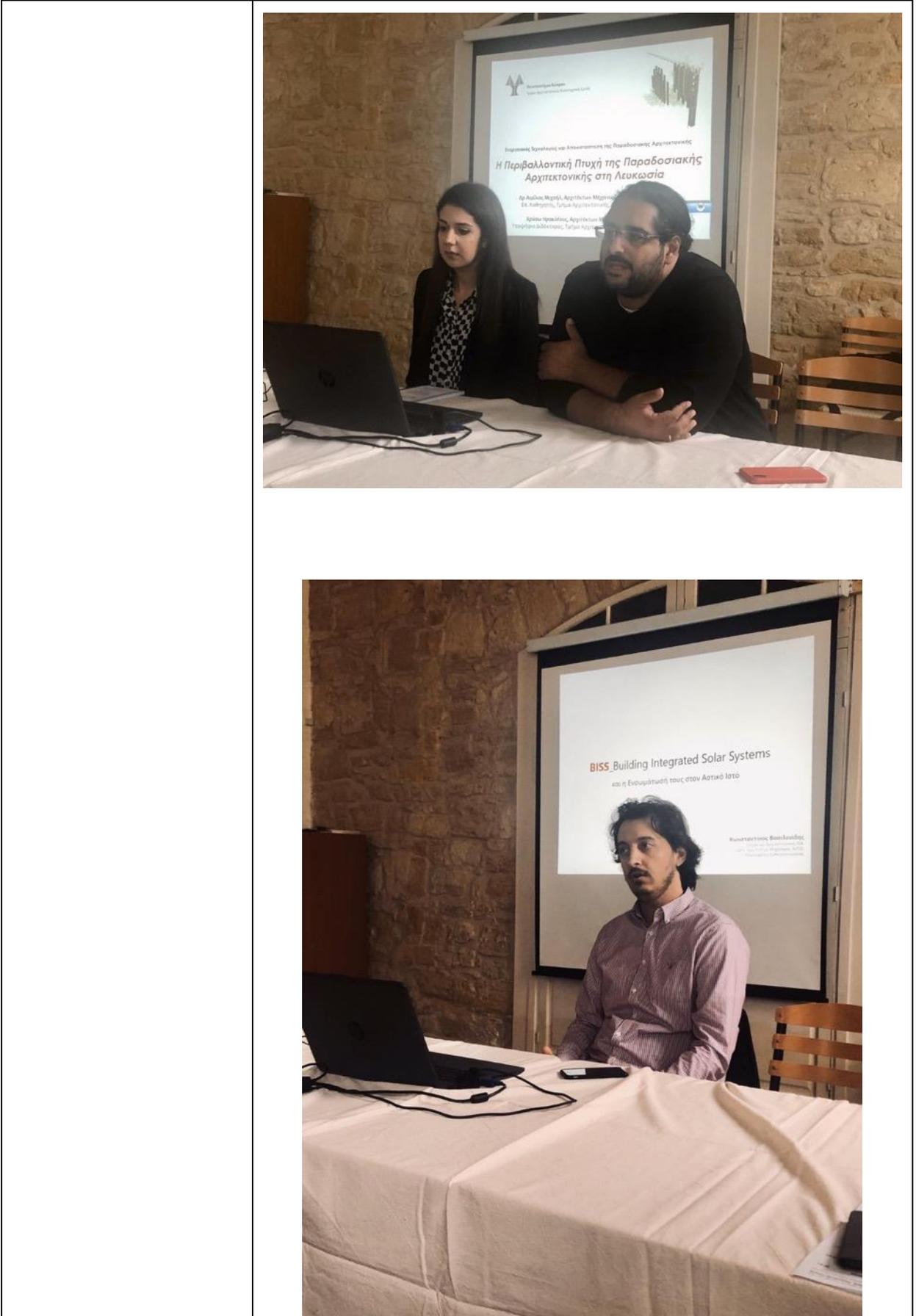
<b>Date</b>	25 November 2019
<b>Event name</b>	Energy Technologies and Restoration of Vernacular Architecture
<b>Event description</b>	A meeting of the representatives with the Professionals (designers, ICT installers, energy advisors), Construction and Engineering companies, Academia, Scientific community, General public aiming to give an overall presentation of the HYBUILD project. This one-day symposium intended to benchmark the progress of HYBUILD,

