

Latest news on the European Commission's policies on smart cities

European Innovation Partnership on Smart Cities and Communities
Building a Market for Smart Cities and Communities
Action Clusters General Assembly
ACTION CLUSTER SUSTAINABLE DISTRICTS AND
BUILT ENVIRONMENT

22 November 2016 Huis van de Nederlandse Provincies BRUSSELS

Orsola Irene Mautone

Unit C2 - DG Energy European Commission



ENERGY UNION: Commission CHALLENGES AND OPPORTUNITIES – FIVE DIMENSIONS



Modernise our economy by bringing down greenhouse gas emissions while creating jobs and growth

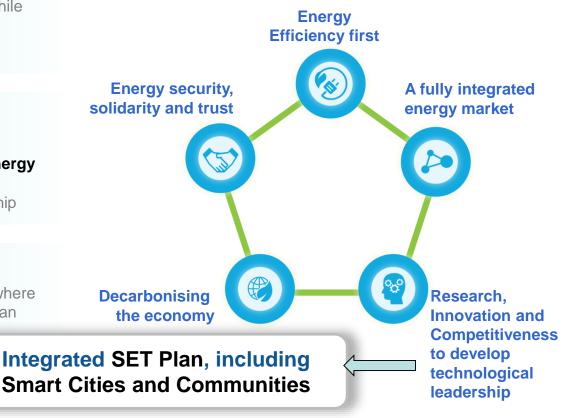


The EU as the world leader on renewable energy and placing energy efficiency first based on new technologies and industrial leadership



Ensure a socially fair transition where regions, cities and consumers play an active role

ENERGY UNION STRATEGY



The Energy Union aims at secure, sustainable, competitive, affordable energy.



The Strategic Energy Technology (SET) Plan



The Strategic Energy Technology (SET) Plan

Adopted in 2008

Set-up of **European Industrial Initiatives** for technologies with market impact up to 2020 for wind, solar, electricity grids, CCS, bioenergy, nuclear, smart cities, hydrogen Set-up of EERA for research beyond 2020





Integrated SET Plan Communication (2015)

Four core priorities (RES, consumers, energy efficiency, sustainable transport – in line with Energy Union) + CCS and nuclear

10 Actions: for each action a **Declaration of Intent** among countries (EU, EEA and Turkey) and with stakeholders

Action 3 on consumers



SET Plan Action n. 3 "Create technologies and services for smart homes that provide smart solutions to energy consumers"

THE INFLUENCE OF POSITIVE ENERGY BLOCKS

Target

Europe to be global role model/market leader in technology integration for and deployment of **net-zero energy/emission districts (ZEED)** with the aim **by 2025** to have at least **100 successful examples** synergistically-connected to the energy system in Europe and a strong export of related technologies.

"Positive Energy Blocks of various sizes can be used as innovation-pushing "seeding points" for these districts to showcase in highly concentrated form the integration of all the aspects that are needed for net–zero energy/emission districts. Their concept is intrinsically up-scalable and they are well embedded in the spatial, economic, technical, environmental, cultural and social context. They are by design an integral part of the district/city energy and mobility system."

https://setis.ec.europa.eu/system/files/action3_2_scc_declaration_of_intent.pdf



The European Innovation Partnership on Smart Cities & Communities (EIP-SCC)



4600 partners in 370 commitments

General roadmap for the SCC-EIP

Growing the community

Smart city ecosystems

for replicable high impact

solutions

Implementation Plan

Strategic

Gap analysis

Fragmented **Smart Cities** market

Past Future

Scaling up successful commitments



Targets for 2016

- 100 cities collaborating in different groupings to align and subsequently bundle demand for tested solutions.
- 100 key industry partners cooperating with these cities in developing innovative solutions, the respective business models and innovative financing solutions to de-risk city investments and benefit SMEs growth.



SCC-EIP
Smart Cities and Communities
European Innovation Partnership

4600 partners,370 commitments,31 countries.

It is about scale, acceleration, impact, common solutions, integrated approaches and collaboration.

