



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

Deliverable 8.3 Smart Cities Network Activities Report_V2

WP8, Task 8.1



***You don't have to be a Capital City to do a major difference.
Join the SmartEnCity Network
and become a Smart Zero Carbon City frontrunner.***

Date of document

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Author(s):	Peter Rathje, Merit Tatar, Simon Sorensen

¹ PU = Public

PP = Restricted to other programme participants (including the Commission Services)

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Project Coordinator	Francisco Rodriguez Tecnalia francisco.rodriguez@tecnalia.com
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Abbreviations and Acronyms

Abbreviation/Acronym	Description
SEC SmartEnCity	Towards Smart Zero CO2 Cities across Europe
SEC/N	SmartEnCity Network
SEC/N-DK	The sub-network of Danish member cities of SEC/N
SEC/N-group	The SmartEnCity Network group is the task 8.1 partners, responsible for creating, maintaining the SEC/N and delivering the task 8.1 deliverables
IUP	Integrated Urban Plan
SEAP	Sustainable Energy Action Plan as initiated by the EU Covenant of Mayors

Table 1: Abbreviations and Acronyms

0 Publishable Summary

The SmartEnCity Network (SEC/N) serves as a platform for SmartEnCity replication, dissemination and exploitation activities.

The SEC/N has successfully ended its 24 first months. Many initiatives have been taken to attract interest, create content platforms and provide structure. The SmartEnCity Network now consist of 28 Network members, including the Lighthouse and Follower cities. The ambition is to grow this number further to secure sufficient qualified small and medium sized cities to replicate the SmartEnCity solutions as describes in task 8.5 using the basics of the IUP Integrated Urban Plan.

SEC/N meetings and discussions with ambitious cities across Europe, have documented that there is a need for a joint domain, where small and medium sized cities (and municipalities) can share their knowledge, benchmark, learn from each other and where new knowledge from the outside can be added.

Based on this, the SEC/N value proposition has been defined as:

***You don't need to be a Capital City, to do a major difference.
Join the SmartEnCity Network
and become a Smart Zero Carbon City frontrunner.***

During the initial 24 months, the SEC/N-group has been focused on the following activities:

- Creating a SEC/N value proposition
- Defining a five step Network strategy
- Organizing the Network launch meeting in Tartu on 1. June 2016
- Communicating the Network and its launch
- Establishing an initial Network website
- Promote the SEC/N across Europe
- Launching a sequence of five SEC/N webinars
- Signing up for new Network members
- Organizing a SEC/N meeting in Lecce on 22. February 2017
- Discussion of best practice approaches to Zero Carbon urban transition
- Launching a new interactive SEC/N website allowing the participating network member-cities to present themselves and the SEC Lighthouse cities to present their SEC-solutions
- Organizing a SEC/N “What makes a city smart” meeting in Sonderborg on 4. October 2017
- Organizing a joint SEC/N & SCC1 Follower-cities workshop in Sonderborg on 5. October 2017
- Organizing a SEC/N study-tour in Sonderborg for SEC/N and SCC1 participating city- and expert-members on 5. October 2017



- Co-hosting a SEC/N and SCC1 workshop for SCC1 projects in Sonderborg on 6. October 2017
- Organizing a SEC/N (DK) meeting focused on Danish member-cities to discuss new ideas in Middelfart (Denmark) on 11. December 2017
- Preparing for a follow-up workshop for the SEC/N-DK members in Middelfart on 5. February 2018
- Preparing a joint SEC/N-DK approach at the Danish “Folkemødet, Bornholm” on 13.-16. June 2018
- Participating in content discussions regarding an increased focus on the city transition journey from EU Covenant of Mayors SEAP (Sustainable Energy Action Plan) to IUP (Integrated Urban Planning) and how this potentially impact the SEC/N activities
- University research regarding successful Zero Carbon transition and the associated City Journey
- Joining continued discussions regarding the creation of one SCC1 Network, the preparation of the ENEA SCC1 Follower-cities workshop and participation in Brussels Replication workshop on 26. January 2018
- Structural forward-looking issues and Network strategy adjustments to be addressed

The activities and the associated learning will be described further in this report.

The SEC/N-group will continue to grow the Network by adding more member and more content (Deliverables) from the SEC-project.

1 Introduction

Establishing the SmartEnCity Network (SEC/N) is an important and integrated part of the SmartEnCity project, especially for the large-scale replication of the systemic approach demonstrated. And it is integrated, as the SEC network connect the findings in the SEC Light house and Follower cities with the ambitions and need for similar systemic transitions in all small and medium sized cities across Europe, which is the main focus of the SEC/N target group.

However, establishing the Network before the SEC project has delivered substantial results, is a major challenge, like building the rails as the train is driving.

During the initial 24 months, several activities have been initiated to establish a robust SEC/N platform. This SmartEnCity Delivery 8.3 Report will provide a status for establishing and operating of the SEC Network.

Apart from own Network development and discussions, the SEC/N-group has joined the process and participated in the associated SCC1 joint meetings.

However, our preliminary conclusion is that one European SCC1-Network will not fit all cities across Europe, unless it specifically addresses the needs, opportunities and challenges associated with Europe's small and medium sized cities, so there is still a need for a EU SEC/N Network. Which could be potentially integrated in the joint SCC1-Network as its vision evolves into an integrated one.

1.1 Purpose and target group

Objectives from SEC Grant agreement

The SmartEnCity Deliverable D8.3 Report forms the basis for a successful replication of the SmartEnCity project's learnings and results as described by the SEC WP8 objectives:

The objective of SEC WP8 is to ensure the successful and large-scale replication of systemic approach demonstrated in project lighthouse cities towards urban transformations into sustainable, smart and resource-efficient urban environments in Europe. The specific objective is to develop sound framework for effective replication to happen in the rest of the lighthouse city districts, in the follower cities but accordingly to enhance the possible replication of demonstration solutions and innovative business models on much wider scale through developed community of interest (Smart Cities Network).

The main result of WP8 is the development of high quality and future oriented Integrated Urban Plans (IUP) for each partner city, either lighthouse or follower, which implementation is ensured and backed up by the realistic and high-quality Replication Roadmap incorporating the lessons learned from the demonstration activities. While using the methods and tools of SmartEnCity regeneration strategy developed commonly in WP2, supporting successful integrated planning and replication will lead to socially accepted replication projects in the follower cities and within the Smart Cities Network.

The successful implementation of WP8 is framed by SmartEnCity regeneration strategy developed in WP2, closely related to the outcomes of WP7 and successful replication and



knowledge transfer is importantly supported and enhanced by the Exploitation, Dissemination & Communication activities of WP9.

Scope of task 8.1 work from the SEC Grant Agreement

The framework and ambition of D8.1 (reporting initial 12 months) and this updated M24 Report D8.3 is described in the application for task 8.1 as to create an additional cluster of cities besides official follower cities willing to deploy and replicate the project solutions, having access to the knowhow and results of the project and a privileged contact with the project's partners. This will create a community of like-minded cities and more wide scale and successful replication of project results.

Participating in the Smart Cities Network, will bring together cities and communities interested in designing and implementing their own district-scale refurbishment and integrated ICT and mobility strategies, provide guidance and advice based on the experiences of flagship cities implementing district-wide renovation and integration of sustainable energy technologies.

Participating in the network will give these cities a privileged access to sound replication plans, financing formulas, technology insights and proven experiences. Several knowledge and learning opportunities are delivered to these cities to learn about district focused solutions, meeting experienced partners for future EU projects and increasing their visibility and skills set.

All participating cities will have access to the knowledge and results created by the project, to develop or modify their own Smart City Integrated Urban Development Plan or Smart Community Strategies.

Description of specific task 8.1 activities:

The task 8.1 activities consist of the following described activities (from the SEC-application):

- **Establishing a Smart Cities Network homepage within the main project page**, other project dissemination and communication activities developed in WP9. This will facilitate the Smart Cities community building through updated information, blog activities, sharing experiences and materials and information specifically made easy to reach considering the expectations of the Smart Cities Network members.
- **Participation in the dissemination, exchange and promotion activities** and using all dissemination and exploitation channels of the project for featuring the city (see WP9).
- **Participation and access to project training seminars, webinars and conferences** (in parallel with WP9 Dissemination and Communication).
- **Participation in technical study tours in the lighthouse cities** and possibly in other defined demo sites to gather extensive hands on experience of retrofitting technologies and strategies, urban mobility solutions and ICT opportunities to integrate the solutions as well as effective community and stakeholder engagement methodologies.
- **Delivery of smart city replication toolbox** (see also task 8.2) for developing IUPs for the Smart Cities Network participants group.
- **A series of local level stakeholder capacity building workshops (10)** for aligning local conditions to methodologies to guide the evolution towards 100% RES Smart City and Smart

community. The aim is to involve 400-500 participants with these workshops around Europe and reach to minimum 15 new Smart City Integrated Urban Development Plan or Smart Community Strategy development processes within the Smart Cities Network by the end of the project.

- **Organizing yearly Smart Cities Network conference** within the framework of SmartEnCity project for exchanging the project progress, used methodologies, deployed solutions etc. and for attracting new members to the community.
- **Continuous analysis and evaluation of the operation of the Smart Cities Network** and compilation of the Report of Outcomes of the Smart Cities Network Activities and future continuity plan of the network.

Several knowledge transfer activities have been planned in WP9 (especially task 9.3) which will interlink the lighthouse and follower cities with the Smart Cities Network and provide a platform for knowledge-transfer of best practices between these - focusing on exploitable products, services and processes.

This task 8.1 (Delivery D8.3) Report will provide the status for establishing and operating the SEC Network.

1.2 Contributions of partners

The following Table 2 depicts the main contributions from participant partners in the development of this deliverable.

Participant short name	Contributions
TEC	Review of deliverable
ZERO	Overall content to sections 1, 2, 3
IBS	Review of deliverable
AAU	Review of deliverable
PLAN	Content
DAPP	Review of deliverable

Table 2: Contribution of partners

1.3 Relation to other activities in the project

The following Table 3 depicts the main relationship of this deliverable to other activities (or deliverables) developed within the SmartEnCity project and that should be considered along with this document for further understanding of its contents.

Deliverable Number	Main deliverables - name & deadline	Contributions
D2.x	D2.3 New business models, procurement schemes and financing mechanisms for smart city projects (M06) D2.4 City needs and baseline definition process and methods (M06) D2.5 Integrated management models for large scale Smart City transformation projects (M09) D2.6 Citizen Engagement Strategy and deployment plan (M12) D2.7 Integrated and systemic SmartEnCity urban generation strategy (M18, M45)	These deliverables provide the basic understanding of the city transformation processes
D3.x (Vitoria-Gasteiz), D4.x (Tartu), D5.x (Sonderborg)	D3.1 Vitoria-Gasteiz Diagnosis and Baseline (M9) D3.2 Vitoria-Gasteiz Integrated planning report (M18) D3.3 Building retrofitting interventions completed (M36) D3.4 District heating network deployed and in use (M36) D3.5 EV vehicle purchases completed, vehicles in operation (M36) D3.6 EV charging infrastructure deployed and in use (M36) D3.7 Last mile logistic electric infrastructure deployed and in operation (M36) D3.8 ICT infrastructure deployed and commissioned. City Information Open Platform in use (M42) D3.9 Citizen engagement and replication (M42) D3.10 Vitoria-Gasteiz Demo intervention summary report (M42) D4.1 Tartu diagnosis and baseline report (M9) D4.2 Tartu Integrated planning report (M18) D4.3 Building retrofitting complete (M36) D4.4 District heating and cooling system commissioned and deployed (M36) D4.5 Street lighting commissioned and deployed (36) D4.6 EV vehicles purchased and in operation (M36) D4.7 Gas buses purchased and in operation (M36)	These deliverables provide the Lighthouse demonstration platforms and learnings to be exposed during the technical study tours to lighthouse cities, the solutions websites etc.