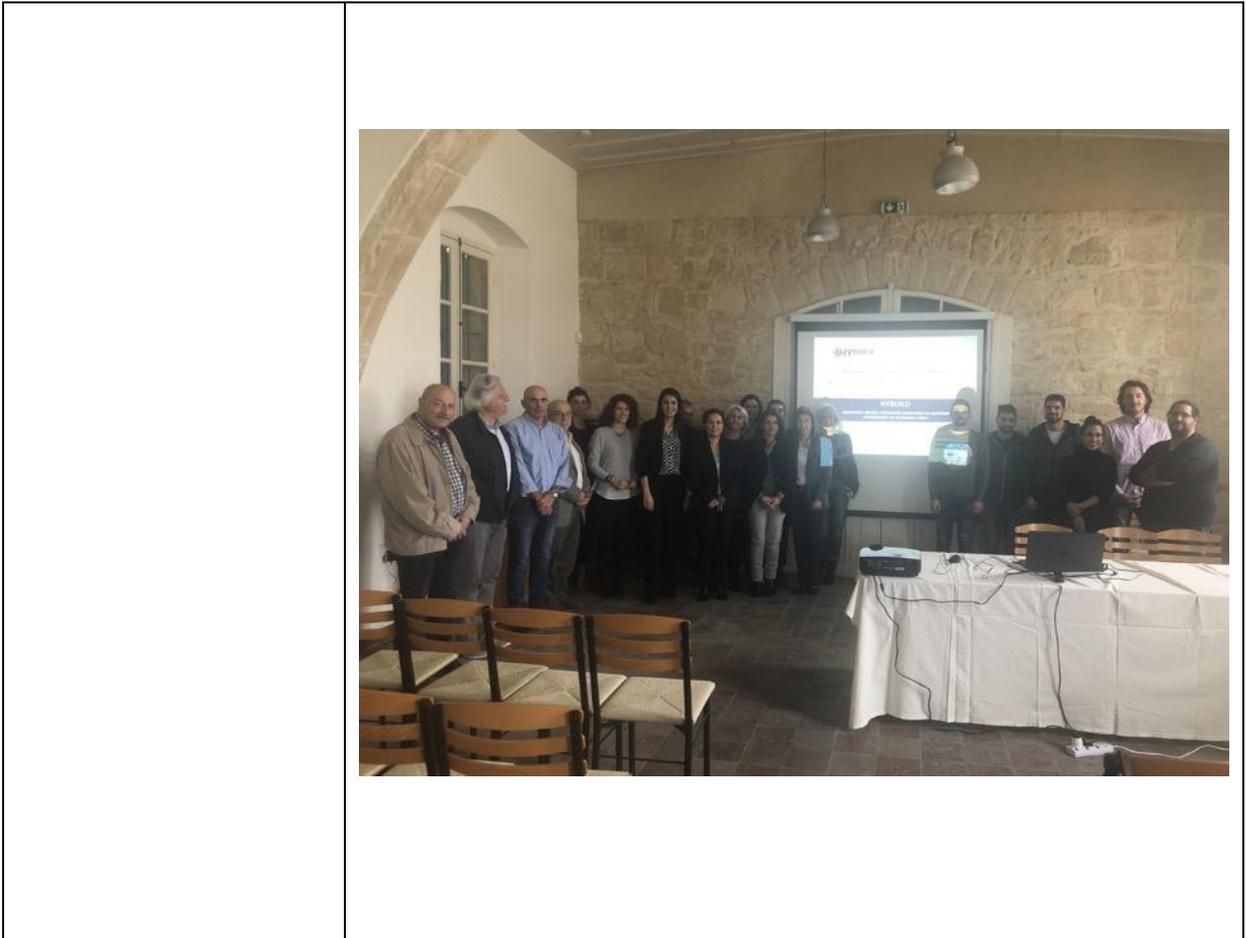
	highlight the environmental aspect of vernacular architecture and demonstrate ways of restoration using energy technologies.
<b>Location</b>	Culture Center of SPE Aglantzias in Aglantzia
<b>HYBUILD participants</b>	<p>Aimilios Michael, Chrysanthos Charalambous, Chryso Heracleous, Venizelos Efthymiou (UCY)</p> <p>Marios Chirides (Vice Mayor of Aglantzia), Municipal council of Aglantzia, Athena Yiannaka, Andri Vitsaidou (Aglantzia Municipality)</p>
<b>Nature of participation</b>	Professionals (designers, ICT installers, energy advisors), Municipal councils, Construction and engineering companies, Academia, Scientific community, General public
<b>Number of attendees</b>	30
<b>Feedback &amp; added-value</b>	<p><b>Feedback:</b> Professionals have shown interest for the project and they have discussed extensively the value of restoration of vernacular architecture and the need to put pressure on policy to accept such systems in vernacular architecture. The idea of HYBUILD point the way in that direction.</p> <p>HYBUILD project was considered as a plan of revitalization and motivation on behalf of the Municipal Council.</p> <p><b>Added value:</b> It enhances the information of professional about the new technologies.</p> <p>HYBUILD enhances the rejuvenation of the area, as it will become a reference point in the historical core of Aglantzia through investment in research. The re-use of the building as a multifunctional center and as an exhibition for renewable energy technologies will have a positive impact on society.</p>

