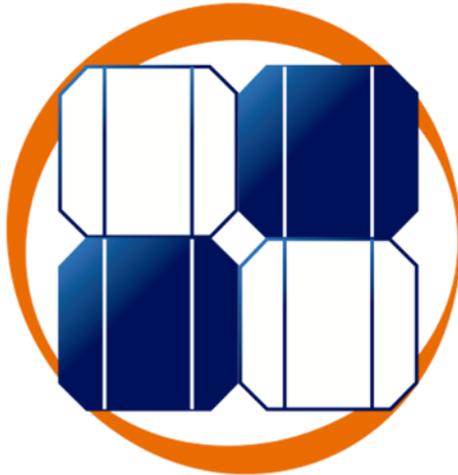


Horizon 2020

Research and Innovation Framework Program



CHESS
SET UP

Deliverable 7.4

6-monthly newsletters compilation

Deliverable Type:	Public
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This project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under Grant Agreement No 680556.



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Document history

Date	Version	Editor	Change	Status
27/04/2020	1	Edenway		Strategy and compilation of all the newsletters published so far
28/09/2020	2	Edenway	Added the last newsletter and impacts	Finished





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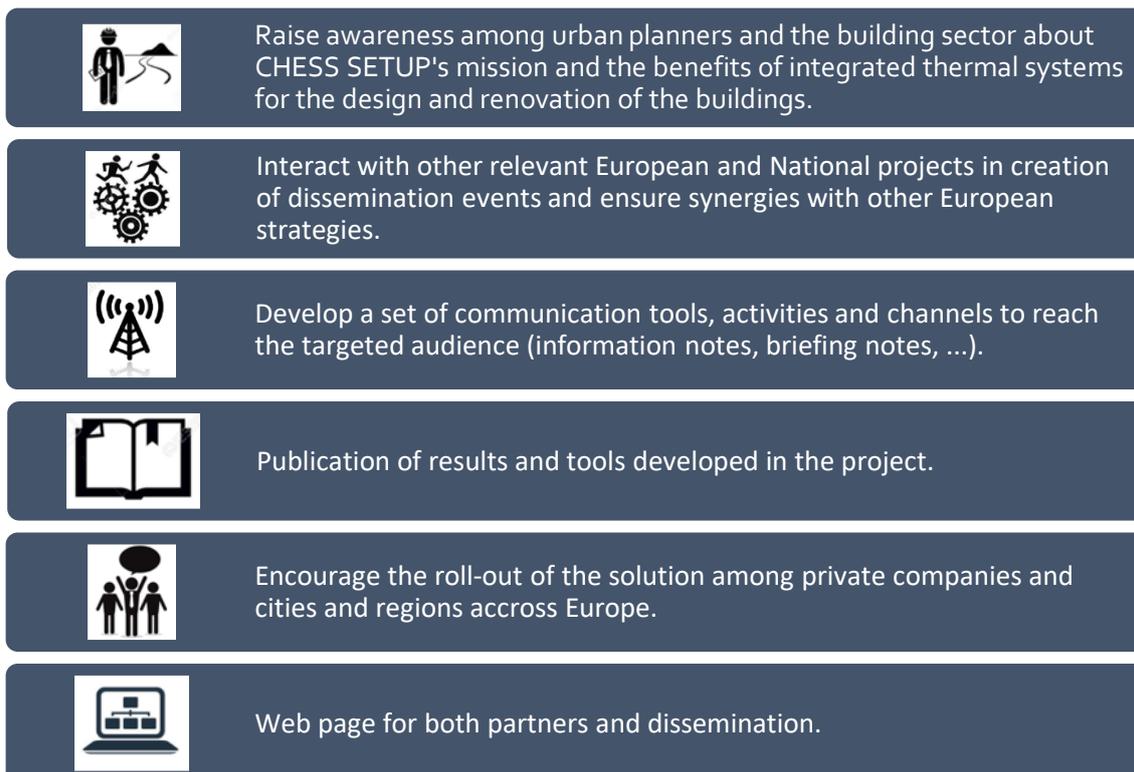
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1. Introduction: CHESSE SETUP Newsletters' Dissemination Strategy

The bi-annually newsletters have been treated as an effective tool helping with the Communication and Dissemination Plan of CHESSE SETUP project exposed in **Deliverable 7.1**. The newsletters have helped to disseminate the project's objectives, development, and achievements all along the project duration.



*Figure 1. Strategic objectives of communication and dissemination
(Source: D7.1 Communication and Dissemination Plan, CHESSE SETUP Project)*

In the first phase of the project, CHESSE SETUP's consortium members communicated their stakeholders' contact list in order to build the initial contact list of newsletters' recipients. The first newsletters were sent to those identified stakeholders, and later on, when the project was advancing, to the whole of new subscribers through CHESSE SETUP website and its associated Email Marketing tool.

The Consortium decided to broaden the width of potential stakeholders and target audience, ranging from the building sector (identified since the beginning), to the civil society, a conceptual entity including non-technical recipients such as the media and end users (Figure 2). In **Deliverable 7.1 Communication and Dissemination Plan** more information about the engagement's reasons and analysis can be consulted. An indicator of "tool relevance" was drawn according to the stakeholders' interests, needs and habits. This helped adjusting our strategy and contents to our targeted audience.



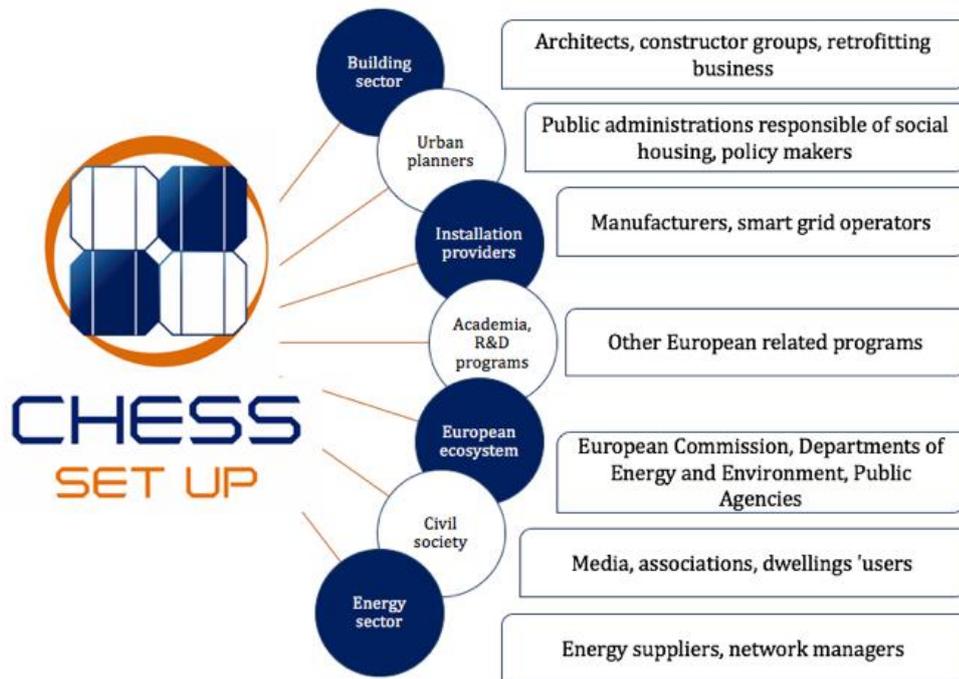


Figure 2. Stakeholders and target groups for communication and dissemination (Source: D7.1 Communication and Dissemination Plan, CHESSETUP Project)

The **newsletters** have been sent bi-annually, approximately every **6-months**, to the mailing-list, composed of the initial stakeholders' list and the further subscribers as well as uploaded in **CHESSETUP website**, where it can be looked and free downloaded by anyone (Figure 3).

The screenshot shows the 'NEWS & SOCIAL' menu on the CHESSETUP website. A blue arrow points to the 'Newsletters' option. Below the menu, the website's main content area is visible, featuring the project title 'Combined HEAT System by using Solar Energy and heat PUMPs' and the slogan 'Seeking buildings self-sufficiency'. The page layout includes a header with navigation links (HOME, PILOTS, PARTNERS, SIMULATION SOFTWARE, NEWS & SOCIAL, More...), a main title, a subtitle, and a section titled 'The Project Objective' with a corresponding 'Last tweets' section.

Figure 3. Newsletters section in CHESSETUP website





8 newsletters have been developed during CHESSE SETUP funded EU Project duration. The number of recipients and subscribers, among other **impact indicators**, are presented in the last section of the document: **3. Impact of CHESSE SETUP newsletters**.