Deliverable Number	Main deliverables - name & deadline	Contributions
	D4.8 Mobility infrastructure set up and in operation (M36) D4.9 Bike sharing system set up and in operation (M36) D4.10 Participatory transport planning tool developed and in operation(M36) D4.11 ICT infrastructure commissioned and deployed, CIOP in use (M42) D4.12 Citizen engagement and replication. (M42) D4.13 Tartu Demo intervention summary report (M42) D5.1 Sonderborg Diagnosis and Baseline (M9) D5.2 Sonderborg Integrated Planning report (M18) D5.3 Sonderborg Building retrofitting complete (M24) D5.4 38 biogas-buses in operation (M24) D5.5 Increasing RES-supply for district heating to (M30) D5.6 Intelligent rechargers in operation together with E-vehicles + non-intelligent public rechargers (M36) D5.7 ICT Sonderborg platform in operation (M42) D5.8 Sonderborg SmartEnCity Stakeholder Platform Report on citizens and stakeholder's involvement strategy (M42) D5.9 Sonderborg Demo intervention summary report (M42)	
D6.x	D6.2 CIOP architecture generic implementation (M12) D6.5 Designing guide and tool catalogue (M21) D6.6 Strategies for added value services and tool catalogue (M21)	These deliverables provide understanding of the data and ICT infrastructure to be exposed during the technical study tours to lighthouse cities
D7.x	D7.2 KPIs definition (M06) D7.4 City impact evaluation procedure (M12) D7.9 Data collection approach (M18)	These deliverables provide the deeper understanding of how progress can be monitored and evaluated at city level
D8.2	D8.2 Replication Toolkit (M12, M66)	This deliverable will use the SmartEnCity Network as the base for introduction of the Replication Toolkit and Framework
D8.3	D8.3 Foresight and evaluation of the usage of the methodology in individual cities (M48)	This deliverable will use the SmartEnCity Network as the base for discussing the results



Deliverable Number	Main deliverables - name & deadline	Contributions
		of the participative foresight in individual cities
D8.6	D8.6 Updated IUPs for each LH and follower city (M60)	This deliverable will use the SmartEnCity Network as the base for transfer of lighthouse results and knowledge to follower cities, Network cities, European communities
D8.7	D8.7 Report of widening the scope of replication knowledge through Smart Cities Network and several European platforms (M60)	This deliverable will use the SmartEnCity Network as the base for exchange of information and scoping the Replication Roadmaps
D8.10	D8.10 Replication Roadmap for each lighthouse and follower city (M66)	This deliverable will use the SmartEnCity Network as the base for exchange of information and scoping the Replication Roadmaps
D9.x	These reports are confidential and only for members of the Consortium and the Commission.	These deliverables will interact and use the SmartEnCity Network for dissemination, exploitation and communication

Table 3: Relations to other activities in the project

2 Objectives and expected Impact

2.1 Objective

The initial 12 months (M01-M12) in task 8.1 were focused on establishing a robust joint platform for recruiting cities to the SEC/N, to secure interested cities for a large-scale replication of the systemic approach demonstrated in the SmartEnCity project.

The following 12 months (M13-M24) have been focused on scaling up the number of participating cities, implement scheduled activities and developing content to start the joint City Journey toward an IUP Integrated Urban Plan for additional 15+ qualified and motivated replication SEC/N cities.

2.2 Expected Impact of the SmartEnCity Network

The expected impact of the initial 24 months of work in task 8.1 is a network-platform for

- Sharing knowledge and learnings among the Network members including Network meetings, technical study tours, training seminars etc.
- Further recruitment of motivated cities and city-networks
- Execution of the smart city replication toolbox (SmartEnCity Delivery D8.2 Report)
- Continued capacity building workshops and webinars for in total 400 – 500 participants
- Selection of cities for (minimum) 15 Smart City Integrated Urban Development Plan or Smart Community Strategy Development processes

Task leader has been ZERO in close cooperation with the following involved partners IBS, PLAN, AAU, TEC, DAPP, SEZ and partly SEC.

Activities created in task 8.1 and task 8.2, form the platform for large-scale replication of the SEC demonstrated approach (created in WP2, WP3, WP4, WP5, WP6, WP7), the base for all other WP8 work and tasks including, a base for the WP9 Exploitation, Dissemination and Communication.

3 Task 8.1 The Smart Cities Network

This chapter will provide a specific description of the overall approach, what has been taken, implemented and results achieved in task 8.1 during the initial 24-months period of the SmartEnCity project.

The description will follow the sequence in which the actions have been implemented.

3.1 Creating the SEC/N value proposition

The SmartEnCity approach addresses mainly small and medium sized cities (up to app. 300,000 inhabitants) across Europe, without any lower limit.

Small and medium sized cities will be the main focus of the SEC/N, however if larger cities show interest, they are welcome to join the SmartEnCity Network.

City network members should have an approved SEAP (Sustainable Energy Action Plan) and comply with the following (updated) statements/ambitions:

- **Focused on growth in Quality of Urban Life** - less pollution and a better health, interesting new work places, stronger personal and city economy. And to be less dependent on import of fuels and thus **able to** decide upon own everyday life.
- **Zero Carbon** is our ambition and final goal for our City Transition Journey
- We engage citizens, and **citizen participation** is core for achieving our goals
- The **integrated approach** is how we plan, engage and implement across city sectors including mobility, energy and ICT based **solutions. Integrated Urban Plans (IUP)** is an important outcome of the planning process and form the base for the implementation of new solutions and approaches.
- **Action oriented**, as we are impatient to implement the IUP's and see the results
- **Sharing and Replication** to other cities, with respect for their individual situation and values, will document the quality of our solutions and approach.

Based on feedback from conferences and cities, the integrated approaches (and especially transportation) seem to be a major challenge for the small and medium sized cities.

Based on this, the following SEC/N value proposition was created:

The SmartEnCity Network enables cities across Europe to become Smart Zero Carbon City frontrunners

We invite cities, urban planners and associated experts across Europe to join our effort to co-create Smart Zero Carbon Cities. We commit ourselves to share our ambitions, results and best practice learnings based on an integrated action oriented approach with strong citizen participation.

Our vision is to enable Europe's small and medium-sized cities to become fast economically growing Smart Zero Carbon Cities.

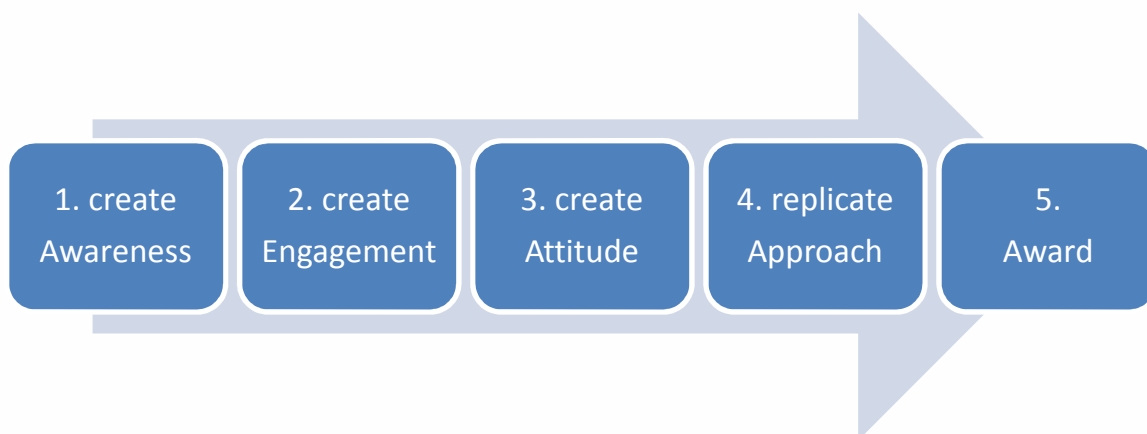
We offer the network honest proven experiences, inspirational cases, integrated approach insights, knowledge sharing, tools and learnings from the three SmartEnCity Lighthouse projects including utilities and industrial partners, our two followers and our Network cities.

You don't have to be a Capital City to do a major difference.

***Join the SmartEnCity Network
and become a Smart Zero Carbon City frontrunner.***

3.2 Defining a five step SmartEnCity Network strategy

The following five step model has been created to secure a dynamic and robust process for how network cities can be exposed, engaged, committed, trained and awarded, as participants of the SmartEnCity Network.



3.2.1 Level 1: Create awareness among the app. 8,000 SEAP cities across Europe of the existence of the SmartEnCity Network

- We do:
 - create website and use (own) LinkedIn profile to promote the Network
 - create and offer SEC/N webinars and store them in the SEC/N library
 - promote the Network by all means – articles, conferences, webinars etc.
 - engage with existing LinkedIn discussion groups
 - engage with relevant SEAP city networks and other regional, national and across Europe networks
 - engage relevant cities involved in other EU projects
 - create visibility of registered (participating) Network cities
- Participants do:
 - sign up on the website and fill in the SEC/N CIF questionnaire
 - follow and participate in our website, webinars, LinkedIn etc. communication
 - communicate the Network and its value proposition and creation to other cities

3.2.2 Level 2: Create engagement by sharing knowledge, using tools and attending webinars, workshops, study-tours & conferences

- We do:
 - deposit news, schedules and information on the SEC/N website, the SmartEnCity Newsletter and on relevant LinkedIn discussion groups,
 - collect information from SEC partners on the previous experience, actions and proposals for webinar content
 - continue organizing webinars sharing knowledge among the network members,
 - update the list of city-participating members and visualize it on the map on our website,
 - collect information from city members on their previous experience and current needs and display them on the network website
 - create and moderate a LinkedIn discussion group ...
 - work with other city networks to speed up the learning and release synergies
- Participants do:
 - follow, study and join discussions, provide basic information on their previous experience and current need, share experience with own own actions through webinars

3.2.3 Level 3: Create attitude and commitment by recognizing the SmartEnCity Network as a trusted and preferred partner/network

- We do:
 - use other medias to communicate our approach, solutions, results and impact
 - provide and disseminate quality support documents to the network (toolbox, guidelines, training material, tips)
 - engage SmartEnCity urban and technical experts in the discussions
 - start recruiting the 15+ replication cities from the Network to adapt our approach, solutions, toolbox etc.
- Participants do:
 - strengthen their commitment by attending Network webinars, seminars, study tours and conferences
 - involve further city stakeholders (experts) to share their experience
 - bring in own experts for knowledge transfer and possibly co-creation
 - initiate new Smart Zero Carbon City discussions on their own etc.
 - create desire for replication using the Smart Zero Carbon City approach, solutions, toolbox etc.

3.2.4 Level 4: Replicate our approach, solutions and toolbox based on desire and actions

- We do:
 - offer the task 8.2 toolkit and expert coach to create Integrated Urban Plans (IUP's) for participating cities supported by expert experience.
 - select the 15+ replication cities
 - support and coach the selected cities using our knowledge and toolbox
 - motivate selected cities to implement their IUP's and the associated SmartEnCity solutions
- Participants do:
 - show commitment to develop and implement Integrated Urban Action Plans (IUAPs) specifying what, where, when, who and sign up for coaching by SmartEnCity partners
 - use toolbox, coaching and own conditions to develop their own IUP
 - start implementing their Integrated Urban Plan and the associated SmartEnCity solutions and approaches

3.2.5 Level 5: Award implementation actions taken for the 15+ network cities

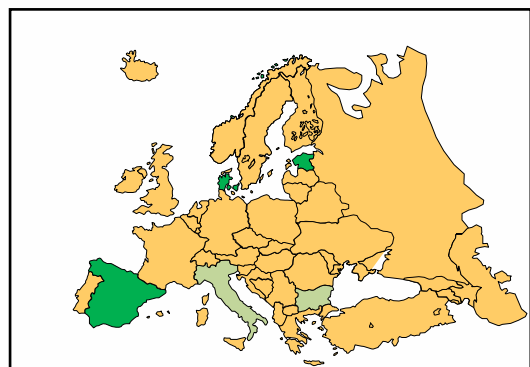
- We do:



- promote the network cities, their approaches, solutions, IUP, results and impact
 - disseminate results and speed up communication using websites, LinkedIn, webinars etc.
 - award best practices within the Network
 - maintain the Network communication
- Participants do:
 - continue implementing their IUP's and the associated SmartEnCity solutions and approaches
 - support the promotion by active participation in the Network-activities and storytelling
 - recruit new Network member and the expansion of the Network

All members will join the first level and levels (for participating cities) will progress during the projects 5-year's timeline – as more content will be developed and participants will expand their participation.