Picture(s)









<b>Date</b>	1-3 September 2020
<b>Event name</b>	35 <sup>th</sup> PLEA Conference of Sustainable Architecture and Urban Design, Planning Post Carbon Cities
<b>Event description</b>	PLEA stands for “Passive and Low Energy Architecture”, a commitment to the development, documentation and diffusion of the principles of bioclimatic design and the application of natural and innovative techniques for sustainable architecture and urban design.
<b>Location</b>	Online
<b>HYBUILD participants</b>	Chryso Heracleous (UCY)
<b>Nature of participation</b>	Professionals (designers, ICT installers, energy advisors), Construction and engineering companies, Academia, Scientific community
<b>Number of attendees</b>	250 total / 50 in session
<b>Feedback &amp; added-value</b>	<b>Feedback:</b> Researchers have shown interest for the project and they asked more details about the performance of vernacular

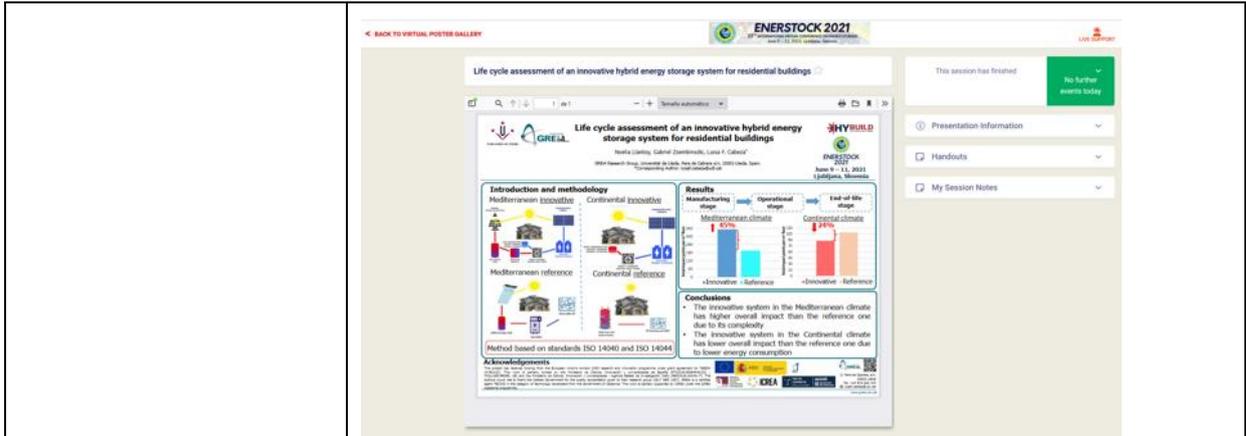
	<p>buildings understanding the lessons learn by these kind of buildings. Some will explore more info through HyBuild website.</p> <p><b>Added value:</b> It enhanced the dissemination of the HYBUILD project in an international conference where people around the world participate. It was great opportunity to network and gain valuable resources for referrals and best practices.</p>
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<b>Date</b>	9-11 June 2021
<b>Event name</b>	EnerSTOCK 2021 - 15 <sup>th</sup> International Virtual Conference on Energy Storage
<b>Event description</b>	<p>Enerstock Conference titled "Towards Smarter Solutions" was held online between 9 and 11 June 2021 and organized by University of Ljubljana – Faculty of Mechanical Engineering and the National Institute of Chemistry Slovenia.</p> <p>The conference featured an impressive number of distinguished experts presenting the latest scientific and technological achievements, as well as future trends and prospects in thermal and electrical energy storage, materials, applications and systems, climate change, climate policies and other related disciplines. Besides plenary and invited lectures, the participants enjoyed the opportunity to present their work at various oral presentations and poster sessions. Moreover, the program included a range of exhibitions and updates from non-academic partners and the industry.</p>
<b>Location</b>	Online
<b>HYBUILD participants</b>	UDL, NTUA, ITAE, AIT, DAIK, AKG
<b>Nature of participation</b>	Two oral presentations and three posters related to different tasks done in the framework of the HYBUILD process were presented
<b>Number of attendees</b>	-
<b>Feedback &amp; added-value</b>	<p>The oral presentation of the posters and presentations attracted the attention of conference participants working in different areas of thermal energy storage.</p> <p>The curiosity from participants attracted the difficulties encountered for the scale-up of the three-fluid storage module</p>

