



## SmartEnCity Network Bulletin

### EDITION JUNE 2018

#### Dear Readers,

Welcome to our first monthly SmartEnCity Network Bulletin! The bulletin outlines different topics regarding smart energy transition of cities along with presenting news from the network members. In addition, our SmartEnCity technical experts are regularly interviewed for more insights on how cities in SmartEnCity Network are progressing with their zero carbon transitions.

This month, our main subjects are focused on smart mobility, smart energy buildings and the concept of how we – in SmartEnCity, perceive zero carbon city transition. Furthermore, one of our technical experts will explain how one of our lighthouse cities, Sonderborg, manages its zero carbon transition.

Enjoy reading!

**Kristina Bozhkova**  
**SmartEnCity Network Coordinator**  
**ProjectZero**



## The zero carbon transition of Sonderborg



One of our SmartEnCity experts, Per Alex Sorensen, from the Danish consultancy PlanEnergi, was interviewed about zero carbon transition journey of Sonderborg – one of the SmartEnCity lighthouse cities.

Per Alex's expertise is in the area of strategic energy planning, green energy transition and zero carbon development of cities. He is closely involved with Sonderborg's green transition and in his interview talked about the CO<sub>2</sub> neutrality goal of Sonderborg which is to be accomplished by 2029 and the journey the city needs to take to achieve the ambitious goal. Sonderborg has already spent 10 years on this journey, gaining challenges, but also creating many opportunities by engaging local stakeholders and implementing the measures etc.

One of the main processes behind the CO<sub>2</sub> neutrality goal is creating the integrated energy plan (also referred to as "the strategic energy plan") which uses integrated approaches combining many aspects, sectors, stakeholders. The path towards zero carbon neutrality is narrow, but the new approach of engaging citizens, organisations, businesses, etc. from an early stage will pave the way towards achieving Sonderborg's goal. [Read full article.](#)

### SmartEnCity Network in a nutshell

The SmartEnCity Network is an integrated part of the SmartEnCity project. It aims at creating an **ambitious city network** that learns from the project experiences and is able to replicate its documented integrated approaches towards **sustainable resource-efficient cities** across Europe. [Learn more about the project.](#)

The SmartEnCity Network consists of currently 30 cities from different countries across Europe. Their **energy solutions and initiatives can be found on the SmartEnCity Network website platform.**

One of our newest city members is Hoje-Taastrup, Denmark. The city has defined four main climate intervention areas: **energy efficiency, electricity, heat supply and transport.**

[Learn more about Hoje-Taastrup's energy initiatives on the SmartEnCity website.](#)

## How is SmartEnCity contributing to zero carbon cities in Europe?



David Drysdale is a PhD fellow at Aalborg University, Copenhagen. As part of the SmartEnCity project, he is doing research on zero carbon energy planning in cities particularly focused on combining local city planning with the energy system transition. He is also supporting the SmartEnCity Network development process.

This short article, written by David, is Part One of a series of articles describing the SmartEnCity approach to zero carbon city development.

### Part 1. An introduction to Integrated Energy Planning in SmartEnCity

Flexibility is the key element in an energy system that allows it to work. The system needs to meet varying demands with instant energy supply and this means that it needs to be flexible. Today, the energy system in a city is flexible because fossil fuels can be stored and consumed on demand. However, as fossil fuels are phased out, the next question will arise: where the flexibility in the energy system will come from in the future? Will it come from the consumers or from the technologies installed in the city?

[Read full article.](#)



## Bike sharing system in Tartu, Estonia



Tartu's new bike sharing system will consist of 600 to 800 rental bikes and 60 to 80 docks and stations throughout the city. The aim is to integrate bike sharing system into the public transportation system of Tartu to form a functional, complementary whole. [Read more.](#)

[more.](#)

## 44 biogas busses in Sonderborg, Denmark



With 44 new biogas buses, Sonderborg became a frontrunner in smart public transport. The new bio-busses can carry bikes, charge mobile phones and offer free web access. [Read more.](#)

## Energy retrofitting of buildings - Webinar



This webinar presents the role of Energy Retrofitting of Buildings as a key part of cities' energy transition. Best practice actions are presented from two of the Lighthouse Cities in the EU SmartEnCity project - Tartu (Estonia) and Sonderborg (Denmark), also explaining how Energy Retrofitting actions are being prioritized as part of the overall transition of these cities. [Read more and watch the webinar.](#)

## Retrofitting works in Vitoria-Gasteiz, Spain



As one of the city's most vulnerable neighbourhood, the Coronación district will see a considerable number of residential buildings fully renovated, including their facades, insulation, windows and doors. [Read more.](#)

## The EU corner – “Energy performance of buildings directive”, amendment review

The “Clean energy for all Europeans” package was adopted by the European Commission in 2016. It comprises of 8 different proposals and actions with the aim of helping the EU to accomplish its 2030 energy and climate goals.

The “Energy performance of buildings directive” EPBD, targets the EU goals of increasing energy efficiency in buildings across Europe. An amendment of the directive was made May, 2018. In the revision the EPBD supports not only the retrofitting activities in buildings but also the creation of electromobility infrastructures incorporated in the buildings parking lots. It also supports the augmentation of smart technologies in this sector.

The revision comes into force on 9. July 2018. The EU member states have been given 20 months to implement their provisions in the national law.

Read more about EPBD at the [European Commission's](#) website.



## [Join](#) the SmartEnCity Network and start your learning experiences now!

### Stay in touch:

- Use the SmartEnCity Network platform to learn more about our network members, events and news [here.](#)
- Learn more about the SmartEnCity project on our [website.](#)
- Use our [Twitter account](#) to stay informed about project news

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