During M13-M24 it was decided not to compromise the City Journey by volume progression. This means that more focus was given to understanding the City Journey from SEAP to IUP before substantial more new cities were recruited.



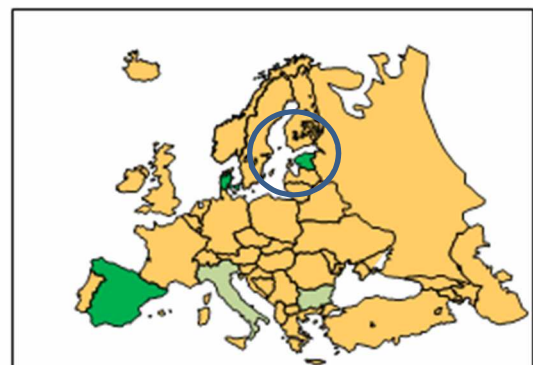
It was during M13-M24 also realised that managing the Network will require more structure and set-up than originally expected. For preliminary thoughts, have a look at section 3.12 of this Report. The challenges and issues will be further discussed in M25+.

3.3 Facilitating network meetings including local level stakeholder capacity building workshops and study tours

3.3.1 Organizing the SEC/N launch seminar in Tartu – June 2016

The SEC/N launch seminar took place in Tartu on 1. June 2016. It was organized as part of a conference organized by Tartu city and Smart City Lab (also partner in SmartEnCity project), “Smart City for the Citizens” and together with the first SmartEnCity Steering Committee meeting.

Almost 30 people participated, including invited city guests from Kaunas, Turku, Ventspils and SEC participants from Sonderborg, Vitoria-Gasteiz, Asenovgrad and Tartu.



The aim of the seminar was to discuss what member cities would expect from the SmartEnCity Network and how to move forward with planning and implementing the SEC/N network activities.

Short presentations about the current smart city developments were made by Sonderborg (Lighthouse city), Kaunas, Ventspils and Turku:

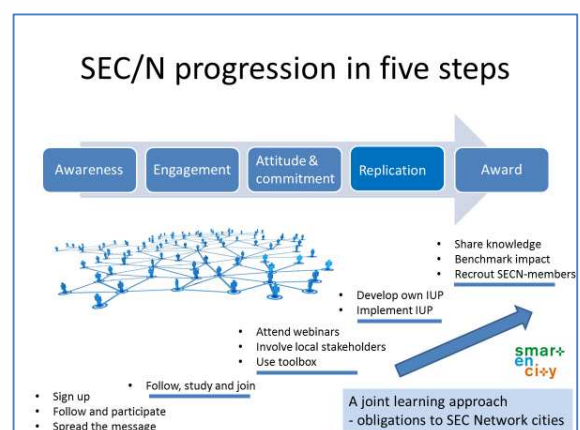
- Sonderborg (75.000 citizens) focused on its ProjectZero ZEROcarbon initiative, strategic energy planning and coordination, actions implemented, monitoring impact and stressed the importance of stakeholder participation;
- Kaunas (300.000 citizens) focused on smart transport, LED street lights and the quality of life and talked about the 7 billion € to be invested in low-carbon Lithuania (mainly EU Structural Funds);
- Ventspils (40.000 citizens) focused on ICT driven roadmaps, smart technologies and smart metering solutions in homes;
- Turku (180.000 citizens) focused on new smart districts, district heating networks and city's investment plans and introduced the goal of reaching carbon neutrality by 2040.



ZERO, introduced the SEC/N value proposition – to enable cities across Europe to become smart zero-carbon city frontrunners. The focus is on the ZEROcarbon vision, citizen participation, integrated solutions, action-orientation, economic growth and replication. The SmartEnCity partners offer honest experience, inspirational cases, integrated approach insights, knowledge sharing and tools.

Issues discussed with other city representatives included:

- How to secure investments (huge amounts to be invested in energy transition, network members might not find extensive support);
- How to build on SEAPs (need to think how to get cities from SEC/N strategy stage 1 into the following stages and how to support them);
- How to define an appropriate city size in the SEC/N (city size and country context matters, different challenges, huge potential also of cities below 100K);
- How to define a common SEC/N language (incl. definitions, smart city, ICT, stakeholders, actions);
- How to secure a long-term impact of the created knowledge and support structures.





Ventspils Deputy director for ICT issues, presenting the Ventspils challenges and approach to SmartCities at the SEC/N launch seminar in Tartu on 1. June 2016

Decisions made in this launch seminar included:

- SEC/N will consider taking a sectorial approach in providing know-how and tools for the network members (e.g. district heating, building retrofitting, transportation, PV as separate topics, enables to involve more relevant stakeholders).
- SEAP and Covenant of Mayors are existing strong structures to build upon
- SEC/N will set up support structures for the network members (definitions, website content, materials, toolbox etc.).
- Supporting structures need to be addressed further
- SEC/N launches the press release and that was sent out by the end of June 2016 to partners, media contacts and other stakeholders.





In conclusion, the Network discussions and feedback given, confirmed a strong interest and need for sharing challenges and experiences among first mover transition smart cities, as transition investments are considerable high and so are the risk of making wrong decisions.

This confirmed the SEC/N value proposition.

3.3.2 Organizing the Lecce SEC/N meeting – February 2018

On 22. February 2017 the second SEC/N meeting took place in the SEC Follower city Lecce, Italy.

Based on the learnings from the Tartu Network meeting, stronger attention was given to the participation of (local) Italian cities and other cities in the Mediterranean region interested in the Smart City topics.

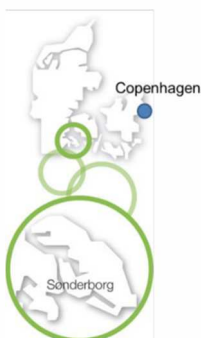


The agenda for the Network Event in Lecce was divided into two main sessions: the “Seminar” morning session and the “Roundtables” afternoon session. The main topics were energy and smart buildings, smart urban mobility and ICT solutions for Smart Cities. In the afternoon session, 15 Italian Municipalities and 5 European foreign Municipalities joined the roundtables, and shared their experiences within the Smart City fields.

Other local Municipalities, architects, engineers and urban planners were invited to attend the event. A little over 100 people participated in the meeting and around 20 cities were present. D’Appolonia (DAPP) and Lecce Municipality (LECC) were responsible for the agenda, invitations to be distributed and the organization and execution of the Network Event.



3.3.3 Organizing the Sonderborg SEC/N meeting – October 2017

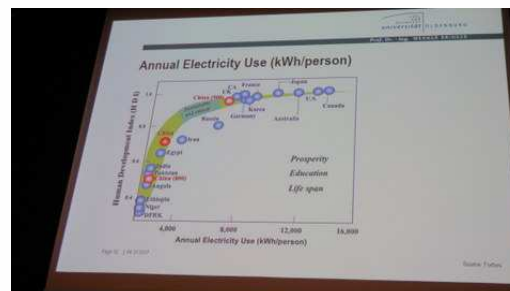


An additional 2018 SEC/N meeting was held on the 4. October 2017 and took place in Sonderborg, one of the SEC Lighthouse cities.

The meeting was an integrated part of the “100% Climate Neutrality” conference organized by ProjectZero in cooperation with SDU Southern Denmark University.



The conference provided the SEC/N participants with academic and non-academic high-level insights on different topics that were discussed; among which were: transitioning towards climate neutrality, the importance of creating new business, energy efficiency, etc. App. 450 people participated in the first day event, many of these local citizens from Sonderborg and the nearby Flensburg city. Around 100 participants were from SEC and the SEC Network. See Annex A5 for the overall program.





The SEC meeting consisted of three main workshops:

- “What makes a city smart” – In this workshop the focus was on technologies and solutions for smart cities. The presented cases were all representing elements, that were part of the transition of the energy system towards a smart and flexible system utilizing the thermal storage capacity in buildings, flexible use of electricity for heat production (power to heat), flexible end use of electricity (demand side management) and flexible use of electricity in the transportation sector. During the workshop different cases were presented and discussed followed by a more general debate about how the transition towards a smart city can improve quality of life in our future cities. The participants number was around 200, including around 25 city representatives from countries around Europe. See Annex A6 for program.



- “SCC follower cities needs and challenges” – This workshop was focused on 10 specific EU SCC Follower-cities` needs and challenges initiated by 10 presentations, followed by a discussion among the city representatives and SEC and other SCC participants. The idea behind this workshop was to gather more insights on the experiences, needs and challenges that the SEC network cities have. Following, the discussion was continued in smaller groups and the focus was also on identifying different solutions needed from the follower cities. The conclusions from this workshop will form a valuable input for the SCC1 supply side discussion workshop scheduled 26. January 2018 in Brussels.

Present at this workshop were 62 participants from around 25 different cities. However, the workshop was livestreamed and achieved more than 500 livestream-viewers across Europe, most from Spain. The video was recorded and can be reviewed at the [event documentation on the SmartEnCityNetwork website](#).

See the Annex A7 for the event program.



- “The ProjectZero Sonderborg Study ENERGYtour” – the study tour offered the workshop and conference participants an opportunity to learn about three of Sonderborg’s SEC-projects – the ambition and the change approach told by the local people who created the showcases as part of the SmartEnCity project. The tour focused on Sonderborg’s new biogas busses, green district heating and energy renovation of house association buildings and flats. App. 100 people participated in the Sonderborg study tour. See Annex A8 for the tour invitation and program.



3.4 Organizing the SCC1 follower City workshop in Sonderborg – October 2017

As mentioned above, The SEC/N-group has been part of the EU SCC1 unification process. During the Sonderborg SEC Network event week a SCC1 Clustering meeting was organized and hosted by ProjectZero. The meeting was aimed at continuing the clustering discussions/activities among the 9 SCC Lighthouse Projects. Specific working tables were organized for the ongoing task groups on Business models, joint D&C, and joint replication. There were 48 participants in the meeting representing all 9 SCC Lighthouse projects.



3.5 Developing a toolbox concept as part of Deliverable D8.2

The main objective of SmartEnCity (SEC) is to develop a highly adaptable and replicable systemic approach to urban transformation into sustainable, smart and resource-efficient urban environments in Europe. This will be done through **integrated planning and implementing measures aimed at improving energy efficiency in the main (energy) consuming sectors of cities**, while increasing their supply of renewable energy.

In addition to implementing the smart solutions in the three LightHouse (LH) cities of the project along with the supporting activities (e.g. monitoring, evaluation, exploitation, dissemination and communication), another crucial element of the SEC project is **replication**. Building on the LH city activities, the aim of replication is to extend the experience gained and lessons learned during the SEC project to other cities, making it easier for them to implement similar smart city initiatives successfully in other contexts.

The **SEC replication toolkit**, described more closely in the first version of SmartEnCity D8.2 Report, is the main tool that should support cities in boosting their own smart city journey and learning from the SEC experience. **The toolkit provides inspiration on two main levels –**

- On a **strategic level**, based on the concepts of Smart Zero Carbon cities and integrated urban planning, it provides an overview of the strategic concepts that underpin replication in SEC and describes the SEC integrated approach.
- On a more **practical level**, it describes the SEC demonstration solutions that help to achieve the strategic smart city goals and provides guidelines for replicating the SEC approach in other urban contexts.