The newsletters **sum up** the state of the project and the pilot cases, the most relevant accomplishments, and a summary of online and offline communication and dissemination activities performed during the period covered in the specific newsletter. Additionally, interesting future events related to energy, energy efficiency, and green buildings' topics were mentioned.

In conclusion, the main **structure** followed in every newsletter was the following (Figure 4):

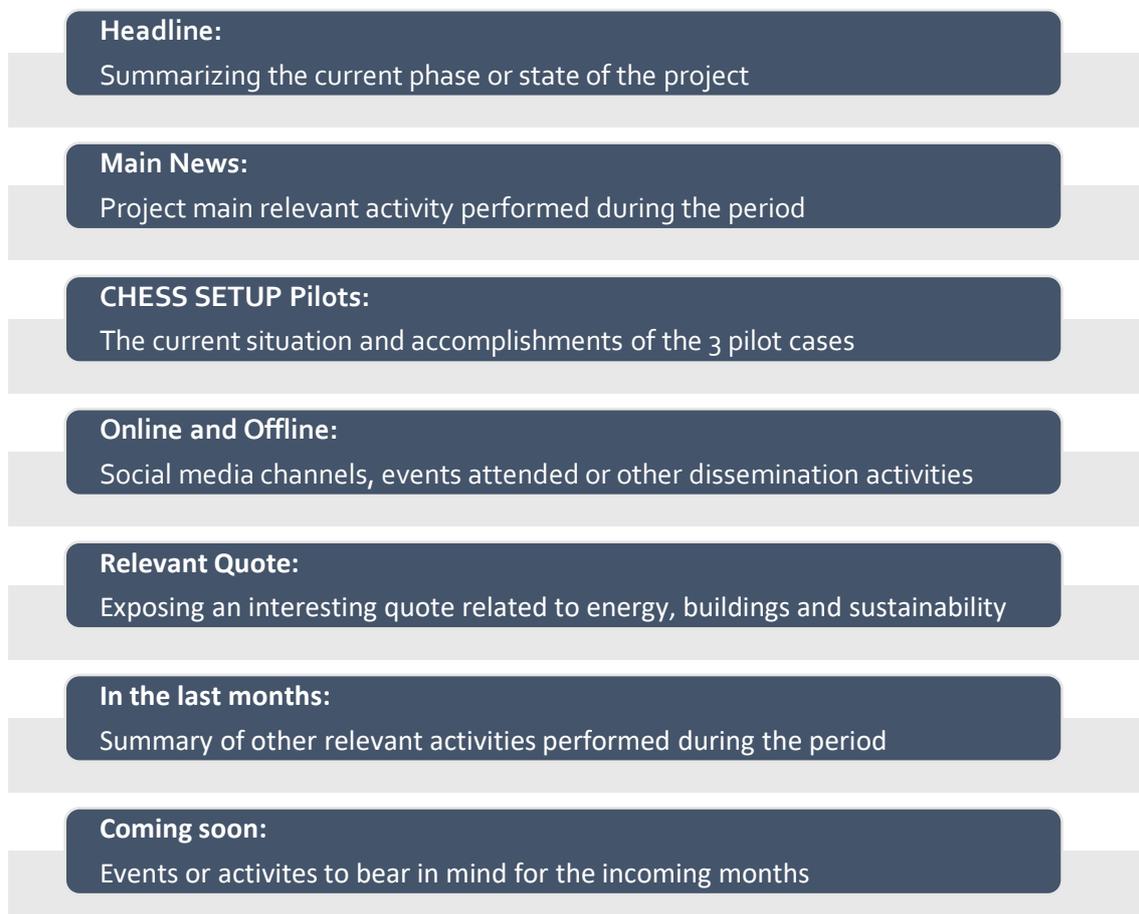


Figure 4. CHESSE SETUP newsletters structure





2. CHESS SETUP Newsletters

The 8 newsletters published by CHESS SETUP EU funded project are:

- **Newsletter 1. February 2017, CHESS SETUP celebrates its 6 months**

The 1st newsletter presented the CHESS SETUP Project for the first time through this channel, exposing the consortium, the main goals, the current progress and communication activities performed during its 6 first months.

Online link to the full newsletter [here](#)



- **Newsletter 2. June 2017, already 1 year**

The 2nd newsletter represented the first anniversary of the project. It presented the CHESS SETUP Project 3rd meeting hold in Belfast, the progress of the 3 pilot cases and the present and future communication activities of the project.

Online link to the full newsletter [here](#)



- **Newsletter 3. February 2018, half of the project achieved**

The 3rd newsletter was aligned with the start of the second period where tangible results were starting to be seen. It also informed about the General conference and participation in the Smart City Expo World Congress in Barcelona, and the 4th Steering Meeting with the in-situ visit to Lavola's pilot case.

Online link to the full newsletter [here](#)





- **Newsletter 4. June 2018, CHESSETUP getting bigger**

The 4th newsletter main news was the revision meeting at the European Commission in Brussels, in order to review the work carried out during the last 21 months of the project. The springing up of Corby's pilot case and the situation of the other two were presented as well as mentioning the successful 1st webinar organised by CHESSETUP consortium: How to retrofit European Buildings and reduce their energy dependency. Finally, the new-born LinkedIn Page was exposed.

Online link to the full newsletter [here](#)



- **Newsletter 5. February 2019, CHESSETUP continues to move forward**

The 5th newsletter was the first of 2019 and gave relevance to the consortium 5th meeting hold in Sant Cugat, presented the work done, the advances of the 3 pilots and the next steps planned. The most relevant communication online and offline activities were also presented, emphasizing that during 2018 the partners participated in more than 30 events and conferences.

Online link to the full newsletter [here](#)



- **Newsletter 6. June 2019, CHESSETUP 3rd anniversary**

The 6th newsletter represented the third anniversary of the project. The 6th meeting held in Corby and outputs of the project progress and pilots were explained. It also remembered that CHESSETUP partners keep up the momentum assisting to energy related events and informed about the incoming Support Service Seminar for Exploitation of Research Results by the European Commission for CHESSETUP consortium.

Online link to the full newsletter [here](#)



This project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under Grant Agreement No 680556.



- **Newsletter 7. December 2019, The positive effects of CHESSE SETUP solution are starting to show**

The 7th newsletter represented the end of the third year of the project and the consortium wished happy holidays and happy New Year 2020 to their readers. The 7th meeting held in Sant Cugat as well as the Support Service Seminar for Exploitation of Research Results were mentioned. The newsletter highlighted the positive effects of the seminar to support the project regarding the project's future exploitation routes. Another important point was the mention of the successful 2nd webinar organized by the Consortium in December: An innovative approach to Thermal Energy Storage and Self-Sufficiency in Buildings.

Online link to the full newsletter [here](#)



- **Newsletter 8. September 2020, It's a see you later**

The 8th and last newsletter represented the end of CHESSE SETUP EU-funded project duration. However, as the newsletter title says, 'it's a see you later' because CHESSE SETUP system is here to stay. All the project partners have designed a Key Exploitation Plan and joint exploitation strategies to realize the potential market opportunities identified in the market analysis.

The final brochure, video and Final Conference of the project were also presented in this newsletter, along with the results of the contracted service consisting of a visual interpretation of the system and final conference.

Online link to the full newsletter [here](#)





3. Conclusions: Evaluation of CHESSE SETUP Newsletters

A set of Key Performance Indicators (KPIs) for evaluating the progress and impact of the communication and dissemination activities was presented in the plan of Deliverable 7.1.

