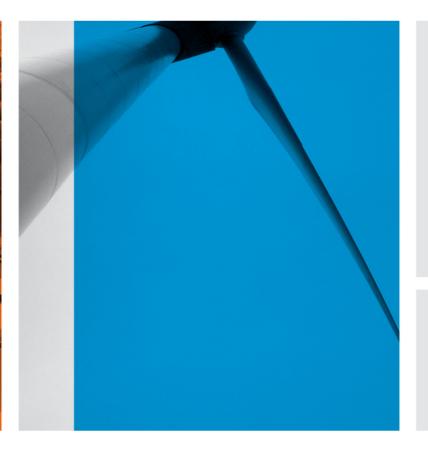
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SmartEnCity

Kristina Bozhkova Network coordinator, SmartEnCity Network 01.10.2019, 100% Climate Neutrality Conference, Sonderborg

TOWARDS SMART ZERO CO₂ CITIES ACROSS EUROPE VITORIA-GASTEIZ + TARTU + SONDERBORG



SmartEnCity Project



→ 3 Lighthouse cities:

- ♣ Vitoria-Gasteiz, Spain
- ♣ Tartu, Estonia
- ♣ Sonderborg, Denmark

→ 2 Follower cities:

- ♣ Asenovgrad, Bulgaria
- ♣ Lecce, Italy
- → 37 project partners
- + 5.5 years (02/2016-07/2021)
- **+** 28M€ EU funding





SmartEnCity Project



→ Main objective:

To transform cities across Europe into sustainable, smart, resourceefficient environments

+ Focus areas:

- Smart buildings
- Smart mobility
- Information and communication technologies
- ♣ Integration of renewable energy (smart electricity, district heating and cooling, etc.)

Smart Zero Carbon City

- Stakeholder engagement
- Governance and planning















Smart Zero Carbon City Concept



- ♣ City carbon footprint and energy demand are kept to a minimum by using demand controlled technologies that save energy and promote awareness.
- ♣ Energy supply is entirely renewable and clean.
- Local energy resources are intelligently managed by aware citizens, as well as coordinated public and private stakeholders.







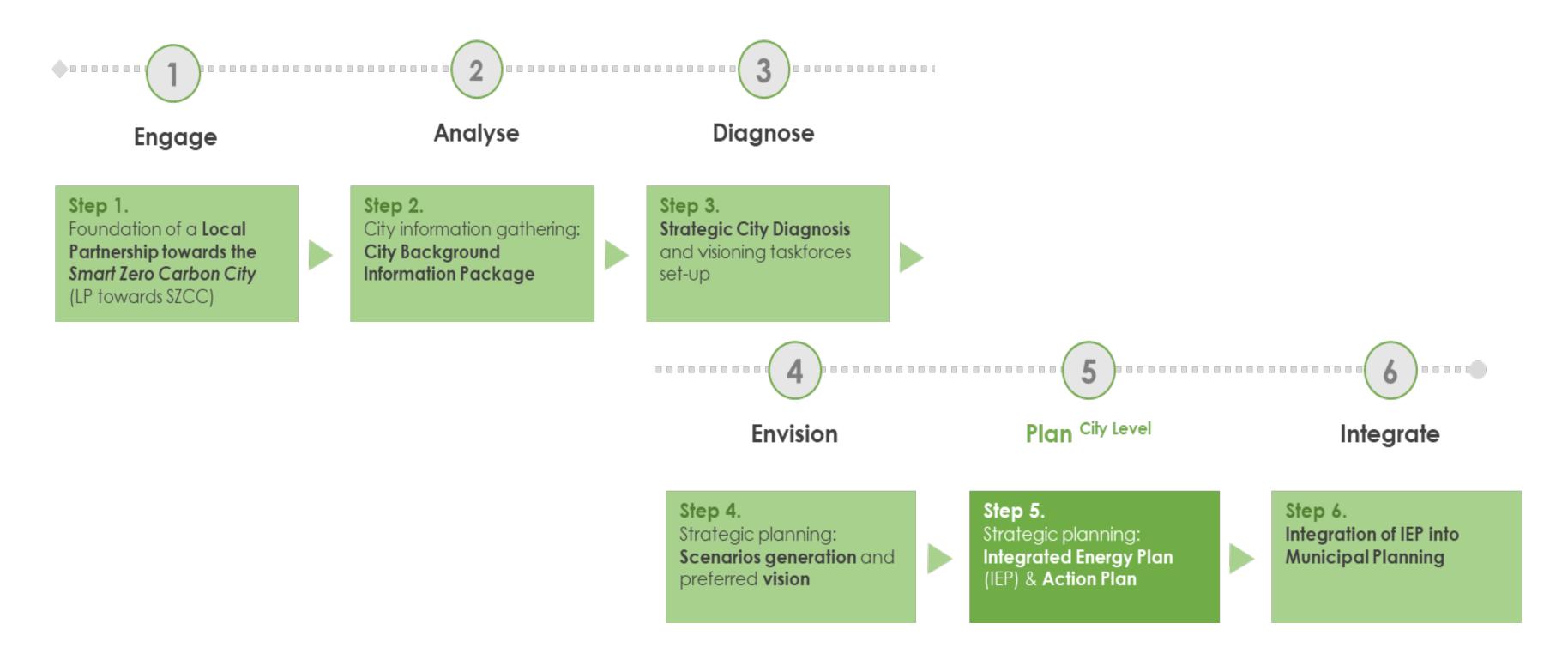
We enable cities across Europe to become Smart Zero Carbon City frontrunners by:

- **→ JOINING** our effort to co-create Smart Zero Carbon Cities.
- ♣ SHARING our ambitions, results and best practice learnings.
- ♣ OFFERING the network honest proven experiences, inspirational cases, integrated approach insights, knowledge sharing, tools and learnings from the three SmartEnCity Lighthouse projects, our two Followers and the SmartEnCity Network cities

Urban transition in SmartEnCity Network



Integrated Energy Plan - the core of Urban transition





- → 14 countries
- **2** national SmartEnCity Networks
 - ♣ Estonia
 - ♣ Denmark
- **→** SmartEnCity Network Platform
 - Smart city solutions
 - Events
 - ♣ News





SmartEnCity Network Bulletin

Edition №14

Dear Readers,

In this edition of the Network Bulletin we explore the Integrated Energy Planning (IEP) processes of the SmartEnCity Follower Cities – Lecce (Italy) and Asenovgrad (Bulgaria). Lecce provides insight in their Foresight Workshop and Asenovgrad highlights their Integrated Energy Planning process and stakeholder engagement workshop.

David Drysdale, PhD fellow at Aalborg University, Denmark published a new article on the Integrated Energy Planning methodology that has been developed in the SmartEnCity project and has been tested by the Lighthouse and Follower cities. This methodology can be used and adapted to any city that strives toward CO₂ neutrality.