In addition, the main replication tools are presented, including a SEC/N self-service platform, webinars, study visits and IUP reviews, of which some are part of SEC/N activities. The replication toolkit describes:

- **Replication through city networks** – the way in which city networks operate and cities learn from each other;
- **Replication in SmartEnCity** – the strategic concepts that underpin replication in SEC (e.g. Smart Zero Carbon Cities and integrated urban planning);
- **Replicable elements in SmartEnCity** which gives an overview of the SmartEnCity integrated approach and demo solutions in all the LH cities;

- **Replicating the SmartEnCity journey** – guidelines for replicating the SmartEnCity integrated approach in other urban contexts;
- **SmartEnCity replication tools** – the tools that SmartEnCity offers for increasing replication readiness (e.g. webinars, study tours, capacity-building workshops and reports).

The SmartEnCity replication toolkit will guide and encourage the development of **individual IUPs** (integrated urban plans reflecting the SmartEnCity strategic concept) **and replication roadmaps** (presenting concrete technical solutions to be implemented) by SmartEnCity follower cities, SmartEnCity Network cities or other small and medium sized cities across Europe and elsewhere.

Ultimately, replication in SmartEnCity will lead to individual IUPs for each of the five partner cities in SmartEnCity and at least 15 ongoing integrated planning processes among the SEC/N. As such, replication toolkit **will offer valuable input for developing the replication roadmaps**, which will be designed as a means of repeating the main learnings of the LH cities and will include tools and actions needed to implement the IUPs and achieve the desired impact of the regeneration strategy, including the intended audience and scope of action in each local context where replication can happen.

In addition to the tangible outputs like IUPs and replication roadmaps, the replication toolkit also aims at broader levels of impact which are summarised in figure 1 below.

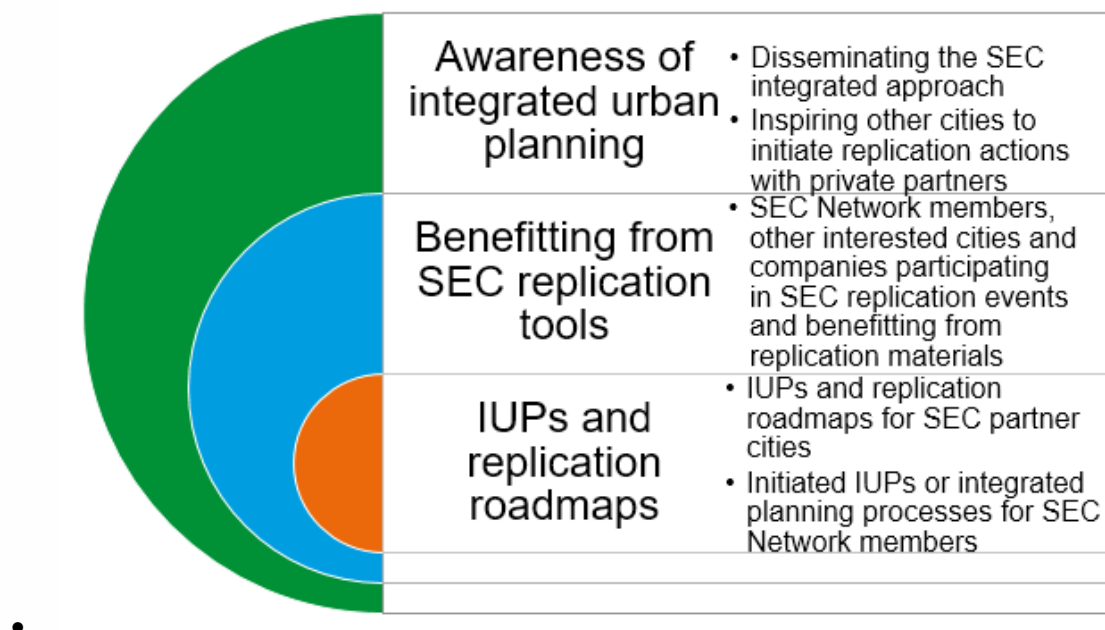


Figure 1: Expected impact of the SEC rep 1

3.6 Establishing a Smart Cities Network homepage

3.6.1 Initial SEC Network website – launched September 2016

The first version of the SEC/N website was launched by SEZ in September 2016. The SEC/N website was established as part of the main SEC-website: www.SmartEnCity.eu, but could also be accessed directly using the www.SmartEnCityNetwork.eu domain-name.

The SEC/N website allowed interested cities to learn about the Network and sign up for membership. Based on the request, the city would receive a **City Information Form** requesting basic information about the city plus information about city interests, strengths etc. within the SEC systemic parameters.

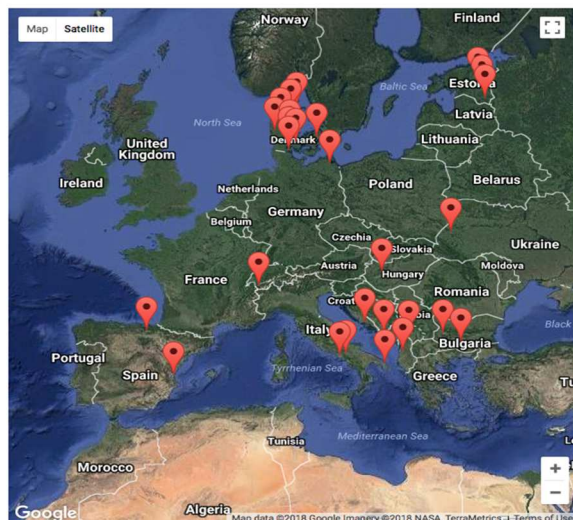


3.6.2 SEC Network website version 2.0 – launched September 2017

Following the initial SEC/N website launch in September 2016 by SEZ, a new more interactive network website was developed and launched by ZERO in September 2017.

The new website is integrated within the main SEC website under “network”. The new SEC/N website is tailored to fit the city journey of the SEC/N members by providing useful information on different solutions and initiatives they have been undertaking so far.

An interactive map is integrated, where all SEC/N member cities could be found and information relevant for their learnings along the city journey - can be published.



www.SmartEnCityNetwork.eu

Each pinpoint on the map represents a city in the SEC Network. Once clicked on a pinpoint, one is directed to the full information for the selected city. This function can be used to explore different experiences, solutions and initiatives for each city. The information comes from the city members by filling in a “City entry template”.

Dear City, welcome to the SmartEnCity network!

Please fill in the City entry template, which will be used to present information about your city in our SmartEnCity Network website.

Name of the City:	
Emblematic photo of the City:	
General information (including location, nr of inhabitants, size, CoV, SEAP, etc.):	
Energy interests of the City:	
E.g.: Wind, PV, district heating, energy efficiency, smart mobility, citizen engagement, waste management, ICT, etc.	
Other energy related activities, not listed above?	
Main contact (Name, position, organisation, email, photo):	

Not feeling inspired? Please have a look at our member's example down below:

Then the city information is divided in different solutions and initiatives tags and incorporated in accordance to the “Filter option” of the webpage.

Filter

City solutions and initiatives

☐ Smart buildings
 ☐ Smart electricity

☐ Smart urban mobility
 ☐ Smart street lighting

☐ ICT urban platform
 ☐ District energy

☐ Citizen engagement
 ☐ Governance and planning

☐ Waste
 ☐ Other

Filter

With the filter option, one can find information related to specific tags e.g. district energy, smart buildings, smart mobility, etc., which are shown as articles with relevant information, links and photo materials. This option as oppose to the interactive map provides the users to get insights on specific solutions and initiatives and not specific cities. Once a “tag” is triggered, all relevant information to the tag is shown, including all cities that have such solutions and initiatives.

Having these options of gathering information on the SEC network webpage provides the possibility to explore the data collected either by geographic interest - learning about different cities; or by a specific tag – learning about different smart energy solutions and initiatives across Europe, despite geography.

In addition, the website has calendar and news sections, which are updated on regular basis with information concerning the SEC network community. Events are documented, and all relevant information can be accessed from this library. There is also an easy access to subscribe to the SEC newsletter for the those interested.

Calendar





Currently, the SECN webpage consist of 27 SECN member cities, including the 3 Lighthouse cities – Sonderborg, Tartu, Vitoria-Gasteiz and the 2 Follower cities – Asenovgrad and Lecce.

3.7 Smart promotion of the SEC Network – including using other networks as multipliers

Communicating the SEC/N and its launch

After the Tartu launch-meeting, a SEC/N press-release was distributed to national press agencies in the SEC partner countries. See Annex A1 for the distributed press-release.

Communicating the SEC Network for recruitment of new member cities

During 2017 several flyers were produced to recruit new city members. See Annex A2 for such flyers.

Promoting the SEC network in the public domain

The SEC partners have actively promoted the SEC/N at national and international conferences, magazines etc. including the following dissemination events:

2016

- ERRIN Smart Cities Working Group presentation, Brussels (Belgium), February 2016
- Smart Denmark, vision workshop in Copenhagen, March 2016
- Urban Habitat RIS3 Basque Country Conference, Bilbao (Spain), April 2016
- The CITIES steering committee, Denmark Technical University, May 2016
- “Forum PA” network and events (Italy), May 2016
- Genova Smart week (Italy), May 2016
- Smart Cities 2.0 in Berlin (Germany), June 2016
- Workshop on “Evaluation and Decision Support Tools for sustainable renovation of urban districts” organized within the projects ITACA and FASUDIR (Italy), July 2016
- The Arendal Week in Norway, August 2016
- SmartEnCity article in the Danish KTC magazine, September 2016

- The KTC conference Smart Cities & Societies in Sonderborg (Denmark), October 2016
- Nordic Edge Smart City conference, Stavanger (Norway), October 2016
- Building sustainability SGBC16 World Congress in Stockholm, October 2016
- Smart City Event “Mindtrek” in Tampere (Finland), October 2016
- “Smart City Exhibition” in Bologna (Italy), October 2016
- The Lviv ECO Forum (Ukraine), October 2016
- The ZEROkonferenzen in Oslo (Norway), November 2016
- Smart City Expo World Congress, Barcelona (Spain), November 2016
- The Chinese NDRC National Development and Reform Commission, meeting in Sonderborg, November 2016
- Politiken (Danish leading national Newspaper) - one pager article about ProjectZero and SEC/N, December 2016

2017

- 2017 European Energy Transition Conference, SECN presented to app. 100 conference participants in Bordeaux, January 2017
- Smart City - Smart Strategy 2017 - sustainable development, SmartEnCity project and SECN presented to 300 participants in Copenhagen, February 2017



- University students from US, China & Mexico, February 2017
- C40 office in Copenhagen - roundtable discussion, February 2017
- Presentation to Japanese citizen group on study tour, February 2017
- DK-University SAVE-E workshop, March 2017
- Lunch meeting with UK ambassador to Denmark discussing participation from UK cities, March 2017



- VIP delegation from Chinese Hebei Province - DRC commission, March 2017



- Meeting with AAU Cities students, April 2017
- Magazin article "Sønderborg som Smart Energy City", March 2017
- KU Leuven (BE) presentation, March 2017
- Sustania SDG workshop, May 2017
- Climate conference in Hurdal, Norway, June 2017
- Brazil city discussion with Brazil university professor, June 2017
- Presentation for Danish Minister Løhde, June 2017



- Philips, Nordic - meeting with the Philips Nordic management, June 2017
- Climate workshop for Vietnam business guests, June 2017
- Aeroe Bright Green Business - meeting with the island of Aeroe and their business development team (focused on green ferries), June 2017
- House association workshop in Sønderborg, June 2017
- Danish newspaper article: Smarte byer skal have en ambition om andet end smart teknologi, August 2017
- City-council delegation visit fra Stevns, Denmark, September 2017
- ATTRACTIVE NORDIC TOWNS project - upstart of new Nordic development project in Oslo, September 2017

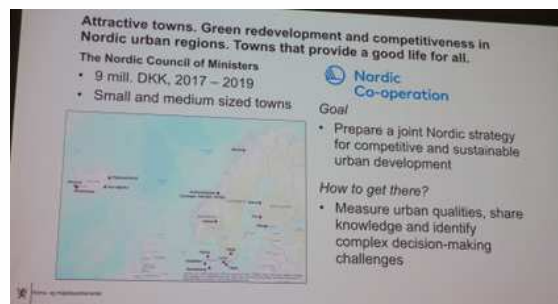


- Presentation to 25 China urban developer's visitors to Sønderborg, September 2017

- Presentation to 23 Belarus/Tartu visitors on ZEROtour in Sonderborg, September 2017
- Update presentation to the Bitten & Mads Clausen Foundation - the board of directors, September 2017
- Presentation to international climate journalist's visiting together with StateOfGreen, October 2017



- Presentation to ClimateNeutrality conference in Sonderborg, October 2017
- SEC/N Presentation at CEESN PANEL2050 in Prague, October 2017
- Climate conference in Sonderborg - P4 radio broadcast, October 2017
- Nordic SmartCities Stockholm, presentation and discussion panel participation, October 2017



- Danish national newspaper article: Information - article about the SEC/N conference in Sonderborg, October 2017
- Danish national newspaper advert: Berlingske - article about the SEC conference in Sonderborg, October 2017
- Presentation to Danish Energy & Climate Minister, Lars Christian Lilleholt, November 2017



- Danish national newspaper article: Information - article - Jeg ønsker mig mere ambitiøse klimarammer, December 2017



Peter Rathje, ZERO, presented the SEC/N at the Lviv ECO Forum in Ukraine and met with the Lviv Mayor, Mr. Andriy Sadovyi (to the right), together with the Danish ambassador to Ukraine (Mr. Christian Dons Christensen) to discuss, how Lviv can participate in the SEC/N. During the meeting, Mr. Andriy Sadovyi expressed his strong interest in Lviv joining the Network. Lviv has app. 750.000 citizens and approved their SEAP in 2012.