TYPE OF CHANNEL	Echo	General
Social media/Newsletter	N° subscribers/followers Popularity of the messages Audience of the subscribers Initial meeting w/ stakeholders	Publications' frequency N° types of newsletters (adaptation to the public)
Website	N° direct contacts from form Questions asked N° documentation downloads N° views of the promotional video	Uploads' frequency FAQ's edition (Y/N) Infography edition Video (Y/N)
Clustering Activities	N° people attending presentation N° people stopping at the stand Initial meeting w/ stakeholders Relevant informations gathered N° people attending the kick off meeting N° people attending the final conference	N° abstracts sent N° attending event Time spent on strategic watch Time spent on workshops' organisation
Local events	N° people attending People's involvement	N° meetings organised Positive evaluation
One-to-one communication	N° people concerned N° of new contacts Relevant informations gathered	Average time spent answering Time spent canvassing potential stakeholders Follow-up of this exchanges
Press	N° edited N° publications in journals/magazines/portals N° publications in generalist journals/magazines/portal Audience of the publications	Abstracts, articles sent Contact with journalists/editors N° Press Releases

Figure 5. KPIs for type of channel for communicate and disseminate activities during CHESSE SETUP Project. (Source: D7.1 Communication and Dissemination Plan, CHESSE SETUP Project)

In the case of the Newsletter these KPIs are adapted as follows:

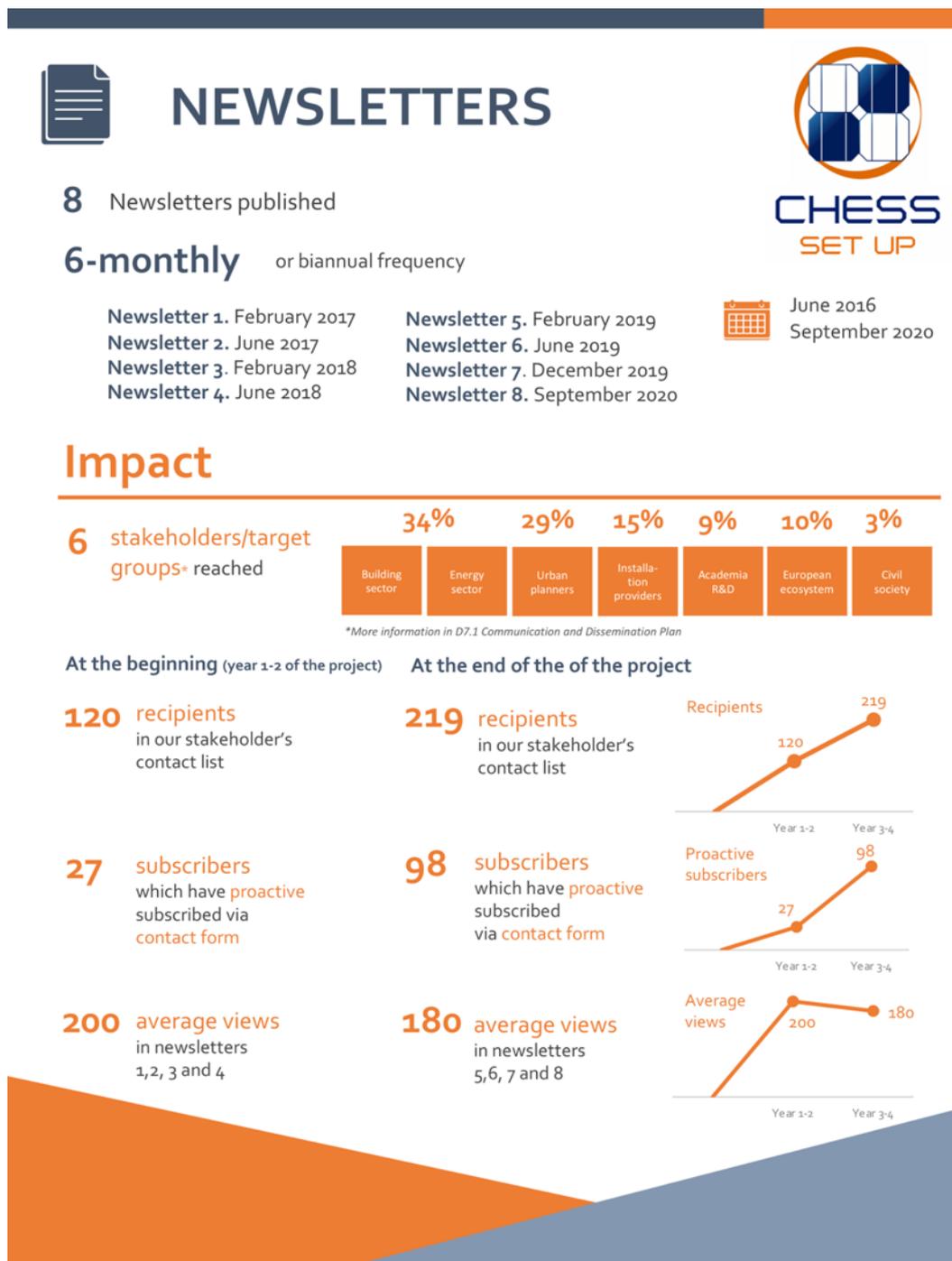
- **Type of channel:** for communication and dissemination of the project
NEWSLETTERS
- **General:** referring to the **input** indicators.
 1. Publication frequency
 2. Number of newsletters published
- **Echo:** referring to the **output** indicators which give the impact of the activity.
 3. Number of types of audience or stakeholders/target groups reached (following the ones in Figure 2) and %.
 4. Number of recipients (stakeholders' contact list)
 5. Number of subscribers (proactive subscription via contact form)
 6. Number of average views (popularity)





The Newsletters were launched through the **Email Marketing tool** available in CHESSE SETUP website software. This tool allows us to achieve the **impact metrics of the campaigns or Newsletters sent** to our subscriber's list, which is also saved in the tool and to the website administration panel.

In conclusion, in the following infographic (Figure 6) the **final results or impact indicators of CHESSE SETUP newsletters** are exposed (Last retrieved: September 2020):





*Figure 6. CHESS SETUP Newsletters Infographic with results and impact
(Source: Own elaboration)*





4. Annex: CHESSETUP complete Newsletters

Newsletter 1 (February 2017)



CHESSETUP: STEP 1

*Welcome to our 1st newsletter,
we wish you a pleasant reading*

You will receive this newsletter every 6 months. We will inform you about the project's achievements, and relevant news related to the Energy ecosystem.



The European project investigating **buildings' energy self-sufficiency**

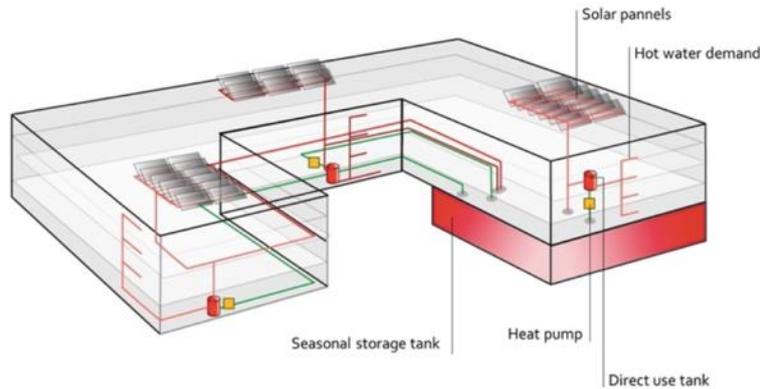


Funded by the **European Commission**

CHESSETUP (680556) contributes to the triple facet of the 2020 Program aiming to **cut Greenhouse Gas emissions** by 20%, improve **energy efficiency** by 20% and increase the share of **renewable sources** by 20%.



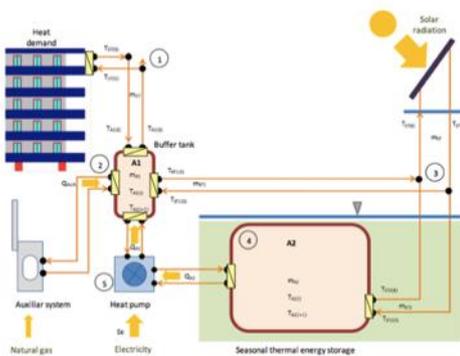
This project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under Grant Agreement No 680556.



The Project

Chess Setup is an implementation project combining various technologies: **energy storage, heat pumps, hybrid solar panels, monitorization systems, and smart grids.**

Main objective: supplying the most part of buildings' **heating and hot water consumption** needs from this system working on a **seasonal mode**. The implementation will be carried out in **Catalonia** and in **England**.



What would your system look like?

The **optimal technology combination** relies on each of the elements' sizing, but also on some **external variables** such as the geographical location. Thus, Chess Setup developed a public **simulation software** available [here](#).



Smart City Expo World Congress

Chess Setup was introduced on big screen during this major event gathering more than **16,000 professionals**. Some of the project members attended the presentation and were able to share opinions and experiences among themselves.



Project's progress

from the European Union's
vation Programme under



Chess Setup was launched 8 months ago, and all Work Packages have already begun their activities. All deliverables were sent on time, and some objectives were already achieved.