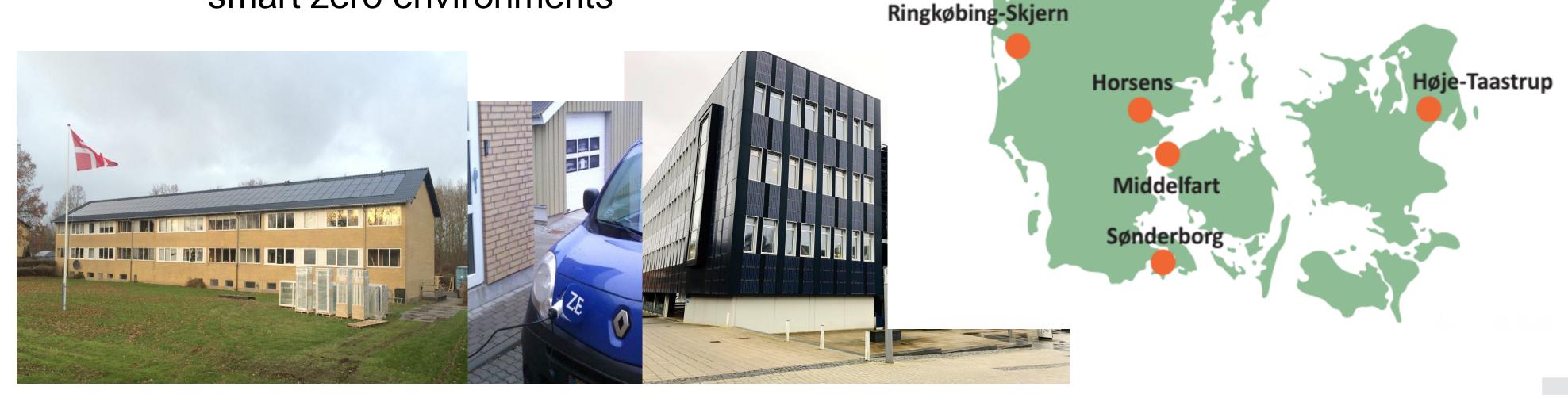




Frederikshavn

+ Denmark

- **+** Sonderborg Forerunner
- ♣ Energibyerne The Energy cities National collaborative group Towards smart zero environments













- ★ Estonia The Smart City Club
 - **+** Tartu Forerunner
 - ♣ Cooperation and exchange of experiences between ambitious Estonian municipalities
 - Energy savings and smart city principles
 - ♣ Smart city concept, data platforms, buildings





Sonderborg

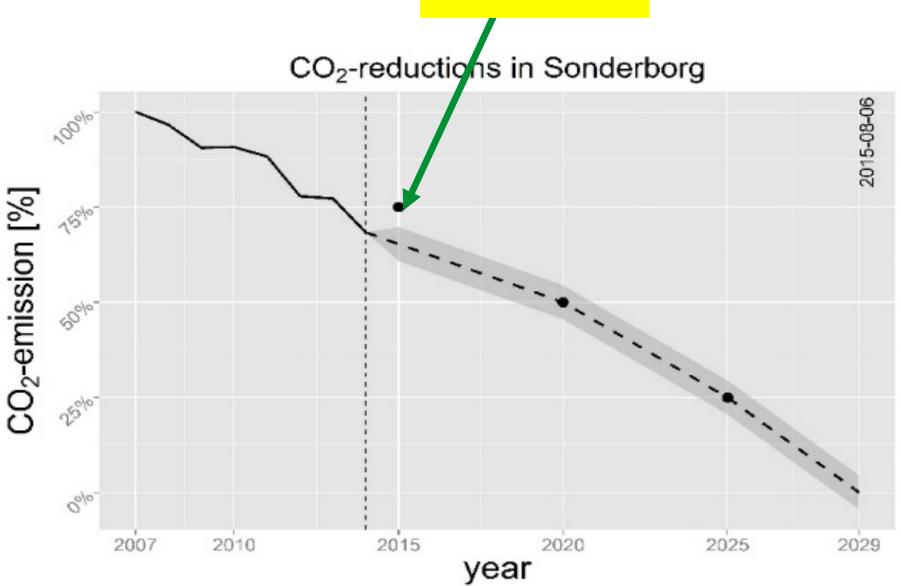


- + Goal
 - **+** CO₂ Neutrality by 2029
- **+** Achievements:
 - ♣ Overachieved our 2015 milestone (25%)
 - → 35% CO₂ reduction during 2007 2016
- + Targeting
 - ★ 50% reduction by 2020
 - → 75% reduction by 2025
- → 800+ Green Jobs Created
 - ♣ In the construction industry
 - Green district heating
 - Energy consulting



722,000 tonnes of emissions (baseline 2007)





