



Newsletter #2 - November 2020

Dear readers,

We are happy to share this second issue of our project newsletter with you: you will find dates and links to our first training sessions, held in various countries in national languages (Latvia, Spain, Italy, The Netherlands, etc.). Join us in these free online courses to learn more on how to improve energy efficiency management in cold chains of the food and beverage sector.

You will also find links to our latest publications, reports or peer-reviewed scientific papers, a short video summarising the latest months' progress and coming events.

Finally, I would like to invite you to read this [opinion piece published on EurActiv](#) highlighting the importance of the cold chain in dealing with the COVID19 pandemic and its future vaccine: "The biggest challenge for COVID-19 vaccines is the cold supply chain".

Enjoy reading,

Simone Zanoni, University of Brescia, Coordinator of ICCEE

TRAININGS – information and agendas

Our ICCEE free digital trainings are starting this month, join us to learn more on:

- energy efficiency in the cold chains of the food and beverage sector,
- the potential of the cold chains of the food and beverage industries in saving energy,
- the ISO 50001 energy efficiency certification system,

- the different non-energy benefits derived from savings,
- the economic viability characteristics
- and learn more from practical cases!

Our training programme is aimed at workers in the food and beverage industry and those responsible for energy management, as well as from other areas of the food value chain: production, distribution or logistics. It may also be of interest to engineers, auditors, researchers or industry associations. Do not hesitate, share the information with your teams and join us, this is free.

Past sessions:

[November 11-12 for the Latvian course, 16h30-19h](#)

[November 17 for the Spanish one, 9h30-14h30](#)

Coming sessions:

[November 27 and 30 for the Italian, 14h-16h30](#)

January 2021: ATEE and ANIA will organise the French training. More soon.



Missed a session? More are coming, stay tuned on our website and social media accounts

[Take part!](#)

REPORTS and PAPERS

Supply chain energy impact analysis and best practices: report and factsheets available!

To achieve ICCEE objective to improve energy efficiency in the cold chain of the food and beverage sector, a thorough analysis of the supply chain energy performance is needed to understand where the energy consumption comes from and how to reduce it at the different stages of the supply chain. This [report](#), authored by UNIBS, defines the supply chain and the boundaries of the cold chains of different products, including details on the temperature requirements.

It includes a model supporting the analysis of energy consumption through the supply chain, determined by the refrigeration requirements of both storage and transport activities, as well as quality losses. Finally, best practices of energy efficiency measures to improve the energy performance of the supply chain are provided, [also available as separate factsheets per measure](#). [View the report](#).

Intervention strategy to non-energy related benefits and energy-related behavioural aspects in the cold chain and their implications for the ICCEE tool

What does the setup of a cold supply chain generally look like? To what degree do companies cooperate along the cold supply chain with regard to energy efficiency? What is the relevance of non-energy benefits along the supply chain as compared to the individual perspective? What are particular behavioural/organizational challenges with regard to energy efficiency improvements along the cold supply chains? [Those are questions this report, authored by Fraunhofer, answers!](#) This ICCEE report investigates on: the role of energy efficiency, the relevance of non-energy benefits and the influence of behavioural and organizational aspects with regard to energy efficiency along cold supply chains.

Energy efficiency from farm to fork? On the relevance of non-energy benefits & behavioural aspects along the cold supply chain

This [paper](#) was published in the [ecee proceedings of the Industrial Efficiency conference](#). Though cooling is an ancient concept to preserve food, only modern artificial cooling and freezing made it possible to offer high quality food worldwide and independently of the season. This makes cooling and freezing important energy end-uses in the food industry: they are responsible for about 30 % of electricity consumption. Energy efficiency could thus be of remarkable importance for companies operating in this field. Energy efficiency measures can entail, additionally to the evident energy savings, non-energy related benefits, e.g. enhanced competitiveness, reduced maintenance requirements or an improved working environment. When it comes to whole cold supply chains, behavioural and organizational aspects seem to be important for decision

making about energy efficiency as well, because factors affecting decisions in individual organizations may also occur as cross-organizational issues. [This paper](#) investigates both aspects more in-depth along the cold supply chain of the food sector, thereby moving from the single company perspective to a full supply chain assessment.

VIDEOS



In this short video, IEECP presents the project progress since September 2019 ([a first lunch seminar introduced the project in 2019](#)). Deger Saygin reminds the project complexity, with many different processes, and varying

energy demand for different food products. He presents results from the project survey and first interviews, resulting in 75% of the food sector participants (over 60 participants across Europe) saying that they see benefits besides lower energy bills when thinking about energy efficiency measures. Now in development: LCA and LCC tools / model as well as an e-learning module.

Another [short video was prepared for the Contractors' meeting](#), held October 8-9, that gathered coordinators from twelve relevant H2020 industry-related projects supporting the market uptake of cost-effective energy efficiency



measures in the Industry and Services sectors. The overall aim of the meeting was to foster synergies among projects, presenting preliminary results, sharing best practices and tips to ensure a smooth implementation of the work. The meeting allowed gathering input on the most pressing challenges and opportunities arising from the clean energy transition of the Industry and services sectors.



Focus on... new project!

[Deesme, a new H2020-funded project, becomes a partner of ICCEE](#). Deesme aims at enabling companies to manage the energy transition by taking profit of multiple benefits and energy management approaches, as well as supporting the development and implementation of energy efficiency EU policies in the framework of article 8 of the Energy Efficiency Directive, beyond the project, by providing national authorities with guidelines and recommendations on how to strengthen the national schemes. DEESME will target primarily National Authorities to address their needs from the incumbent policies and make them aware of the resources available to empower their schemes under art. 8, using the multiple benefits approach. Moreover, it will also target SMEs to assist them to develop and test the technical DEESME solutions by organizing information and training initiatives, realising energy audits and implementing energy management systems starting from international standard and adding the multiple benefits energy efficiency approach.

The project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 892235.

News from our sister projects

In a workshop titled "Energy Efficiency Solutions for SMEs", four of our H2020 "sister projects" (SPEEDIER, SMEmPower, innoveas and E2DRIVER) have presented at the Sustainable Places event in October the case for capacity building programmes as a solution to industrial energy efficiency management and lower energy consumption. [The recording is available!](#)

TAKE PART IN ICCEE

Companies interested in energy efficiency in cold chains can participate in ICCEE to be assessed by experts and learn their potential to improve the cold supply chain energy efficiency and non-energy benefits. They can compare themselves with others and understand the opportunities energy efficiency measures bring for their companies.

An industry informative network will be developed to enable learning across all EU Member States and enable exchanges.

You can:

1. - Participate in case studies.
2. - Receive the tool and become a pioneer tester.
3. - Join our cold chain training sessions, opened both to energy experts and non-experts, lasting about a day, in many countries. The first trainings come in September.
4. - Stay informed about reports, documents, events, best practices and more.

Check our website to check dates, contact the partner from your country or ask for E-Learning (available for all EU countries).

[Join us!](#)



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