*"So the challenge for Government and regulators is to design a system that can both better **manage intermittency** and **take advantages of the innovations in storage, demand-side response, interconnection and IT** to create a truly **smart energy system**."*

UK Secretary of State for Business, Energy and Industrial Strategy; Energy UK Conference; November 11th, 2016

COP 22: an optimistic step towards Paris Agreement's implementation

The time has come to find solution to keep global warming **below a 1.5°C** increase. In Marrakech, the initiative also came from the 47 poorest countries: they decided to reach a **100% renewable energies goal** "as rapidly as possible".



Comparte vía:



<http://www.chess-setup.net> →





Newsletter 2 (June 2017)



CHESS SETUP: STEP 2

The pilots start to take shape on CHESS SETUP's first anniversary

Welcome to our 2nd newsletter, we wish you a pleasant Reading

The European project investigating **buildings' energy self-sufficiency**



3rd meeting in Belfast

The partners held a meeting in Belfast last May, to review the work carried out during the past six months.

Hosted by the **Ulster University**, they also could visit its on-site heat pump and thermal storage installations that could even constitute a 4th small-scale pilot!





The Pilots

Corby



In Corby, the 47 ecohomes' design has been defined to the smallest details. They will be characterized by their higher build quality, their ultra-low energy consumption, the use of solar hybrid photovoltaic and thermal panels and the Earth Energy Bank to store energy that will be used when required.

Sant Cugat

In Sant Cugat, the pilot will finally supply the swimming pool's energy needs. A technical feasibility check has been carried out to evaluate the roof's reinforcement needs. On the other hand, the public tendering procedure is being launched install the solar hybrid panels, the thermal storage tank and the monitoring system.



Lavola's headquarters

Impacts	CHES SETUP Solar Hybrid Panels	CHES SETUP 2.0 Photovoltaic Panels + Heat Pump
	---	+
	+	-
	+	++
	---	+++

In Manlleu, Chess Setup 2.0 came out: the solar hybrid panels will be replaced by photovoltaic ones (PV), and an air source heat pump (ASHP). The system has been optimized as the thermal energy produced by the hybrid panels would have mainly been lost due to the physical space limitations for the thermal storage tank and the lack of heating demand in summer in the existing office building. Thus, the thermal energy will be produced on demand by the ASHP when required to heat up the thermal storage. The electricity produced by the PV will be used to feed the ASHP and any excess during the year and especially in summer may be used to feed any other electric demands of the building.

Technical achievements

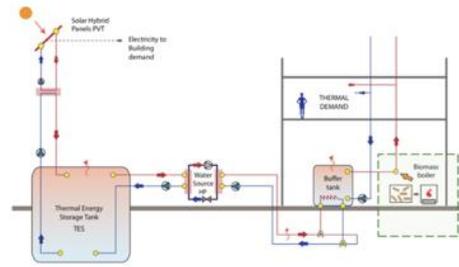


This project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under Grant Agreement No 680556.



Those steps forward on site were made achievable thanks to the previous work carried on by all the partners.

- Wattia Innova designed **Chess Setup monitoring system**. It will include an external variable interface, to provide data about the weather forecasts and electricity prices, at the basis of the system's optimization.
- Barcelona Ecologia studied the **integration of other energy sources and technologies**, and the energy and CO2 savings it would induce.
- Veolia evaluated the different **heat storage tank's construction techniques**, and the regulatory framework that would have to be applied in the United-Kingdom and in Spain.
- The University of Ulster is directly working on the **heat pumps' design** in each of the pilots.



CSU in Copenhagen

Chess Setup will be introduced at the “**3rd International Conference on Smart Energy Systems and 4th Generation District Heating**” in Copenhagen on September 12th and 13th. Barcelona Ecologia will represent the consortium, and speak about the project's concept and execution. You know where to find us!



"I call on you to remain confident, we will succeed, because we are fully committed. Because wherever we live, whoever we are, we all share the same responsibility to [make our planet great again](#)."
Emmanuel Macron, President of the French Republic

Self-consumption in Spain



This project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under Grant Agreement No 680556.



The 2015-royal ban prohibiting collective self-consumption in Spain has been lifted on May 25th! The regional governments will be free to regulate this market on their own. This opens up the possibility to develop common self-consumption installations for housings, districts, or any buildings willing to mutualize the energy produced on site, to consume it, to store the eventual surplus, or to revert it into the energy supplier's grid. The decision generated enthusiasm among citizens, local authorities and the energy sector.

Beyond the crucial lever it constitutes to the H2020 objectives' achievement, the National Federation of Electrical and Telecommunication installations' entrepreneurs (FENIE) had already [estimated the economic impact](#) it could have in Spain: more than 570 million euros between 2017 and 2020.



Comparte vía:



<http://www.chess-setup.net>





Newsletter 3 (February 2018)



CHESSETUP: STEP 3

CHESSETUP coming into tangible actions

Welcome to our 3rd newsletter, we wish you a pleasant Reading

The European project investigating **buildings' energy self-sufficiency**



CSU General Conference: thanks to all of you!

On November 15th was held CHESSETUP's General Conference at the Smart City Expo World Congress in Barcelona.

It was a great opportunity to disseminate the first project achievements in front of a more than 50-people audience. The pilots had also the chance to introduce themselves and contrast their first outcomes.

We would like to warmly thank the Provincial Government of Barcelona and Sant Cugat City Council for hosting us.





Visit of "Ecoedifici"

The consortium gathered and worked during one day at Lavola's pilot located in Manlleu where was hold the 4th CHESSETUP meeting. The company introduced its plans to accommodate their new PV panels on their headquarters' (named Ecoedifici) rooftop.

Another element of the installation, the compressor from the heat pump, was just arriving from Ulster University, and will be added to the whole system soon.



Other pilots translated into concrete actions

Sant Cugat City Council succeeded in finalising an installation suitable to its sport center. Bound by public tendering processes, works must end by November 2018.

In Corby, work is about to start, and the first ecohomes must be built by Spring 2018.



CSU at NZEB Congress

On December 13th and 14th will be held the Spanish Near Zero Emission Building Congress (EECN in Spanish) in Madrid. The fair highlights initiatives reducing energy



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needs, and upgrading health and comfort levels in the building sector. Since public buildings must meet NZEB requirements by 2018, and by 2020 for all new buildings, the theme is quite a key theme!

CHESSE SETUP project has been selected through the call for abstract, and you will find its concept and first achievements in the Book of abstract.

One planet Summit

Two years after COP21, Paris hosts another world event dedicated to finding concrete solutions to “make our planet great again”. The credo? There is no plan(et) B! The event focuses on tangible actions: how to finance climate action, how to green finance, how to accelerate local action, etc. Heads of State, officials, but also citizens and companies are invited at this meeting organized by France, the UN and the World Bank Group.

Towards energy emission targets more ambitious?

The European Parliament proposed in a resolution to rise energy consumption reduction objectives from 30% to 40% by 2030. MEPs also agreed a minimum of 35% of all energy consumed in the EU would need to come from renewable sources.

Click [here](#) for more info.

"54 million Europeans cannot afford to heat their homes in winter and about the same number are either facing energy debts or living in deteriorated dwellings."

[BUILD-UP](#), The European portal for Energy Efficiency in Buildings

Comparte via:



<http://www.chess-setup.net>





Newsletter 4 (June 2018)



CHESSE SETUP: STEP 4

CHESSE SETUP Getting bigger and brighter

Welcome to our 4th newsletter, we wish you a pleasant Reading

The European project investigating **buildings' energy self-sufficiency**

CHESSE SETUP on its team





Revision meeting at the EC in Brussels

The partners gathered in Brussels last March to review the work carried out during the past 21 months. The project is still moving forward, all three pilots are being built under the requirements of CHESSE SETUP's partners from Corby (UK), to Sant Cugat del Vallès and Manlleu (Spain).

Considering the limitations of the pilots in practice, the possibilities of optimizing the CHESSE SETUP system for each scenario are considered and analyzed in more detail.

CHESSE SETUP on site

Corby finally springing up

As expected, the work started in Corby: the first plot foundations were marked for concrete and Earth Energy Bank (to store energy and adapt its usage to the demand) paving the way for the future 47 ecohomes.



Other pilots also moving forward

Sant Cugat

In the Spanish sport centre, the tendering procedure is ongoing: the administrative process was successfully completed, the construction company was chosen and the scheduled work will soon be defined. The construction process should certainly start in the coming month.

Lavola's headquarters

In Manlleu, facing the practical limitations, the CHESSE 3.0 was finally retained as final scheme and is currently implemented. After replacing the solar hybrid panels by photovoltaic ones from CHESSE 1.0 to CHESSE 2.0, CHESSE 3.0 replaced the water tanks by energy storage in mortar slabs.