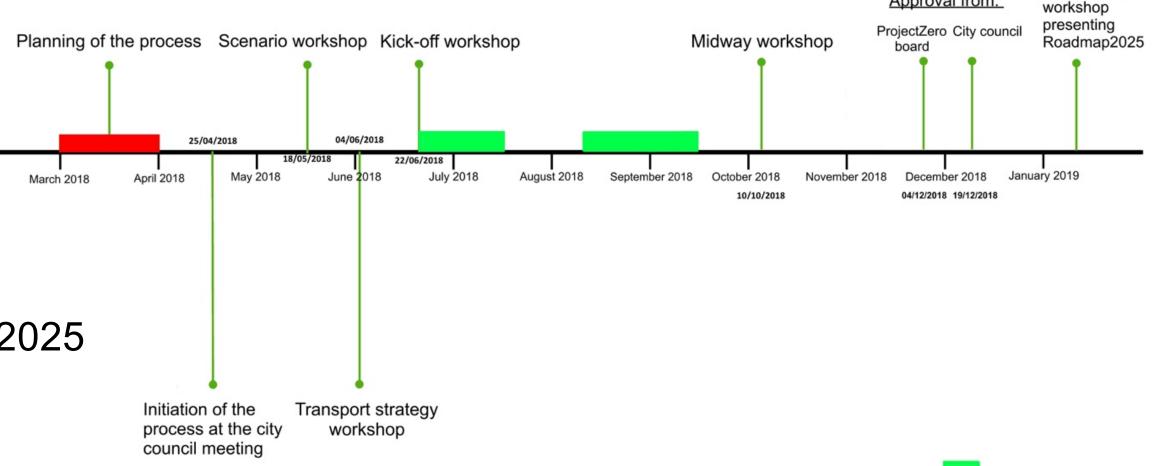
Sonderborg – Roadmap2025



The IEP process development of the Roadmap2025 was carried out with the following 8 process steps:

- 1. The City Council's approval of the Roadmap2025 development process
- 2. Scenario workshop
- 3. Kick-off workshop
- 4. Segment-focused working groups
- 5. Evaluation and calculation
- 6. Midway workshop and discussions
- 7. Reporting
- 8. City Council's approval of Roadmap2025





Implementation

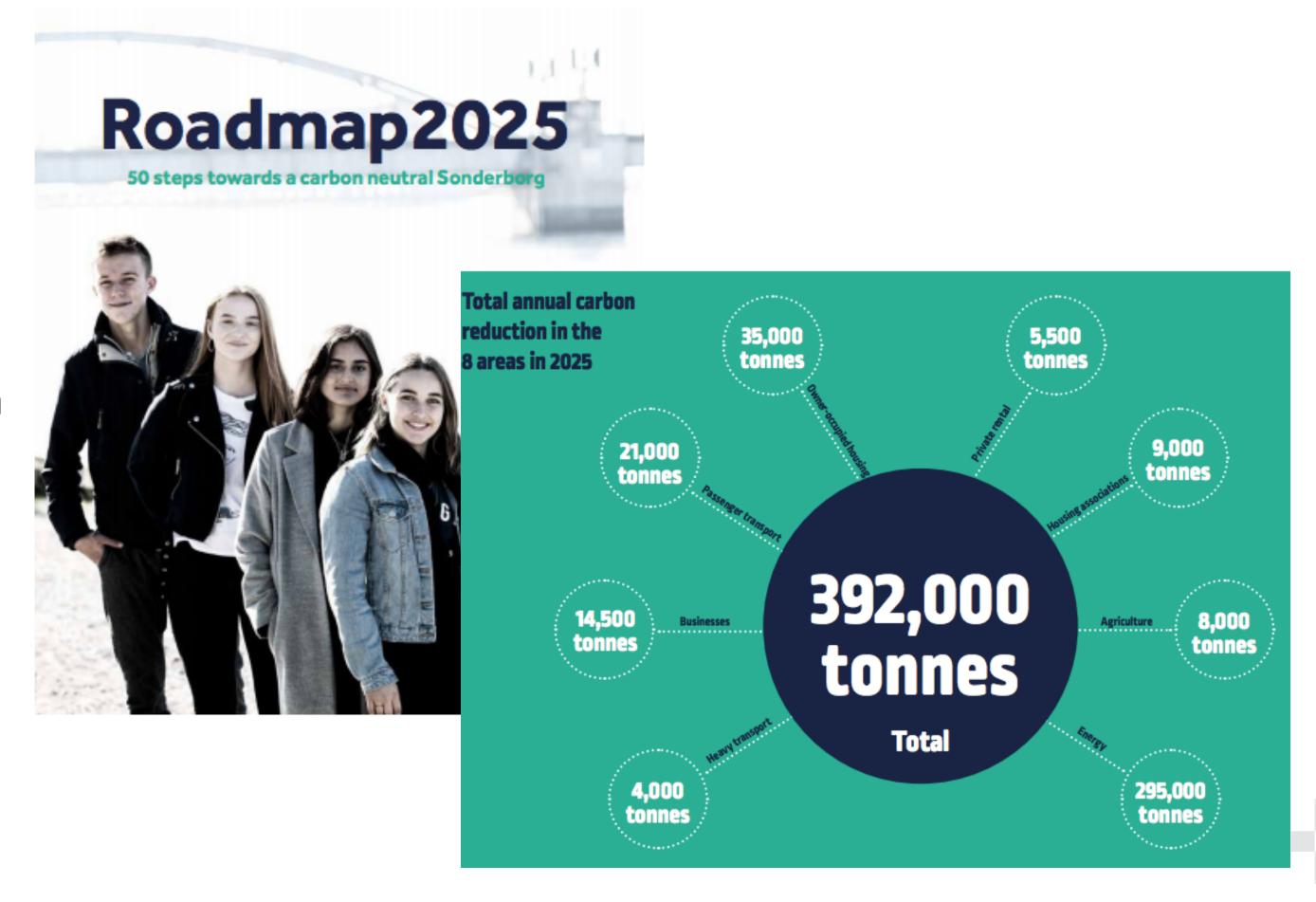
Approval from:

Sonderborg – Roadmap2025

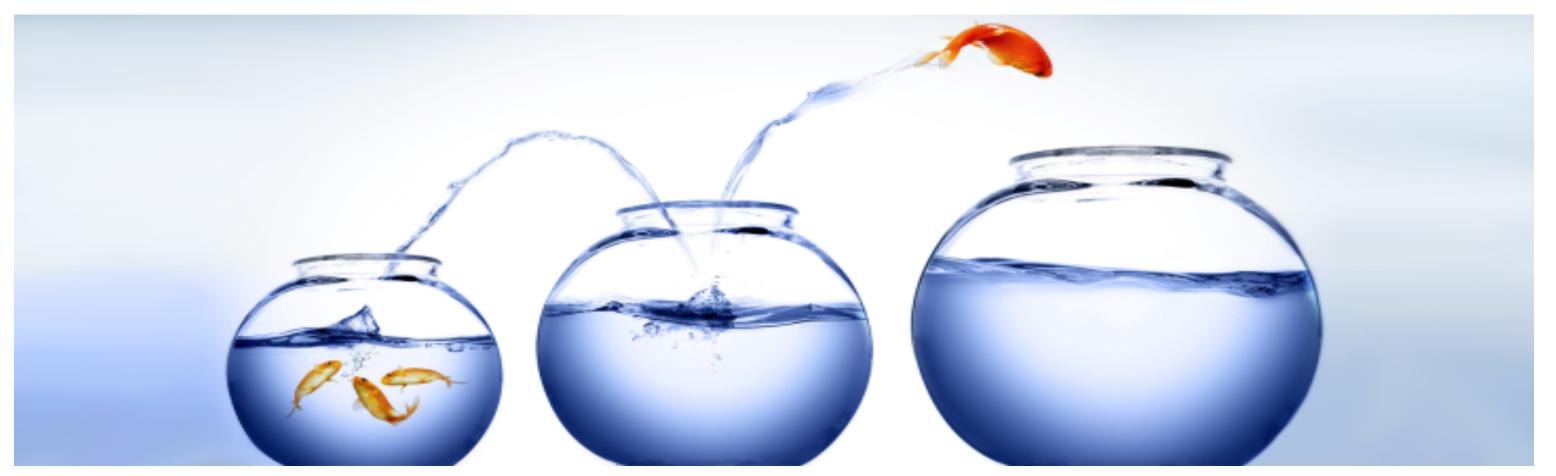


The 8 segments:

- Homeowners
- Housing associations
- Private rental homes
- Private transportation
- Heavy transport
- Companies
- Farmers
- Energy







You do not have to be a Capital City to do a major difference.

- → Join the SmartEnCity Network and become a Smart Zero Carbon City frontrunner!
- → Sign up for the SmartEnCity Network bulletin!



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www.smartencity.eu





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