For a complete list of SEC/N dissemination activities, please visit EMDESK: implementation => Reporting => Dissemination.

The SEC/N promotion activity will continue and several SEC/N promotion presentations at conferences during 2018 are already scheduled.

Smart City-recruitment – using networks as multipliers

Municipalities are in many cases already members of local, regional or national climate initiatives. And in many cases, these networks have a need for new knowledge and discussions, or network have been terminated, as they were part of no longer existing projects and the associated cities have been left alone.

The strategy is therefore, to expand the SEC/N Network by recruiting relevant networks, which share the SEC/N value proposition. The CELSIUS Network, having 60 member cities, is such an example of a network, that have signed up for joining the SEC/N conditioned that district heating will be actively promoted by SEC/N.

However, we need to consider the risk watering down the essence in SEC/N if we move too fast bringing in large groups of cities with own agendas. The cities therefore, must comply with the SEC/N value proposition.

It is important to create a strong backbone of the core network. Probably 15+ cities, becoming “pioneers”, which we trust will move and invest resources into the SEC agenda. These 15 strong cities (cases) investing resources in SEC/N, will automatically generate interest from other cities. Existing city networks, like EnergyCities, across Europe have been identified. The SEC Network has been introduced to EnergyCities. The next step is to associate them with the SEC Network by testing the value proposition. Same process is being tested together with the EU SCC1 Network, where also small and medium sized cities are members.



energycities

3.8 Launching a sequence of SEC/N webinars

Webinars are considered part of WP9. However, a SEC/N webinar strategy has been developed as part of task 8.1 to create content and ramp up a burning platform for the SEC/N recruitment; much before the SEC project will be able to deliver content from the Lighthouse- and Follower cities.

The SEC/N webinar launch package include 5 webinars launched in December 2016 and ending in June 2017. The webinars address systemic/application subjects combined with city cases – based on case-cities from the SEC/N.

Each webinar will follow the below agenda and last max. 1 hour:

Welcome by webinar host	2-3 minutes
Short intro to scope	5 minutes
Content/purpose	20 minutes
2-3 cases/examples by case owners	20 minutes
Q&A	10 minutes
Conclusions	2-3 minutes

The webinars will be recorded and made available for download for SEC/N-members.

The following webinars have been carried out in Task 8.1:

- **SEC/N Webinar 1 – December 2016**

Strategic Energy Planning in countries and cities



Webinar content: Today many cities are lowering their carbon emissions. This is by adding more renewable energy, improving energy efficiency and saving energy. Many cities are in the early stages of this transition. This webinar presents an approach that cities can use in their transition to become a smart low carbon city. A case example from Denmark is used to illustrate some of the action that is happening in this area and share specific experiences from that country.

- **SEC/N Webinar 2 - February 2017**

Facilitating energy transition at city level

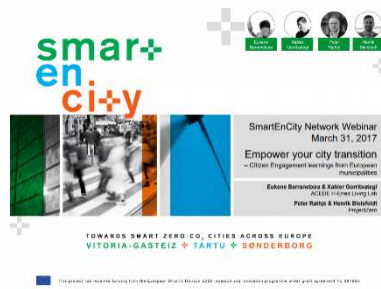


Webinar content: Building upon webinar 1, this webinar moves a step closer to the actions on city level, laying out a replicable approach for how to implement energy transition at city level. Based on learnings from Danish and Spanish

cities this webinar focused on the topics: stakeholder process, typical steps and relevant tools as three general principles in energy transition planning at city level. The focus is elaborated in case examples from Denmark and Spain.

- **SEC/N Webinar 3 - March 2017**

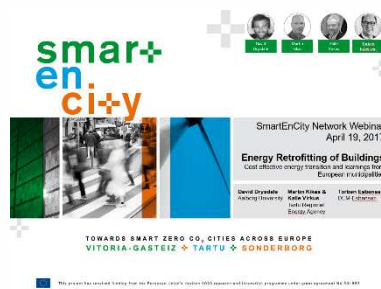
Empower your city transition – Citizen Engagement learnings from European municipalities



Webinar content: Technology and planning is not enough, people can speed up your transition. In this webinar you learn about why cities should engage its citizens and stakeholders, and learn from best practice examples from Spain and Denmark.

- **SEC/N Webinar 4 - April 2017**

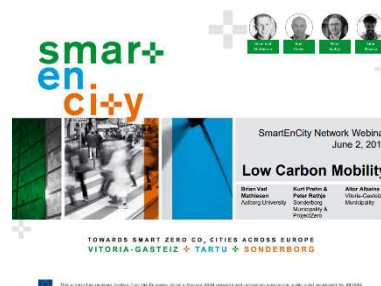
Energy Retrofitting of Buildings – Cost effective energy transition and learnings from European municipalities



Webinar content: Strengthen your city's cost-effective energy transition by balancing efforts for Energy Retrofitting of Buildings in relation to the energy system. In this webinar you learn about how cities benefit from the right balance and learn from best practice examples from Estonia and Denmark of how to unlock the potential of energy retrofitting of buildings in different contexts.

- **SEC/N Webinar 5 - June 02nd 2017**

Low Carbon Mobility



Webinar content: Create a Low Carbon Mobility system in your city to improve the livability and to support your integrated transition towards a smart zero carbon city. In this webinar you learn about the future role of city mobility systems, and from best practice examples from Denmark and Spain.

All webinars are recorded and stored in the SEC/N webinar library, which can be accessed and reviewed from the SEC/N website: <http://smartencity.eu/publications/webinars/> and also accessed through the SEC/N webpage: <http://smartencitynetwork.eu/>. Presentations from the webinars as PDFs are also available at these websites.

Review of SEC/N webinar performance and impact

Webinars 1-5 have had differences in advertisement, registrations, attendance and online views. The table below presents and compares some of the available information and statistics from the five webinars.

	Webinar 1	Webinar 2	Webinar 3	Webinar 4	Webinar 5
Advertised on SEC website	Yes	Yes	Yes	Yes	Yes
Advertised in SEC newsletter	No	Yes	No	No	No
Webinar invitation sent	9 days before	9 days before	10 days before	8 days before	15 days before
Invites sent	117	187	251	287	305
Project partner recipients	115	138	138	137	137
Project partners' share of recipients	98%	74%	55%	48%	45%
Invites sent to project partners (incl. colleagues)	115	141	150	157	157
Partner email domains' share of recipients	98%	75%	60%	55%	51%
Registrations	56	39	66	36	39
Attendance	33	20	37	19	15
Attending share of registrations	59%	51%	56%	53%	38%
Online view count	196	90	35	62	37

A few summarized statistics from webinars 1-5 based on the table:

- Total registrations: 236
- Total attendance: 124
- Total online views: 420

In the diagrams below, some of the differences and development in webinar 1-5 are illustrated regarding attendance, registrations, project partner participation, etc.

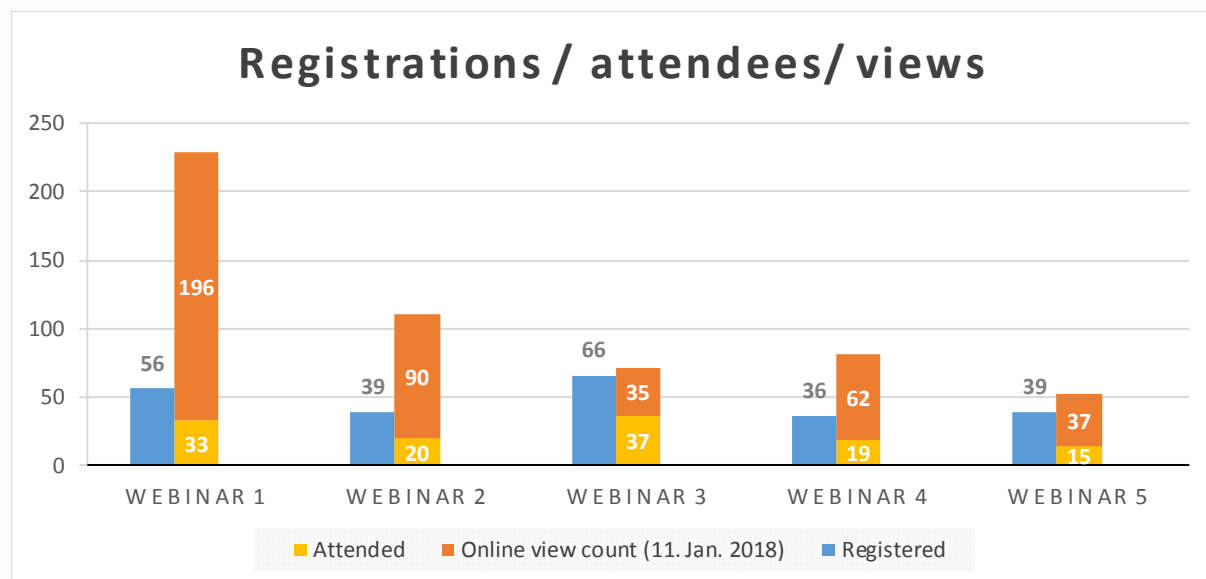


Figure 1 Number of registrations (blue), live attendance (yellow) and online views (orange) for webinars 1-5.