CHESSE SETUP online



First Webinar proudly and successfully managed

Our first Webinar on Energy Retrofitting took place on June 20th. It reminded the latest progresses of CHESSE SETUP and introduced three other educative experiences to learn and discuss the best practices towards energy sufficiency. We thank again our counterparts from THERMOS, OptEEmAL and TESSe2b projects for their enriching presentations that you can discover [here](#).

A brand-new LinkedIn page

All the team is also very proud to introduce its newly created [LinkedIn page](#) which aim is to offer an always more exhaustive view of the promising advances of CHESSE SETUP. Do not hesitate to subscribe to the latest news.



"One of the things that can be done to boost energy efficiency is creating awareness and realising that reducing energy use will have multiple benefits, such as lower cost of the energy transition, reduced energy bills for the most vulnerable, a more lenient and competitive EU economy, higher quality of life and cleaner air and environment."

[Mechthild Wörsdörfer](#), Director in charge of renewables, research and innovation, energy efficiency, DG Energy, European Commission





And what else on the European energy efficiency scene?



International Conference on Renewable Energy

On April 25-27, the ICREN 2018 gathered, in Barcelona (Spain), researchers of the Renewable Energy field from 41 countries to have a global overview of the latest progress towards a better future. CHESSE SETUP was there, represented by the Sant Cugat City Council.



IV Congreso Ciudades Inteligentes

Madrid welcomed the fourth CongresoCI last May 30-31 to assemble the whole smart cities' Spanish community. It showed, once again, the Spanish commitment to implementing and spreading the good practices in terms of smart cities' and buildings' solutions for reducing energy consumption.



41ST IAEE
INTERNATIONAL
CONFERENCE
GRONINGEN 2018

IAEE International Conference

The 41st International Association for Energy Economics (IAEE) International Conference also took place from June 10 to 13 in Groningen (the Netherlands). Academics, policy makers, consultants, and representatives from energy businesses had the chance to share and discuss today's energy question in the world.



IV CONGRESO
EDIFICIOS INTELIGENTES
Madrid 19 Junio 2018

IV Congreso Edificios Inteligentes

Last June's CongresoEI was another occasion to prove Spain's leadership in promoting and setting up promising projects in the building sector for energy self-sufficiency. It was held in Madrid and brought together the most important actors of the field to have a look at the future and opportunities of Smart Buildings.





**SUSTAINABLE
ENERGY WEEK
04-08 JUNE 2018**

An initiative of the  European Commission



Sustainable Energy Week

The theme of this year's EUSEW is "Lead the clean energy transition". It was held in early June in Brussels to offer innovative ideas towards energy transition to new EU Member States and discuss the current issues related to the topic.



Comparte vía:



A new EC regulation for Energy Performance in Buildings in July?

The revised Energy Performance of Buildings Directive will enter into force as of 9 July 2018. It has huge potential for efficiency gains in the EU building sector and includes measures that will accelerate the rate of building renovation and smarter new buildings.

Click [here](#) for more info.

ABOUT THE PROJECT

For more information about the project, you can find us on,

- Our [webpage](#)
- Our Twitter account [@ChessSetup](#)
- Our [LinkedIn](#) page

<http://www.chess-setup.net> 





Newsletter 5 (February 2019)



CHESS SETUP: STEP 5

We wish you a happy efficient 2019

Welcome to our 5th newsletter, we wish you a pleasant Reading

The European project investigating **buildings' energy self-sufficiency**



5th CHESS SETUP meeting in Sant Cugat

CHESS SETUP partners gathered in Sant Cugat this December to present the work done during this last year, the advances in the three pilots, and the next steps planned. Furthermore, taking advantage of the organized meeting, the partners visited the works in execution. In this visit, Sant Cugat explained the status of the pilot and its development.



This project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under Grant Agreement No 680556.



CHES SETUP pilots

Lavola's headquarters

In Manlleu, CHES SETUP system is being installed. During these last few months, the existing photovoltaic panels (PV) have been relocated and the new PV panels installed. Furthermore, the hydraulic system and the concrete foundation are prepared for the heat pump implementation. During the following weeks, the installation of the heat pump and the implementation of the monitoring and control system will take place.



Sant Cugat

In the Spanish sport centre, the construction phase began in September 2018; the works are being executed as scheduled and are planned to finish during the first week of March 2019. The last milestones achieved were the installation of the 160 PV-T panels and the reinforcement of the pavement where the thermal energy storage tank (TEST) will be installed

Corby

At the end of December 2018, the drainage and the rear access road of the block properties have been built, the installation of boreholes for the Earth Energy Bank (EBB) and the foundations for the first 4 homes.

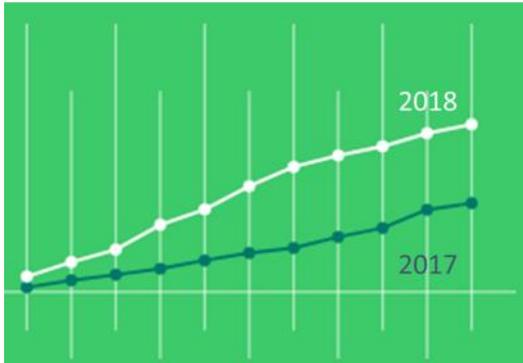
In January 2019, the block and beam flooring are going to be installed in order to erect the panelized wall system. Also, will be made the foundations for the next set of new homes.





Online & Offline

Website cumulative number of visitors

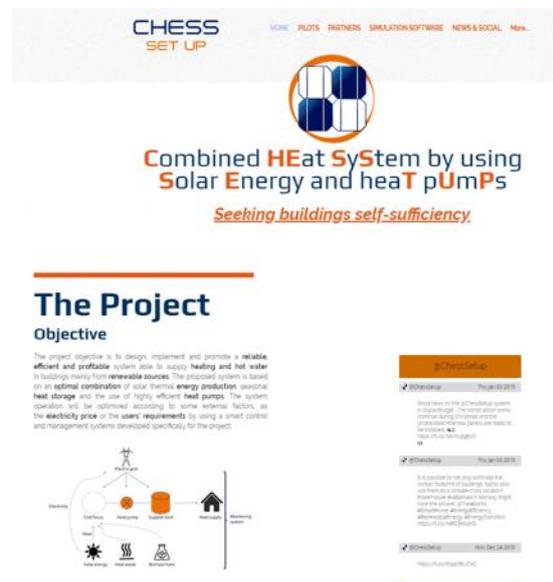


Website updated

Recently, the project's website has been deeply updated in order to target the visitors. The content and info on the project have been also updated according to the last advances and news of the pilots. Lastly, a new section has been added to the Home page, which shows the real-time activity of the CHESSETUP Twitter page.

A year of incredible growth

2018 has been a year of huge impact and growth for our online communication tools. The number of CHESSETUP website's visitors has increased by 90% compared to the previous year. In addition, our Twitter account has almost doubled the number of followers during this year, achieving 270 followers.



Events and Conferences

During the year 2018, CHESSETUP partners participated in more than 30 events, conferences and congresses. They introduced the project and its objectives, "the design and implementation of an efficient system able to supply heating and hot water in buildings from renewable sources" and spread the importance of working towards a sustainable society, achieving buildings self-sufficiency.

"To meet our climate goals, buildings need to use less energy and





simultaneously enable a low-carbon grid by avoiding high and erratic peak energy demands. Why? Because buildings are the linchpin to a decarbonized grid – and the grid is only as green as buildings enable it to be."

Cara Carmichael, Rocky Mountain Institute

In the last months...



Smart City Expo World Congress 2018

On November 13th to 15th, the SCEWC 2018 gathered, in Barcelona (Spain), institutions, experts and high representatives of cities all around the world to discuss smart city sectors and urban innovations towards social and environmental sustainability. CHESSETUP was there, represented by various partners.

Coming soon...



Horizon 2020 Energy Efficiency info day

The event will take place on Tuesday 22 January 2019 at Charlemagne building, in Brussels. Energy efficiency topics of the 2019 call of Horizon 2020 Societal Challenge 3 – Clean, Secure and Efficient Energy – will be presented in a series of workshops organised by EASME throughout the day. The aim of



CONAMA 2018

Madrid welcomed the 14th edition of the Environmental National Congress, CONAMA 2018, from 26th to 29th of November. It has become the environmental event of reference in Spain for the content quality, the high level of participation and the variety of professional profiles and environmental sectors represented.