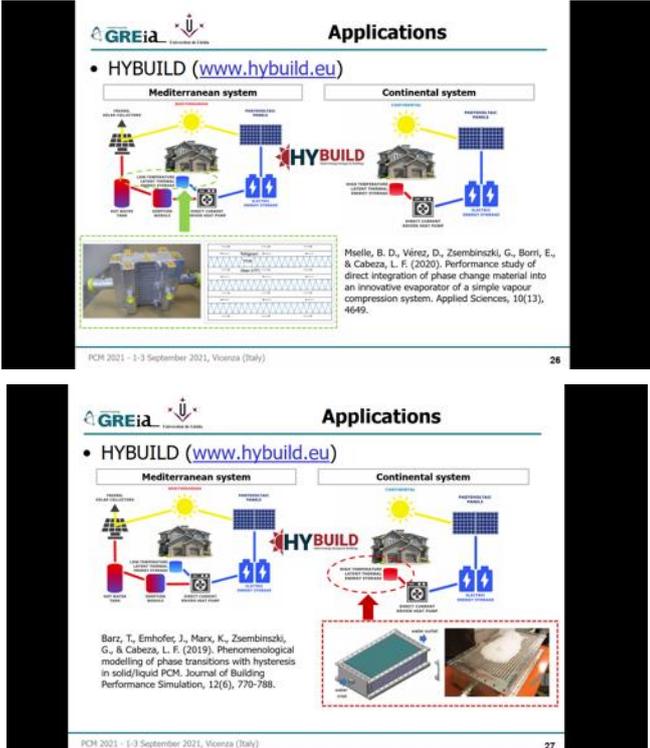
tested at UDL and the environmental impact of the two configurations of the HYBUILD system.

Picture(s)





<b>Date</b>	1-3 September 2021
<b>Event name</b>	13 <sup>th</sup> IIR Conference on Phase-Change Materials and Slurries for Refrigeration and Air Conditioning
<b>Event description</b>	<p>Phase change materials and slurries are becoming key components in the energy mix of the future. Transitioning from a society relying on carbon-based energy to one relying on renewable energies will require coordinating energy demand with source availability.</p> <p>A viable option to achieve this result is through thermal energy storage, as it is one of the most efficient ways to store energy, and phase change materials can help make thermal energy storage better adapted and more financially competitive.</p> <p>The 13<sup>th</sup> IIR Conference on Phase-Change Materials and Slurries for Refrigeration and Air Conditioning will provide an open international forum where academics and stakeholders from across the globe will present and discuss the latest research findings, developments and trends in the field.</p> <p>The conference will give scientists and practitioners an opportunity to network and share ideas that will shape PCM research and engineering for years to come.</p>
<b>Location</b>	Vicenza, Italy (online conference)
<b>HYBUILD participants</b>	Prof. Luisa F. Cabeza (UDL)
<b>Nature of participation</b>	Two slides describing the application of latent heat thermal energy storage in the two systems developed within HYBUILD was presented in the keynote speech “State of art of PCM for air conditioning and refrigeration” given by Prof. Luisa F. Cabeza.

<b>Number of attendees</b>	-
<b>Feedback &amp; added-value</b>	The keynote speech allowed the project to gain visibility amongst the participants showing the effective use of phase change materials in the HYBUILD systems to support thermal energy storage integration with electric storage for improving the share of renewables and overall system efficiency.
<b>Picture(s)</b>	

<b>Date</b>	1-3 September 2021
<b>Event name</b>	PCM2021 Conference
<b>Event description</b>	13 <sup>th</sup> IIR conference on Phase Change Materials and Slurries for refrigeration and air conditioning
<b>Location</b>	Online
<b>HYBUILD participants</b>	CNR
<b>Nature of participation</b>	Oral presentation
<b>Number of attendees</b>	100
<b>Feedback &amp; added-value</b>	Interest in the design of the innovative latent storage was expressed by the participants to the session and also some requests for the presentation file were made.