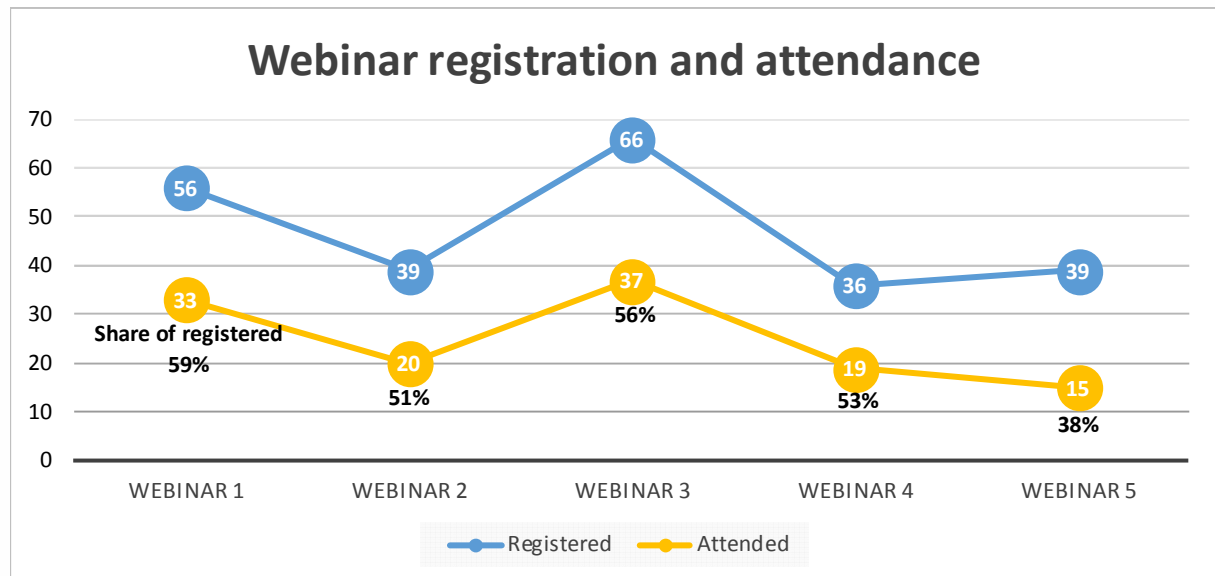


Figure 2 Number of registrations (blue) and live attendance (yellow) and the attendance share of registrations for webinars 1-5.

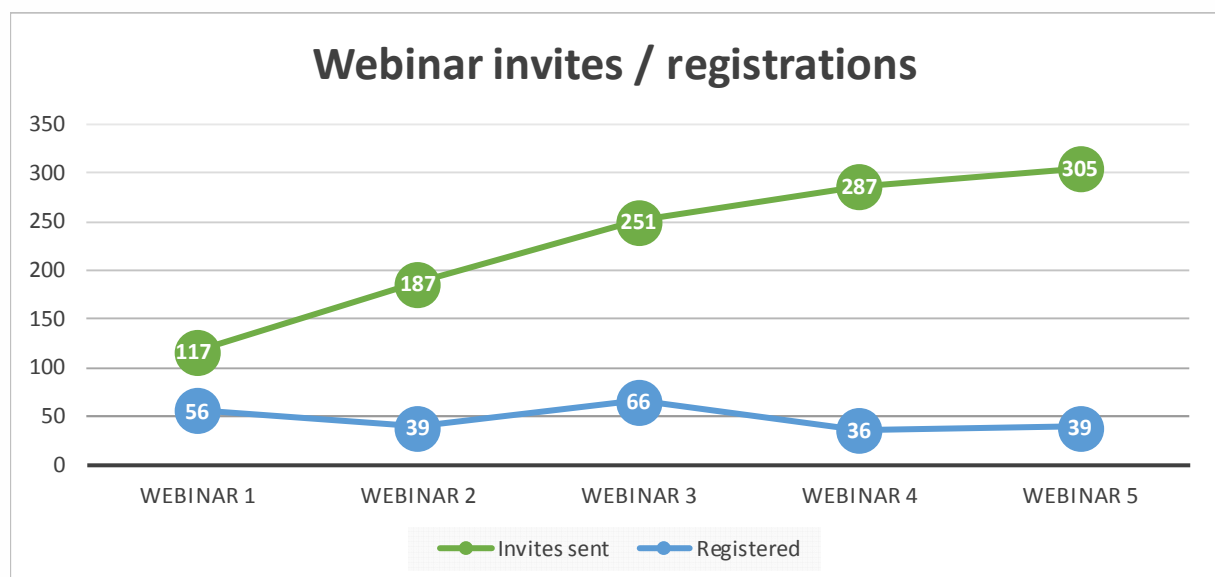


Figure 3 Number of invites sent (green) and registrations (blue) for webinars 1-5.

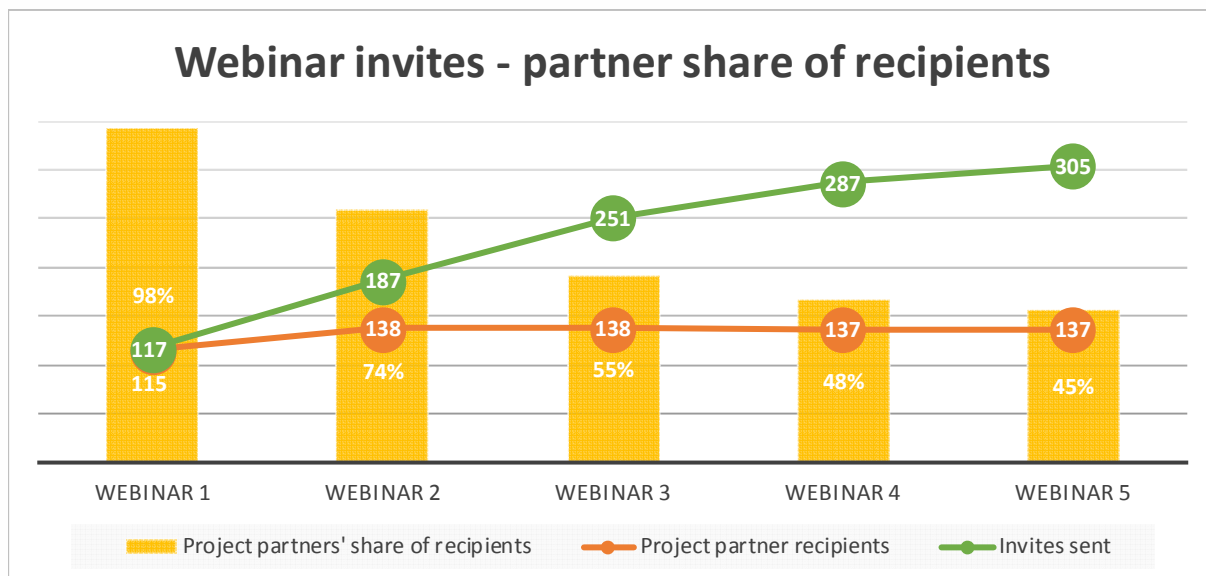


Figure 4 Number of invites sent (green), invites sent to project partners (orange) and project partner share of invites sent (yellow) for webinars 1-5.

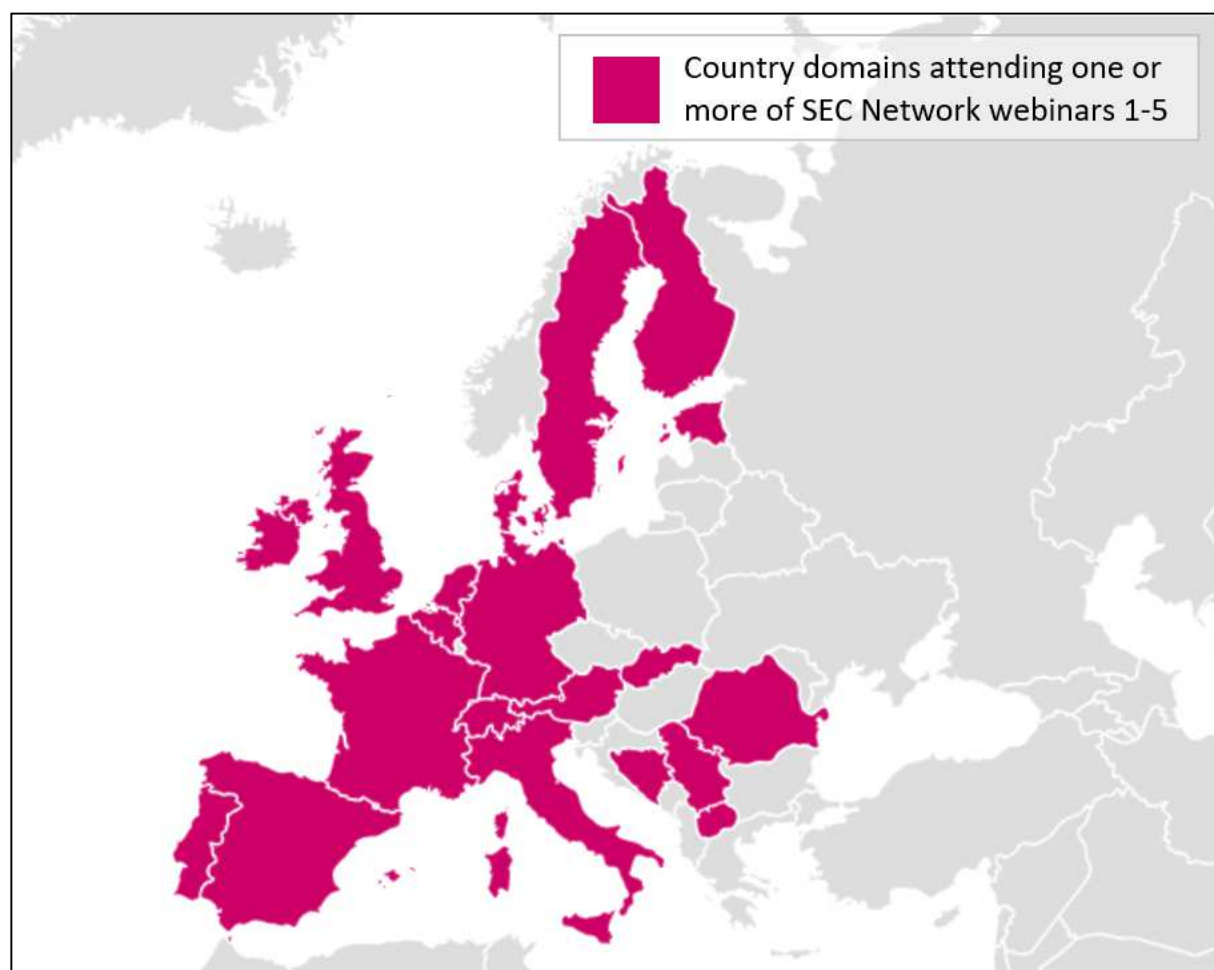


Figure 5 Map showing total geographical dissemination of attendance in SEC Network webinars 1-5 (based on country domains in email addresses used to attend).

More than 200 registrations from more than 20 countries and over 400 online views for webinars 1-5, reflect interest for the SEC Network and the webinars from the outside.

The SEC/N webinar concept is in this light viewed to be a valuable and productive tool to share knowledge, document; disseminate new findings/results and recruit new Network members.

Organizing additional SEC Network webinars in the remaining project period will be considered to support a continuous development of the SEC Network and knowledge sharing between project partners, network members and others with interest.

If additional webinars will be scheduled, they will build upon the technical and practical learnings from webinar 1-5 regarding choice of webinar topic, webinar presenters, organizing process, advertising, etc. Presentation of learnings from the demonstration projects in the lighthouse cities could for example be topics for additional webinars.

3.9 Signing up SEC/N members

New interested cities can sign up for membership of the SEC Network using the SEC/N website and the described procedure.