International Conference on Renewable Energy ICREN 2019

The next in the series of the International Conference on Renewable Energy is the ICREN2019 focusing on international participation including experienced and young researchers with interest in renewable energy studies.

The conference will be held at the UNESCO Headquarters in Paris, France





Deliverable 7.4

the Horizon 2020 Energy Efficiency Info Day is to present funding opportunities under the 2019 call, to attract new applicants and potential beneficiaries, and to foster networking between participants.

providing an unsurpassed venue to nurture debate in this globally important area. ICREN2019 will include articles and presentation on the latest research on renewable energy technologies, grid interactions, energy efficiency, data analytics, economics and finance, environmental and social impact as well as policy and climate change implications.



ABOUT THE PROJECT

For more information about the project, you can find us on,

Our [webpage](#), Our Twitter account [@ChessSetup](#), Our [LinkedIn](#) page

Comparte vía:



<http://www.chess-setup.net>



This project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under Grant Agreement No 680556.



CHESS SETUP: STEP 6

3rd anniversary of the project

Welcome to our 6th newsletter, we wish you a pleasant reading

The European project investigating **buildings'**
energy self-sufficiency



6th CHESS SETUP meeting in Corby

On the 30th of May of this year, the 6th Consortium Meeting was held in Corby, England. It was the opportunity for every partner to effectively communicate to all the partners about the advances done and next steps of the project. All the works conducted are advancing fast and the 3 pilots are nearly finished! The





meeting ended with a site visit of Corby's pilot, to see in real all the achievements done.

CHESSE SETUP pilots



Sant Cugat's sport centre (Spain)

In Sant Cugat's pilot, the construction phase is about to end! Only final details remain. Since the last general meeting, the major works have concerned the roof reinforcement and panels structure, the hydraulic, electrical and monitoring installation and finally the redesign, manufacture and construction of the thermal energy storage tank (TEST).

The last remaining phase (Start-up and monitoring) has already begun!

Sant Cugat pilot



Lavola's headquarters (Spain)

Based in Manlleu, Lavola's headquarters have experienced during the last year a significant reduction of energy costs and emissions, thanks to the CHESSE SETUP's Solution: the total energy savings nearly reach 50%!

Now the finishing phase of the pilot is about to begin: the system will be on service by the end of the month, thanks to the works carried out in May 2019, mainly the heat pump installation, auxiliary control elements and board implementation.

Lavola pilot





Corby's dwellings (England)

After the considerable delays previously reported, construction of the Corby pilot re-started in November 2018 and since then, a lot of advances have been made! The Earth Energy Banks has been completed for the first 10 homes, the installation of PVT is nearly complete on some homes too and the Heat Pumps installations are finalised. Some steps remain before finishing the construction of the 26 homes.



Corby pilot

Online & Offline



Our Twitter account keeps on getting more visibility

As we enter the final phase of the project, CHESS SETUP (CSU) has never been that popular online. More than 930 tweets have been written since the creation and the page, and we have gained more than 300 followers.

News about the project, articles in relation with the CSU solution and interesting events are shared almost everyday.





Website and LinkedIn page updated

The pilots' sections of the Website is regularly updated as the works continue. All the new documentation is also added to the Website: now you can find newly videos showing the state of the 3 pilots and our 2nd Divulgation Article, published in the Spanish magazine "Energías Renovables".

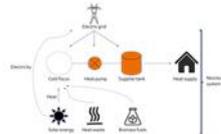
On a professional side, our LinkedIn page is also more visible with nearly 200 visitors and 30 followers during the last year.



The Project

Objective

The project objective is to design, implement and promote a **reliable, efficient and profitable** system able to supply **heating and hot water** in buildings mainly from **renewable sources**. The proposed system is based on an **optimal combination** of solar thermal energy production, seasonal **heat storage** and the use of highly efficient **heat pumps**. The system operation will be optimized according to some external factors, as the **electricity price** or the **users' requirements** by using a smart control and management systems developed specifically for the project.



Events and Conferences

CHESS SETUP partners keep up the momentum to represent the project in international events and conferences. Indeed they have participated to more than 15 events in the last 6 months, from conferences to summits and congresses.

Abstracts are also sent to international events organizations to have the opportunity to make people know more about CHESS SETUP's project.



"Energy efficiency measures are to play a central role in reaching net-zero greenhouse emissions by 2050, halving energy consumption compared to 2005, in all relevant sectors, in particular in buildings industry and transport."

Kamila Waciega, Energy, Public Affairs Department, Veolia

In the last months...



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ICREN 2019

On April 2019 the ICREN was held in the UNESCO headquarters in Paris.

International Conference on Renewable Energy series addresses research and development in renewable energy technologies including energy efficiency. ICREN2019 has included articles and presentation on the latest research on renewable energy technologies, grid interactions, energy efficiency, data analytics, economics and finance, environmental and social impact as well as policy and climate change implications.

CHESSE SETUP was there and presented the project to the audience!

CTEC - Energy Transition and the City Congress

On March 6th Barcelona held the CTEC. One of our partners was here to represent CHESSE SETUP and collect relevant information in relation with the project.

The CTEC aims at highlighting the role of cities in promoting energy transition and sovereignty.

The CTEC also seeks to generate a debate around the city-energy pairing between all the stakeholders involved: citizens and civil society, the cities' political and technical representatives, the public authorities, academia, the business sector and so on.

Coming soon...



Sustainable Energy Week 2019

The 2019 session of the Sustainable Energy Week is organized between the 17th and the 21st of June 2019. Conferences, award competition, debates and many events will be held around the topic of

Support Service for Exploitation of Research Results

In the following weeks we will receive the support of SSER (Support Service for Exploitation of Research Results). The European Union has selected CHESSE SETUP's project as an ideal one for completed and ongoing





Deliverable 7.4

Sustainable Energy.

All these events cover a lot of different aspects of Sustainable Energies such as Innovative Mobility Solutions, Sustainable Finance or Carbonfuels. The main conference is held in Brussels and

gathers a lot of stakeholders from all the European Union.

Click [here](#) for more info



research projects in the field of energy. The purpose of the service is to help CSU to exploit the results of our work in order to achieve the intended mid to long term impacts, especially with the Business Model part of the project. Looking forward to it!

Click [here](#) for more info.

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Newsletter 7 (December 2019)



CHESSE SET UP

The positive effects of the CHESSE SET UP solution are starting to show!

Welcome to our 7th newsletter, we wish you a pleasant reading and we take the opportunity to wish you all a merry Christmas and a happy winter holidays!



The European project investigating **buildings' energy self-sufficiency**



This project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under Grant Agreement No 680556.

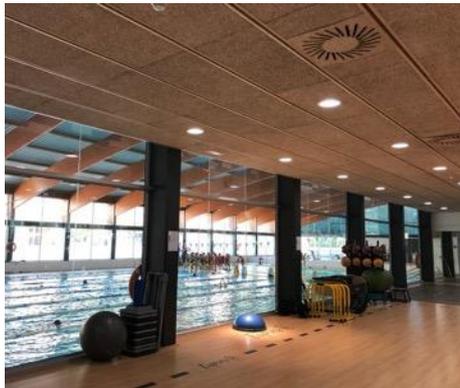


7th CHESSE SETUP Consortium meeting and SSEER Seminar in

Sant Cugat, Barcelona

On the 15th and 16th of October of this year 2019, the 7th Consortium Meeting and Exploitation Strategy Seminar (ESS) were held in Sant Cugat, Barcelona (Spain). It was an opportunity for every CHESSE SETUP project partner to effectively communicate to all the consortium about the advances done and next steps of the project. All the works conducted are advancing fast and the 3 pilots are already installed and working! The first day the meeting ended with a site visit of Sant Cugat's pilot, and all the partners were able to see the implemented CHESSE SETUP system totally working in the sport center, including the swimming pools. The second day the consortium celebrated the ESS. The European Union selected CHESSE SETUP's project as an ideal one for completed and ongoing research projects in the field of energy. The seminar helped CHESSE SETUP to exploit the results of its work in order to achieve the intended mid to long term impacts, especially with the Business Model part of the project.

CHESSE SETUP pilots



Sant Cugat's sport centre (Spain)

In Sant Cugat's pilot, the construction phase ended and the hydraulic and electrical monitoring installation is done.

The start-up phase is going on and the system is already generating energy (thermal and electric), storing thermal energy in the tank and heating the swimming pool. The monitoring software is starting to show its



Lavola's headquarters (Spain)

Based in Manlleu, Lavola's headquarters has experienced during the last year a significant reduction of energy costs and emissions, thanks to CHESSE SETUP.