Focus on Energy, Transport and ICT



Action clusters



Citizen focus



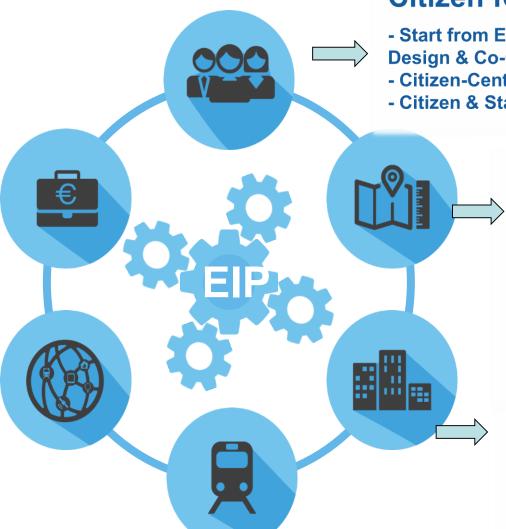
- Citizen-Centric Approach to Data
- Citizen & Stakeholders Communication Platforms

Policy and regulations/ integrated planning

- From Planning to Implementation
- Tools for Decision Making and Benchmarking
- Six Nations Forum
- Governance for Cultural Heritage (coming soon)

Sustainable districts and built environment

- Small giants
- Positive energy blocks



Action clusters



Initiatives (2/2)

Business models, finance & procurement

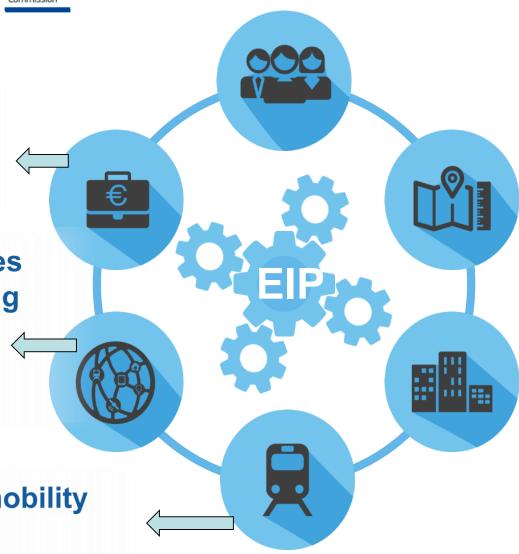
Innovative business model use cases

Integrated infrastructures and processes (including Open Data)

- Humble lampposts
- Urban platforms

Sustainable urban mobility

- Electromobility
- New mobility services





Targets for 2017

- Potential new call for commitments
- Further scale-up of the initiatives
- Re-launch of the High Level Group
- New interactive and collaborative tools for the Market Place's web site
- Next General Assembly mid 2017

How to join the SCC-EIP?

- Create a public profile at https://eu-smartcities.eu/user/register.
- Join an Action Cluster to provide your specific expertise on a certain issue.



Orsola Irene MAUTONE
European Commission
DG Energy
orsola.mautone@ec.europa.eu

18/11/2016



SET Plan Integrated Roadmap (13 themes)

ENERGY UNION R&I & Competitiveness priorities

SET Plan (10 key actions)

T10: Development of renewables

T8: System flexibility

T1: Engaging consumers

T2: Smart technologies for consumers

T6: Modernising the electricity grid

T7: Energy storage T8: System flexibility

T9: Smart cities & communities

T3: Energy efficiency in buildings

T4: Energy efficiency in heating & cooling

T5: Energy efficiency in industry & services

T7: Energy storage

T13: Biofuels, fuel cells & hydrogen, alternative fuels

T11: Carbon capture storage/use

T12: Nuclear energy

N°1 in Renewables

Smart EU Energy System with consumers at the centre 3. New technologies & services for consumers

system

4. Resilience & security of energy system

1. Performantrenewable

technologies integrated in the

2. Reduce costs of technologies

Efficient Energy Systems

> Sustainable Transport

- New materials & technologies for buildings
- 6. Energy efficiency for industry
- 7. Competitive in global battery sector (e-mobility)
- 8. Renewable fuels

9. CCS/U

10. Nuclear Safety