The following cities have so far signed up for the SEC Network using the SEC/N website or expressing/confirming their interest:

City name	Country	Contact person
Sonderborg	Denmark	Mr. Peter Rathje, ProjectZero Director
Vitoria-Gasteiz	Spain	Juan Carlos Escudero, Head of Information and innovation for Sustainability
Tartu	Estonia	Raimond Tamm, SmartEnCity coordinator
Asenovgrad	Bulgaria	Georgi Angelov, Head of Planning of investment activities, development of programs and projects
Lecce	Italy	Francesca Fasano
Peja	Kosovo	Mr. Durim Sheremeti, Chief of Mayors Cabinet
Greifswald	Germany	Mr. Stephan Braun, Climate Protection Officer
Lviv	Ukraine	Oleksandra Sendriy and Marta Romanyak, IT-department, Lviv City council
Tirana	Albania	Ms. Diana Mile, director of sustainability department, Tirana Municipality
Kaunas	Lithuania	City represented by Mr. James McGeever, Chief-specialist, University
Veszprem	Hungary	Ms. Borbala Barabas, Strategic manager

Jogeva	Estonia	Mr. Erki Teder, Specialist of development issues
Valencia	Spain	Mr. Corentin Girard, Energi Innovation Officer
Skive	Denmark	Mr. Lars Peter Salhøj, Plan & support manager
Aalborg	Denmark	Mr. Lars Michael Odgaard
Frederikshavn	Denmark	Mr. Bahram Dehghan
Dubrovnik	Croatia	Mr. Marko Cosmai, Head of DURA agency
Aversa	Italy	Ms. Tiziana D'Aniello, Energy, environment & smart eldeman
Benevento	Italy	Mr. Attilio Renzulli
Martigny	Switzerland	Ms. Martine Plomb
Ringkøbing-Skjern	Denmark	Mr. Henning Donslund
Horsens	Denmark	Mr. Søren Degn-Pedersen
Odense	Denmark	Mr. Martin Thomsen, Environmental inspector
Sofia	Bulgaria	Ms. Martina Nenova, Urban planning expert
Split	Croatia	Mr. Ranko Vujcic, Assistant to head, Department of Economy
Hoje-Taastrup	Denmark	Ms. Marie-Louise Lemgart, Climate consultant
Voru	Estonia	Ms. Diana Vene, Architect
Middelfart	Denmark	Mr. Morten Mejsten Westergaard

Also, the CELSIUS network has signed a SEC/N partnership agreement, which is expected to generate multiple Network city participants.

An active recruitment of further cities continues also through personal city contacts (e.g. friendship cities) of the Lighthouse and Follower cities.

3.10 Zero Carbon transition in cities - what seems to work

AAU will as part of a PhD project, study best case zero-carbon smart city practice in order to help develop the city network. The study will investigate how countries and cities aim to deliver zero-carbon smart city outcomes by looking at their goals, how the established networks have been initiated, and how they operate and function over time to achieve the goals.

The research may utilize some case cities from some countries that are useful demonstrations of successful outcomes. This analysis will illustrate how the countries can achieve the successes that they are aiming for and through the results of this analysis, the useful methods that can be replicated in the SEC/N will be highlighted.



Thus far, the PhD has investigated how city networks operate and what makes a city network successful. The analysis looked at other city networks, such as C40 and Covenant of Mayors, and academic research about city networks. It found that the SEC/N being developed in the SmartEnCity project, is a unique type of network which has not been developed previously.

This unique network possesses its own challenges and opportunities. An example of a challenge is that the term Smart City is a broad term with numerous elements to be addressed. The research shows that networks should be focused, and their value should be easy to understand. With a Smart City network, the challenge is about finding the value for cities across Europe with different contexts. Furthermore, the challenge is about finding the focus that the network should have, in terms of what information the network should focus on regarding the city journey towards low carbon. The term Smart City is a broad term with an unclear definition when trying to put it in practice and this must be clarified when designing and promoting the city network. There are numerous other challenges that need to be addressed as well, such as local needs of countries.

On the other hand, the Smart City network offers an opportunity to focus on how cities in Europe can transition their energy systems and become low carbon. This type of network has not been developed before, although similar networks such as C40 exist, they do not go into this level of detail. The city network can be a starting point for how cities can become low carbon practically and it is expected that the network is an initiator that can be built upon over time to advance the knowledge and the actions of cities in the future.

The PhD aims to address the network challenges further by investigating how cities can become low carbon technically. The PhD will aim to work with network members to understand their needs in terms of becoming low carbon. Building from this the PhD will investigate how these cities can become low carbon based on technical analysis and academic research. The aim of this is to inform how the city network can be designed and operated appropriately in order to help cities achieve their low carbon goals.

It is important that the network is developed in a way that it helps cities learn from each other and this requires that deeper research into achieving low carbon potentials is undertaken. To understand the way in which cities can achieve a low carbon transition, a technical analysis on the energy system needs to be undertaken and the ways in which this can be done and how it can be translated into understandable knowledge will be analysed in the PhD.

Furthermore, analysis will be done on the feasibility of relying on solution based approaches to low carbon cities compared with system based approaches which is new way of thinking about energy systems in cities.

3.11 Scope of work for next 12 months (M25-M36)

The goal for M36 is to achieve 60+ motivated and qualified city members of the SmartEnCity Network – all potentially aiming for implementing an IUP.

Coordination with other EU SCC projects based improved SCC1 discussions in 2018 is expected to generate more small and medium sized member cities to the SEC/N.

The above described already taken and implemented actions, will serve as the platform for implementing the SEC Network strategy as described in chapter 3.2.

During next 12 months (M25-M36), the SEC/N will focus on

- Defining the City Journey from SEAP to IUP
- Testing the City Journey methodology on Sonderborg and Asenovgrad
- Hosting a Bulgarian Network meeting in Asenovgrad on 15. March 2018 focused on Asenovgrad's IUP City Journey
- Participating in the association of energy efficient cities of Ukraine, June 2018
- Scaling up the network members by using city network as multipliers, eg. The Attractive Nordic Towns, the BSR Act Now network of cities, the Ukraine network of energy efficiency cities etc
- Engagement by interactions and participation
- Moving the initial network members into attitude by deepening the discussions
- Taking active part in the public discussions on Twitter, LinkedIn
- Continue sharing the learnings from SEC with the Network members

3.12 Other forward-looking issues to be addressed

Already in 2016, INEA communicated that EU aims at potentially integrating the now 9 Lighthouse City projects into one SCC1 Network. The SEC/N-group has joined the process and participated in the associated joint meetings and promoted the special needs of small and medium sized cities and municipalities. As one size Network might not fill all.

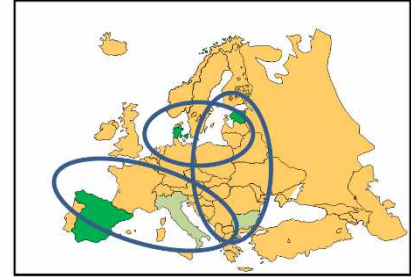
Managing the Network during 2016-2017 has indicated, that more (national) structure and set-up is required than originally expected.

In Denmark, 6 of the 8 SEC/N participating city-members have met in December 2017 and discussed how they can learn from each other and promote cities as climate transition drivers and in cooperation improve the national political framework. The SEC/N-DK subnetwork will continue its discussions during 2018.

Part of the forward-looking actions are to examine how a more regional or national Network structure across Europe can be established, to secure stronger synergies from cities/countries with similar (planning/construction) traditions, language, culture working together in sub-networks.

The sub-regional structure could be segmented into:

- A Nordic or Baltic Sea sub region
- A Mediterranean sub region
- An Eastern European sub region



Ideally the three Lighthouse cities and the two Follower cities should play more important roles in recruiting and facilitating national network members.

There seems to be a need for creating a Network administer-function, to secure that Network relevant information is frequently updated, available and to secure that members are directed to the website, webinars by newsletters, email etc.

These challenges and structural discussions regarding the SEC/N, will be shared with the EU SCC integration process, where also the SEC/N-group take active part. There are now 9 SCC lighthouse city projects with 27 lighthouse cities and 25 follower cities. Especially small medium sized follower cities among the 25 follower cities are potential members of the SEC/N. For more information, please visit the SCC website:

<http://www.smartcities-infosystem.eu/scc-lighthouse-projects>.

More cities will be recruited and added to the SEC/N, when the City Journey from SEAP to IUP is clarified during spring 2018.

4 Deviations to the plan

The task 8.1 management group decided to start the task earlier than scheduled, in order to be ready with a Network strategy and value proposition at the Tartu Network launch meeting 1. June 2016.

The management group have stucked to the plan and implemented everything that was foreseen and consider the outcome in sync with the expectations for M24.

5 Outputs for other WPs

Task 8.1 activities and Deliverable 8.3 are in very close symbioses with task 8.2 Replication Toolbox. The D8.2 Report and toolbox together with the content clarification of the IUP provide important approaches for refining the SEC/N strategy and value proposition.

The feedback and learnings from the SEC/N members will provide necessary input for further activities and developments in task 8.1 and task 8.4.

Annex A1. SEC/N launch press-release

SEC/N press-release distributed to partners, media-contacts and other stakeholders

SmartEnCity – Towards Smart Zero CO₂ Cities across Europe

29. June 2016

SmartEnCity is a project funded under the European Union's Horizon 2020 research and innovation programme. Under the coordination of Fundación TECNALIA Research & Innovation, 35 partners from 6 countries are working with joint forces on making Smart Zero Carbon Cities a reality in Europe – starting with the three demonstrator cities Vitoria-Gasteiz, Tartu and Sønderborg. During a first workshop in Tartu the project has now launched its network of associated cities.

SmartEnCity aims at developing pan-European replicable strategies to reduce energy demand and maximize renewable energy supply – with a special focus on small and medium sized cities. Actions cover activities in building retrofitting, integrated infrastructures, sustainable mobility and the use of ICT (Information and Communication Technologies).

The SmartEnCity approach will initially be defined in detail, planned and implemented in the **three Lighthouse demonstrators** Vitoria-Gasteiz in Spain, Tartu in Estonia and Sønderborg in Denmark. The process will be replicated in the two **Follower cities** Lecce (Italy) and Asenovgrad (Bulgaria).

“It is our vision to create Smart Zero Carbon Cities that are more sustainable and inclusive, improve citizens' quality of life, create jobs and wealth, and offer growth opportunities in equality”, underlines Francisco Rodríguez Pérez-Curiel, project coordinator of SmartEnCity.

In order to allow a maximum of European cities to learn from the experiences made within the project, a **SmartEnCity Network** of further cities will be set up. This network has now been officially launched in early June 2016 in Tartu (Estonia), where the Lighthouse cities met interested cities from the Baltic Sea region and discussed the Zero Carbon transition interest across borders and the mutual interest in the SmartEnCity Network.

“I am very happy with the response received at the SmartEnCity Network launch session in Tartu. There appears to be a strong city desire for implementing Zero Carbon initiatives and a need for sharing best practice integrated approaches among Europe's many ambitious cities”, says Peter Rathje, responsible project partner for building up the network and CEO of Sønderborg's ProjectZero. He continues with a strong appeal to all Europe's small and medium sized cities: “Join our SmartEnCity Network – you don't have to be a capital city to become a European front runner”.

Information on the SmartEnCity Network: <http://smartencitynetwork.eu>

About SmartEnCity

Grant agreement number:	691883
Duration:	66 months (February 2016 – July 2021)
Coordinator:	Fundación TECNALIA Research & Innovation
Consortium:	35 partners from 6 countries (Bulgaria, Denmark, Estonia, Germany, Italy, Spain)

SmartEnCity receives funding from the European Union's Horizon 2020 Research and Innovation programme.



Contact:

Fundación TECNALIA Research & Innovation

Francisco Rodríguez Pérez-Curiel / Silvia Urra Uriarte (Project Corodinators)

E-mail: francisco.rodriguez@tecnalia.com / silvia.urrea@tecnalia.com

Phone: +34 946 430 850

Press contact:

Steinbeis-Europa-Zentrum

Lena Ohlig

E-mail: ohlig@steinbeis-europa.de

Phone: +49 711 123 4033



Annex A2. Invitation to join the SEC/N flyer



Invitation to join the SmartEnCity Network

Are you a small or medium sized city with climate ambitions?

Cities are created to serve the citizen's needs. Cities are challenged by rapid growth, climate changes, job fluctuations and technological disruptions. However, ambitious cities can in a collaborative manner tackle these challenges and unlock new green growth opportunities.

We assume your city is ambitious and has already filed a SEAP (Sustainable Energy Action Plan) to the EU Covenant of Mayors - and aims at increasing the quality of life and citizen participation, and implementing new energy solutions based on a **Smart City platform** and **mindset**.

As a network member, you will:

- ✓ get access to our knowledge and learnings in smart city development and implementation through the SECN self-service platform
- ✓ be invited to network meetings, webinars, site visits
- ✓ arrange local workshops with the help of our experts
- ✓ receive the SmartEnCity newsletter

More than 20 cities across Europe have already joined the **SmartEnCity Network**!