The system has been fully on service since the end of June 2019, and we can start to see the first positive effects of CHESSE SETUP solution: the energy savings nearly reach 26%, and considering only the heating system there is a 42% savings.





benefits, for example, energy and economy savings were around 2500 kWh and 115€ per day in October. As the system did not start working until September, it has not had a great amount of energy during the summer, and therefore the overall energy contribution until today is low. When we have the full-cycle summer-winter, we will be able to know the real operation benefits of the system.

Lavola pilot

Sant Cugat pilot



Corby's dwellings (England)

After the considerable delays previously reported, construction of the Corby pilot re-started in November 2018 and since then, a lot of advances have been made!

The Earth Energy Bank has finally been completed for the first 10 homes, the photovoltaic panels have been fully installed on the first set of homes as well, and the heat pump installation is completed. The first homes will be inhabited in January 2020. Since then, actual system operation data will be available.

Corby pilot





Online & Offline

Our **Twitter** account keeps on getting more visibility



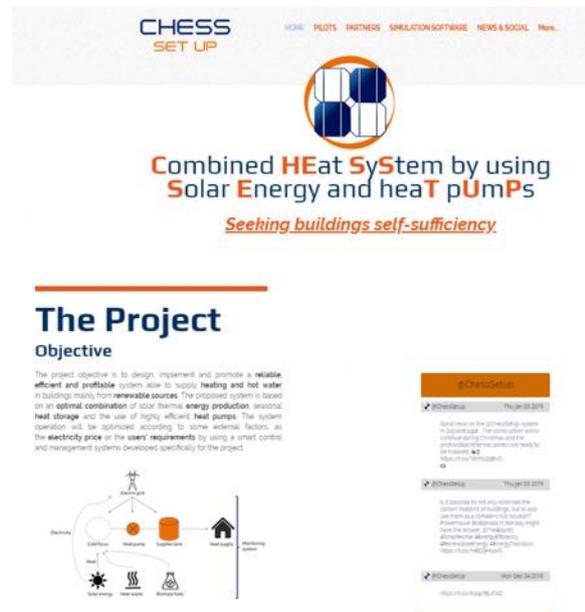
As we enter the final phase of the project, CHESS SETUP (CSU) has never been that popular online. More than 990 tweets have been written since the creation and the page, and we have gained more than 345 followers.

News about the project, articles in relation with the CSU solution and interesting events are shared almost everyday!

Website and LinkedIn page updated

The pilots' sections of the Website is regularly updated as the works continue. All the new documentation is also added to the Website: now you can find newly videos showing the 7th Meeting in Sant Cugat, new photos of the pilots and a new area with our Sister Projects: CHESS SETUP is related to other EU funded projects focusing on seeking energy efficiency and self-sufficiency in buildings. We cross-promote and disseminate our projects and actions together.

On a professional side, our LinkedIn page is also more visible with nearly 200 visitors and 45 followers during the last year.





Webinar: An innovative approach to Thermal Energy Storage and Self-Sufficiency in Buildings

WHEN? 19 December 2019
11:00am-12:30pm (CET)

In this webinar you will learn about the CHESSE SETUP, a reliable, efficient and profitable system able to store and supply heating and hot water in buildings mainly from renewable sources. Then, ReLATED, SUNHORIZON and HYBUILD EU projects will also present their project and solutions regarding thermal energy storage, energy-efficiency and self-sufficiency of buildings. At the end, you can participate in a Q/A debate part and know more about the topic and the projects presented.

Organised by



With special collaboration from





Time (CET)	AGENDA
11:00-11:05h	Welcome to the webinar
11:05-11:20h	CHESSE SETUP approach to Thermal Energy Storage and Self-Sufficiency in Buildings
11:20 - 11:35h	ReLATED approach
11:35- 11:50h	SUNHORIZON approach
11:50 - 12:05h	HYBUILD approach
12:05 - 12:30h	Q/A and debate

CHESSE SETUP 2nd WEBINAR

On Thursday 19th of December 2019, CHESSE SETUP project organized and hosted a public webinar called "An innovative approach to Thermal Energy Storage and Self-Sufficiency in Buildings".

This webinar has allowed the attendees to learn about the CHESSE SETUP solution, results and its approach to Thermal Energy Storage and Self-sufficiency in buildings. Then, ReLATED, SUNHORIZON and HYBUILD EU projects, as guest speakers, presented their projects and approaches. At the end, a very interesting Q/A debate part was held.

In conclusion, the webinar evaluations were very good and it allowed the participants to know more about the topic, and disseminate the projects around attendees from Europe (Spain, Germany, England, Italy, Netherlands, Albania, Poland...) as well as internationally, such as USA.

"The main challenge for Thermal Energy Storage is to give 100% self-sufficiency". Arnau Alarcón Costa, *Barcelona Ecologia, Project Leader of CHESSE SETUP EU H2020 funded project*

In the last months...

Exploitation Strategy Seminar (ESS)

On 16th of October, CHESSE SETUP partners participated in an Exploitation Strategy Seminar (ESS) organized by SSERR (Support Services for Exploitation of Research Results). The ESS is an instrument to support partners of a research project to consider the potential of project results and their exploitation routes. The seminar was very profitable and helped CHESSE SETUP consortium to brainstorm on how the project should address exploitation opportunities, to identify non-technical factors which could cause risks and potential obstacles that the future results of the project would remain unexploited, and to enhance the team's awareness of intellectual property rights (IPRs).





CHESS SETUP will take into account all the learnings and recommendations for its exploitation phase and business model!



Coming next year...



EU Sustainable Energy Week

The Policy Conference is the biggest European conference dedicated to renewables and efficient energy use in Europe. Sessions organised by the European Commission and energy stakeholders focus on sustainable energy issues, debate new policy developments, best practices and sustainable energy ideas. The Policy Conference of EUSEW 2020 will take place from 23 to 25 June 2020 in Brussels.

[#EUSEW2020](#) Awards are



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Deliverable 7.4

HERE!

Is [#sustainableenergy](#) close to your heart? Could your actions be an inspiration to others? We want to recognise YOU! Apply for the EU Sustainable Energy Awards!

Submit your application until 27 January 2020!

Click [here](#) for more info.



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Newsletter 8 (September 2020)

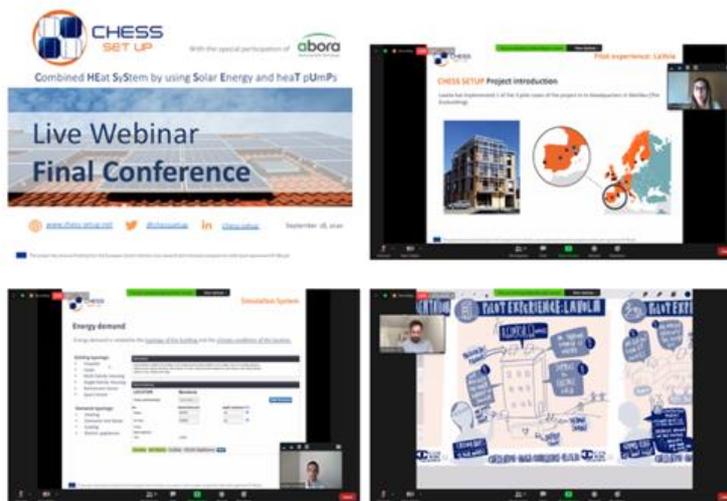


Welcome to our **8th and last newsletter** of CHESS SETUP EU H2020 project! After 4 years, this September 2020 it's coming to its end! However, as the title says 'it's a see you later', because we plan to further exploit the key results and you are always welcome to visit the website and contact us if you are interested in the system.

We wish you a pleasant reading and keep in touch!

