



Newsletter

Our **Latest news** and **Top stories** to share with you

Dear ASTEP reader,

We are delighted to publish the second ASTEP newsletter.

The scope of the newsletter is to provide regular updates on project progress and inform you about highlights as well as ASTEP and other relevant events. It is envisioned to have two e-newsletters per year.

In this second issue you will be able to find out more about the:

- the first year of ASTEP implementation and progress;
- the projects participation in EnerStock 2021 Conference;
- the ASTEP presence at the solar thermal industry;
- an exclusive interview with Prof. David Reay, the Scientific and Innovation Manager of ASTEP;
- ongoing Actions
- the Consortium

If you wish to find out more ASTEP news and cannot wait for the next newsletter, visit ASTEP website [here](#)

Have a nice summer!

Happy reading and stay safe.

Author: *Gianna Avgousti (EBOS), Cyprus*

Events



The ASTEP project completes its first year of implementation and all partners attended the General Assembly on the 18th and 19th of May 2021 via teleconference. The meeting marked the first anniversary of the project and was hosted by the project Coordinator, Dr. Antonio Rovira representing the National University of Distance Education of Madrid, Spain (UNED).

The primary focus of the discussions was to review the progress and project developments over its 1st year of implementation.

[Learn more here](#)

News

ANALISIS-DSC presented the ASTEP project in the EnerStock 2021 Conference

The 15th International Conference on Energy Storage [ENERSTOCK2021](#), was held online, from 9 to 11 June 2021 and was hosted by the University of Ljubljana - Faculty of Mechanical Engineering and the National Institute of Chemistry, Slovenia.

Juan Enriquez, CEO of ANALISIS-DSC, as a partner of the H2020 ASTEP project made an oral poster presentation on EnerStock 2021 Conference held online, describing the

challenges and innovations in the awarded ASTEP project including innovative technologies for Solar Heat Industrial Process (SHIP).

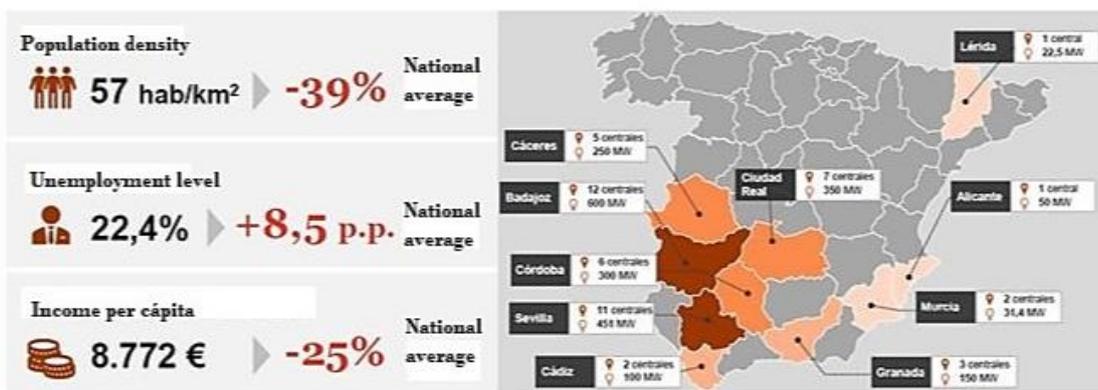
Read the full extract and check out the poster here

The solar thermal industry as an economic engine in Spain

On June 15th, there was a presentation of the report "The solar thermal industry as an economic engine in Spain", prepared by PwC for Protermosolar, which discussed the potential of solar thermal technology in the context of the European Recovery and Resilience Plan and the objectives of the National Integrated Energy and Climate Plan (PNIEC) 2021-2030.



Location of solar thermal plants in Spain



Read more here

The Scientific and Innovation manager of the Consortium



Prof. Reay is part of the Management Support Team (MST) of ASTEP project, and is currently the **Scientific and Innovation manager** of the Consortium, as well as leading WP7, the site demonstrations.

Prof. Reay has a vast and awarded research trajectory within the fields of heat transfer, compact and intensified heat exchangers, heat pipes & thermosyphons, heat pumps, process integration and intensification, industrial energy efficiency, renewable energy and thermal storage.

Could you think of a brief summary about the ASTEP project for a non-academic audience, a take-home message?

"In common with engineering initiatives in most areas, an essential take-home message is that success depends upon competent and comprehensive design, manufacture, testing, integration and on-site proving of the technologies. Also, pay attention to the 'standard' components as well as the innovative ones! Either can fail! ASTEP intends to satisfy these criteria"

What are the challenges in this field? What will be the contribution of the ASTEP project?

"A principal challenge, as with perhaps most renewable energy projects applied to the process industries, is guaranteeing continuity of energy (in our case heat) supply. Many processes are non-seasonal and some require 24h/day operation. Both examples in ASTEP, a dairy and a steel tube manufacturer exhibit at least one of these

characteristics. So particularly with solar energy sources, a necessity for cost-effective heat storage is evident – this being a major challenge in its own right! ..."

Read the full interview here

Ongoing Actions

ASTEP Case Studies:

2 Case Studies to demonstrate and validate the ASTEP solution for a substantial part of the potential requirements of industrial heating and cooling demand of the European Union (EU28), which is estimated at approximately 72 TWh per year.

Case study 1: Mandrekas

Case study 2: ArcelorMittal

Why do we need these case studies? What are our next steps and the expected outcome?

Keep Track!

The Consortium



UNIVERSIDAD NACIONAL EDUCACION A DISTANCIA, SPAIN

The UNED-STEM (Thermal Systems, Energy and Environment) research group was created in 2007, within the Energy Engineering Department at UNED (National Distance Education University, Madrid, Spain).

This group has focused its investigations in the fields of optimisation and management of thermal and thermoelectric systems, in particular, solar thermal plants. UNED is the Project Coordinating entity from the Consortium.



POLITÉCNICA

UNIVERSIDAD POLITECNICA DE MADRID (UPM)

Universidad Politécnica de Madrid (UPM) is the largest Spanish technological university specialized in all engineering fields and architecture. With two recognitions as Campus of International Excellence, its outstanding research activity together with its highly qualified professional trainings, make UPM a really competitive university at international level, with the expertise on solar collectors and solar systems in general.

Meet the rest of the team here

We hope you enjoyed this edition of the ASTEP Newsletter.
Keep in touch for the next edition, when we will bring you the latest news
and top stories of this innovative project.

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