WHAT IS HAPPENING AT THE MOMENT

- ✓ 4-5. October 2017, the third **SmartEnCity Network meeting** will take place, this time in Sønderborg, Denmark.
- ✓ Review current webinars from our webinar library (and check out upcoming webinars) here: <http://smartencity.eu/publications/webinars/>

You do not need to be a capital city to make a difference!

The SmartEnCity, is a project funded under the European Union's Horizon 2020 research and innovation programme, aiming at developing a systemic approach for transforming European cities into sustainable, smart and resource-efficient urban environments across Europe. Activities include retrofitting in buildings, integrating infrastructures, developing sustainable mobility and the intelligent use of information and communication technologies.

The SmartEnCity concept will be defined, planned and implemented in the three Lighthouse demonstrators Vitoria-Gasteiz (Spain), Tartu (Estonia) and Sønderborg (Denmark). The process will be replicated in the two Follower cities Lecce (Italy) and Asenovgrad (Bulgaria).

The **SmartEnCity Network** will provide the network, inspiration and tools, learnings from the SmartEnCity project and best practices from European cities. We expect you to share your knowledge and experience and benefit from others'.




[Peter.Rathje](mailto:Peter.Rathje@smartencity.eu)


 PeterRathje (Skype)


[LinkedIn](#)


[Twitter](#)

Learn more about our Network and participating cities on our [website](http://www.smartencity.eu/network/)
www.smartencity.eu/network/

We are looking forward to welcome you and your City to the SmartEnCity Network!

Sincerely,

Peter Rathje and Merit Tatar
SmartEnCity Replication leads



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 691883.



Annex A3. LECCE SEC/N meeting



SmartEnCity Project

- ✦ 3 Lighthouse cities: Vitoria-Gasteiz (Spain), Tartu (Estonia), Sønderborg (Denmark)
- ✦ 2 Follower cities: Lecce (Italy), Asenovgrad (Bulgaria)
- ✦ 35 Partners
- ✦ 28ME funding
- ✦ 5.5 years (02/2016 – 07/2021)

Main objectives

- ✦ To develop a systemic approach for transforming European cities into sustainable, smart and resource-efficient urban environments in Europe.
- ✦ To develop strategies that can be replicated throughout Europe in order to reduce energy demand and maximise renewable energy supply.

www.smartencity.eu

SmartEnCity Network Event 22 February 2017

MUST, Museo Storico Città di Lecce - Via degli Ammirati, 11 - Lecce

MORNING SESSION – “SEMINARS”

Moderator: **Brian Vad Mathiesen**

- ✦ 9:00 **Workshop summary**
Paolo Perrone – Mayor of Lecce City
Antonio Decaro – President of ANCI, National Association of Italian Municipalities
Damiano D'Autilia – Councillor of Lecce City
Raffaele Parlangeli – Lecce City
- ✦ 9:20 **Introduction to SmartEnCity Project + Network**
Francisco Rodriguez – Technalia, Peter Rathje – ProjectZero, SmartEnCity LH cities
- ✦ 10:00 **Energy and Smart Buildings**
Brian Vad Mathiesen – Aalborg University, Per-Alex Sørensen – PlanEnergi, Margherita Scotto – D'Appolonia S.p.A.
- ✦ 11:00 **Coffee break**
- ✦ 11:20 **Smart Urban Mobility**
Juan Carlos Escudero – Vitoria-Gasteiz City
Sergio Torre – Duferco Energia, Piero Pelizzaro – Milan City
- ✦ 12:20 **ICT for Smart Cities**
Adriana Agnini – Puglia Region, Urmo Lehtsalu – Tella, Raffaele Parlangeli – Lecce City
- ✦ 13:20 **Afternoon session teaser**
Paolo Testa – Anici
- ✦ 13:25 **Lunch break and networking**

AFTERNOON SESSION – “ROUNDTABLES”

Moderator: **Paolo Testa**

- ✦ 14:30 **Funding opportunities for Public Administrations**
D'Appolonia S.p.A.
- ✦ 14:45 **Feedback SmartEnCity network**
Peter Rathje – ProjectZero
- ✦ 15:00 **1st Roundtable: Energy and Smart Buildings**
Involved Municipalities and SmartEnCity experts – TBC
- ✦ 15:40 **2nd Roundtable: Smart Urban Mobility**
Involved Municipalities and SmartEnCity experts – TBC
- ✦ 16:20 **3th Roundtable: ICT for Smart Cities**
Involved Municipalities and SmartEnCity experts – TBC
- ✦ 17:00 **Wrap up “Aperitivo” and networking**

*‘You do not have to be a capital city
to make a major difference’*



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



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 691883







Annex A4. Agenda for SEC/N Meeting in LECCE

2. Network Event Agenda

Module	Time	Topics	Presentations	Speakers
Welcome	09:00-09:20	Briefing of workshop purpose and introduction to who is in the room		Lecce City
Morning session “Seminars” Moderator: Brian Vad Mathiesen	9:20-10:00	Introduction to SmartEnCity project + Network		Francisco Rodríguez – Tecnalia Peter Rathje – ProjectZero SmartEnCity LH cities
	10:00-11:00	Energy and Smart Buildings	Energy urban planning (20 min.)	Brian Vad Mathiesen – Aalborg University
			Barriers and solutions for district energy in Southern Europe (20 min.)	Per-Alex Sorensen – PlanEnergi
			Energy renovation of buildings (20 min.)	Margherita Scotto – D’Appolonia S.p.A.
	11:00-11:20	Coffee break		
	11:20-12:20	Smart Urban Mobility	Mobility urban planning (20 min.)	Juan Carlos Escudero – Vitoria-Gasteiz City
			Recharge stations distribution for electric cars (20 min.)	Sergio Torre – Duferco Energia
			Sharing mobility (20 min.)	Piero Pelizzaro – Milan City
	12:20-13:20	ICT for Smart Cities	Developing Smart Urban Spaces (20 min.)	Adriana Agrimi – Apulia Region
			ICT services for smart cities and smart homes (20 min.)	Urmo Lehtsalu – Telia
			Open data platform: Lecce Municipality case study (20 min.)	Lecce City
13:20-13:25	Afternoon session teaser		Paolo Testa – Anci	
Lunch	13:25-14:30	Lunch break and networking		
Afternoon session “Roundtables and open discussions” Moderator: Paolo Testa	14:30-14:45	Funding opportunities for Public Administrations		D’Appolonia S.p.A.
	14:45-15:00	Feedback SmartEnCity network		Peter Rathje – ProjectZero
	15:00-15:40	1st Roundtable: Energy and Smart Buildings	Involved Municipalities and SmartEnCity experts - TBC	
	15:40-16:20	2nd Roundtable: Smart Urban Mobility	Involved Municipalities and SmartEnCity experts - TBC	
	16:20-17:00	3th Roundtable: ICT for Smart Cities	Involved Municipalities and SmartEnCity experts - TBC	
	17:00-18:00	Wrap up ”Aperitivo” and networking		

Annex A5. Overall program for the “100% Climate Neutrality” conference and integrated SEC/N Meeting in Sonderborg

	Wednesday 04/10/2017	Thursday 05/10/2017	Friday 06/10/2017
Morning	100% Climate Neutrality SDU Conference Special focus: Smart & inclusive cities in a world of disruptions	Workshop SCC Follower cities needs and challenges	SCC1 Clustering Meeting
Afternoon	Workshop <i>What makes a city Smart?</i>	Organized demo tour	
Evening	Dinner at the Sonderborg Castle for guests and City Council	“Our land” - Folk music concert in the “Comwell teatersalen” 19.30 – 22.30	

	Follower Cities / SmartEnCity OPEN events
	Joint SCC1 event
	Climate conference Event
	Social event

Annex A6. What makes a city smart workshop in Sonderborg

SmartEnCity Network workshop

– What makes a city smart?

Timing:	Wednesday 4. October 2017 at 15.00 – 18.00
Location:	Alsion, Alsion Concert hall
Participants:	Follower cities, Network cities, Municipalities in the Southern Denmark Region, Scientists, Students
Moderator:	Henrik Bindslev, Dean, Southern Denmark University

In the workshop "What makes a city smart", the theme will be ICT framework for smart cities and actions already implemented or ready to implement to make a city smart. The presented cases are elements, that fits into the transition of the energy system to a smart and flexible system utilizing the thermal storage capacity in the buildings, flexible use of electricity to teat production (power to heat), flexible end use of electricity (demand side management) and flexible use of electricity in the transport sector.

This part of the smart city is the smart energy system, but during the workshop utilization of ICT and examples from a.o. Stockholm will open the discussion towards a broader definition of what can be the elements in a smart city.

The workshop will focus on presentation of cases, discussion of the cases and more principle discussions of how transition towards the smart city can improve quality of life in the city

15:00-15:05 Welcome

15:05-15:20 "The smart and integrated energy system approach", Per Alex Sørensen, PlanEnergi

15:20-15:40 "The role of ICT in smart cities" Urmo Lethsalu, Eesti Telekom AS

15:40-16:00 "Buildings as a thermal storage – a case study from Gothenbourg", Patrick Arvsell, Goteborgenergi AB

16:00-16:20 "Integration of the hidden refrigeration capacity as a heat pump in smart energy systems", Torben Funder, Danfoss A/S

16:20-16:30 Coffee break

16:30-16:50 "Demand side management of electricity in big industries", Lotte Gramkow, Clean, and Jørgen Johansen, Birn A/S

16:50-17:10 "The Parker project – grid balancing with electric vehicles", Maria Nataly Bañol Arias, DTU

17:10-17:30 "SmartCity Projects in Stockholm", Gustaf Landahl, City of Stockholm

17:30-17:50 "The smart city as a business opportunity", Michael Kjargaard Hansen, Danfoss A/S

17:50-18:00 Wrap up and good bye



Annex A7. SCC Follower city & SmartEnCity Network workshop in Sonderborg

SCC Follower city & SmartEnCity Network workshop

What is the need and challenges of the follower cities?

Timing:	Thursday 5. October 2017 at 09:00 – 13:30
Location:	Alsion, U109
Participants:	SCC follower cities, network cities and local municipalities in the Southern Denmark Region
Organizer:	PlanEnergi
Moderator:	Per Alex Sorensen, PlanEnergi & SmartEnCity partner

Workshop agenda:

- Welcome and introduction to the EU Smart Cities & Communities
 - The role of the SCC-projects and the obligations of the SCC follower-cities
- Follower cities express their needs and explain what challenges they are facing to develop their ideas
 - Follower cities express their visions, actions, needs and challenges in the transition process towards a smart city with zero or low carbon emissions
 - What is required to continue the city journey?
- Coffee break
- Thematic discussion in smaller groups – segmented approach
 - From needs to solutions
 - From challenges to competence and progress
- Joint presentation and discussion
 - Recommendations to the “supply side” workshop in Brussels
- Next step actions

The workshop conclusions will provide valuable insights for the SCC1 “supply side discussion” workshop scheduled early 2018 in Brussels.

Annex A8. Site tour program for Sonderborg

Site tour Sonderborg (by bus)

SmartEnCity

Timing:	Thursday 5. October 2017 at 14:30 – 18:00
Location:	the busses will depart from Alsion
Participants:	Guests from workshops and conference
Organizer:	Iben Nielsen, SONFOR

The SmartEnCity site tour will allow you to learn more about Sonderborg's SmartEnCity demonstration projects:

- **Biogas busses and e-mobility**
 - Biogas charging facility
 - How biking and e-mobility is integrated in the public transportation
 - Learnings, challenges
- **Green district heating**
 - Strategic energy planning as the basis for heat planning
 - Heating from multiple sources
 - Learnings, challenges
- **Building energy retrofit with citizen participation**
 - SØBO house association
 - Energy retrofit – energy savings and PV production
 - How citizens have been engaged
 - Observations, learnings, challenges

During the tour, we will stop at demo-locations and discuss with engaged stakeholders.

One or more of the new (biogas)busses will be transporting the visitors.