The European project which has investigated **buildings' energy self-sufficiency**

CHESS SETUP Closing Conference



On September 18th 2020, we successfully celebrated the Virtual Final Conference of CHESS SETUP. The plan was to held a physical final conference meeting, but due to COVID19 situation all around Europe, the Consortium opted finally for an online conference/live webinar. All the partners had an active role and presented to all the participants (more than 50 people!) the outcomes of the project, the key exploitation results and the transferability of the system towards Nearly Zero Energy Buildings with its innovative approach to thermal energy storage, energy efficiency and self-



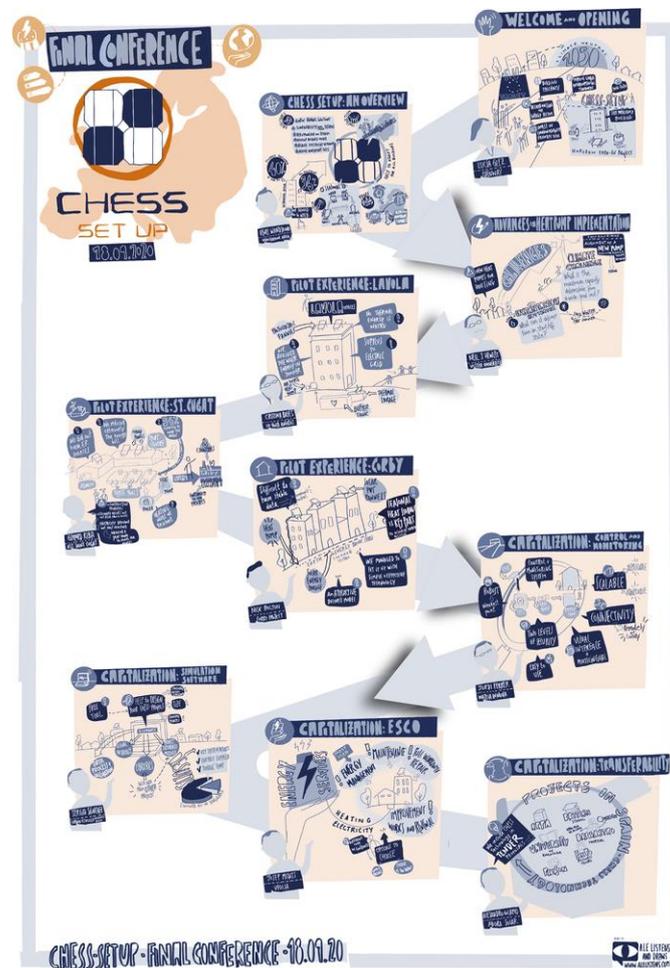


sufficiency, including Q/A (you can read the Q/A collection report [here](#)). We also had a very special guest speaker (Alejandro del Amo, CEO from Abora Solar) who presented the system transferability and the viability of adoption to other real cases. Finally, a visual interpretation of the event was done by Ale Listen & Draws. It provided added-value and new genuine material for divulgation to a large audience and not only to the scientific and most technical community. You can see all the great materials [here](#) in our website.

If you could not attend the event or wish to visualize it again, you can watch the full recording on Youtube [here](#) and the live-stream [here](#).

You can also download the support presentation with all our speakers' intervention in the Events page in our [website](#).

Thank you very much to all the partners, speakers and participants who made this Final Conference a great success!





CHESSE SETUP pilot' results



Sant Cugat's sport centre (Spain)

The CHESSE SETUP system implemented in Sant Cugat's is a prototype for a Sports Centre building.

The system represents a reduction of 8,3% of the total energy consumption, and a reduction of 9,7% of the greenhouse gases emissions (61,1 tCO₂/yr).



Lavola's headquarters (Spain)

The CHESSE SETUP system implemented in Lavola's Ecobuilding is a small scale prototype for an office building.

The system represents a reduction of 47% of the total energy consumption, and a reduction of 65% of the greenhouse gases emissions (18,8 tCO₂/yr).



Corby's dwellings (England)

The CHESSE SETUP system implemented in Corby is a prototype for a residential building, replicated in 26 different homes.

The system represents a reduction of 45,6% of the total energy consumption, and a reduction of 85,2% of the greenhouse gases emissions (1,8 tCO₂/yr).



Due to the confinement, the moves of the new inhabitants have been delayed. Furthermore, in the case of already inhabited dwellings, given that most of the inhabitants are teleworking, the buildings currently do not function as they were initially expected. Thus, this COVID-19 pandemic period

also affected the operation of the system, increasing heating demand and DHW consumption. However, once we hit the new normal, some of the next steps have already been identified to further improve energy efficiency and cost savings as follows:

- Revise the operation schedules for the new normal according the building capacity, the comfort temperatures and the operating hours of the users.
- Optimize the heap pump shut down to reduce the peak consumption.

Conclusions





CHESSE SETUP can allow **significant energy savings for buildings**: the energy produced on-site will be consumed on site or reverted to the power grid if necessary.

CHESSE SETUP makes the **energetic needs of the buildings residual**, thanks to the use of renewable energy collected and transformed on site. This means a **decrease in GHG emissions** and an **improvement in energy efficiency**, aligned with the **EU Goals**.

CHESSE SETUP is an **economically exploitable model**. Being a centralised system it also reduces maintenance costs and energy losses. Both the pilot sites implementation have shown that is a **suitable technical and environmental solution, as well as economically viable**. Strategic alliances with manufacturers, suppliers, engineering companies and interested parties could open the range of opportunities to replicate the CHESSE SETUP model, reducing costs and scaling the implementation of the system.

CHESSE SETUP brings **key solutions for our future**: a self-consumption system that could drive us towards NZEB, energy independence, a higher productivity of the grids and a low-carbon society.

Online & Offline

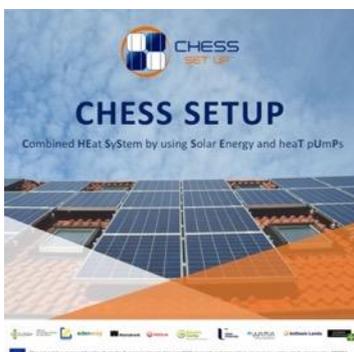


Thanks for following and interacting with us in **Twitter and LinkedIn!**

In this final phase of the project, CHESSE SETUP (CSU) has never been that popular online! We reached more than 400 followers in Twitter and a lot of interaction was made every week. Have a look and follow us [here!](#)

On a professional side, our LinkedIn page is also more visible with nearly 200 visitors and 76 followers during the last year. Follow us and stay up to date [here!](#)

The project in a glance!



Have a look and download our **CHESSE SETUP Final Brochure**

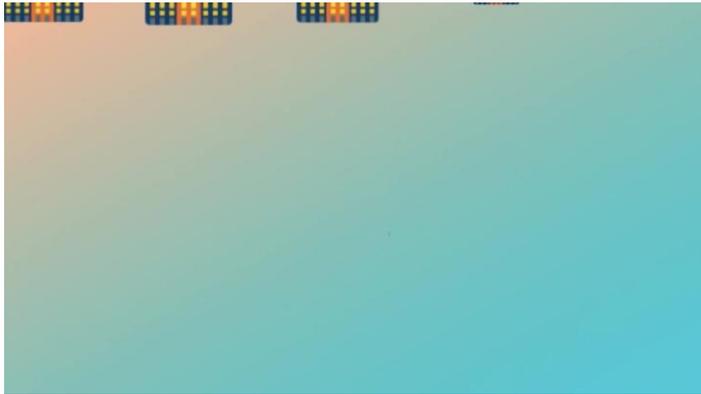
It is designed to provide a completer and concise overview of CHESSE SETUP project and system, adding the final results, outcomes and conclusions at the end of the project.

Available here in [English](#), [Spanish](#) and [French](#).

Besides, we also present you the **Final Video of CHESSE SETUP**. Watch it [below!](#)



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Next steps and new collaboration

Can CHESSE SETUP system be replicable or scalable? And expandable?



Yes, of course! Real examples of transferability and adoption of the concept and system to other cases were explained during our Final Conference, by our guest speaker coming from Abora Solar company. Have a look at the examples in the Final Conference presentation [here](#) (slide 123).

Furthermore, all the project partners have designed a **Key Exploitation Plan and joint exploitation strategies** to realize the potential market opportunities identified in the market analysis.



Finally, good news! CHESSE SETUP through Sant Cugat pilot will be expandable and will collaborate with [InteGRIDy](#) H2020 project. Thanks to this project, several interesting energy saving measures will be implemented in this centre, including new monitoring equipment to enhance the existing energy management system. Smart tools will be developed on the specific site of high energy demand, in order to carry out Demand Response optimisation. Alongside, additional storage solutions (thermal) or (electrical) the use of distributed Li-Ion batteries will be addressed along with the analysis of the capability of distributed end-user energy storage facilities to help the grid penetration of RES. Such a solution can be replicated in any open public high energy consuming building.

KEEP IN TOUCH!

If you want to know more about the project, the system or interested in its installation, exploitation or collaboration, do not hesitate to contact us. **You can reach us via:**





Deliverable 7.4



- Our [webpage](#)
- Our email chess.setup@gmail.com
- Our Twitter account [@ChessSetup](#)
- Our [LinkedIn](#) page

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