WORKSHOP: Technical training on how to set Targets for the Global Covenant

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Overview JRC role and support



Godoy Cruz 26 September 2017



European Commission



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The Joint Research Centre at a glance

3000 staff

Almost 75% are scientists and researchers. Headquarters in Brussels and research facilities located in 5 Member States.





The Joint Research Center



The Joint Research Centre is a Directorate General of the European Commission

Vision:

"To play a central role in creating, managing and making sense of the collective scientific knowledge for better EU policy."

Mission:

"As the science and knowledge service of the Commission our mission is to support EU policies with independent evidence throughout the whole policy cycle."



The JRC CoM role

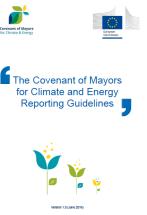


To ensure the overall scientific coherence of the initiative, by providing scientific-technical support to the development, implementation and monitoring of the CoM

Set the methodological basis of the initiative including

- Guidebooks for local authorities

- Development of specific reporting monitoring tools & instructions



Approval and SE(A)CAP feedback procedure







Methodological adaptation (Regions of the world)





Capacity building

(technical trainings for cities and regions)





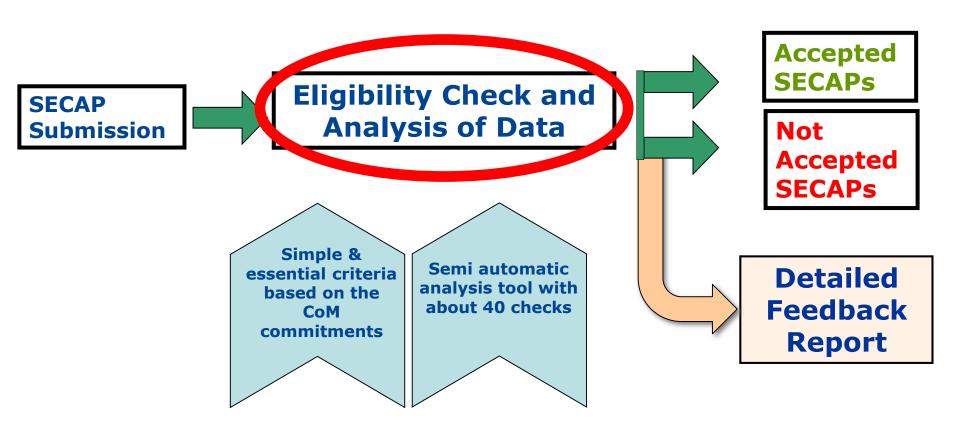
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SECAP validation and CoM monitoring requirements











Three steps

1. Eligibility check

To check that the SECAP is **consistent with the Covenant formal commitments** and principles (as defined in the commitment document)

2. Data coherence check

To check that **the data in the template are coherent and complete** (mainly based on a computer-assisted analysis)

3. Feedback report

To provide the Signatory with the **results of the analysis and concrete recommendations** for improvement





Eligibility check

- 1. The SE(C)AP must be **approved by the municipal council** or equivalent body
- 2. The SE(C)AP must contain a clear reference to the CO₂ reduction objective by 2020 (>=20%) and/or by 2030 (>=40%)
- 3. The **results of BEI** and of the climate **R&VA** must be provided
- 4. The SE(C)AP must include a **set of actions in the key sectors** of activity
- 5. The SE(C)AP template must be correctly filled-in
- 6. The data provided must be coherent and complete

Data coherence check

SECAPs that do not comply with all the above criteria cannot be accepted



Sectors / Fields of action

Municipal & public lighting	\checkmark
Residential	\checkmark
Tertiary	\checkmark
Transport	\checkmark
Local energy production	Optional
Local heat/cold production	Optional
Industries (excl. ETS sector)	Optional
Other sectors	See guidebook



4 KEY SECTORS whose inclusion is ← highly recommended

For mitigation, to be eligible a SE(C)AP must include:

 ✓ BEI, covering at least 3 out of 4 key sectors
 ✓ A list of concrete measures, covering at least the municipal sector and one or more other key sectors







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FEEDBACK REPORT

Aberdeen (UK)

Foreword

The present document is the feedback report from the Covenant of Mayors (CoM) Technical Helpdesk after having completed the analysis of your Sustainable Energy Action Plan (SEAP).

The analysis is essentially focusing on the compliance of the SEAP with the Covenant formal commitments and principles as well as on the evaluation of the completeness and consistency of the data inserted in the SEAP template. The latter is mainly based on a computer-assisted analysis performed on the data you inserted in the online SEAP template. The selection and definition of adequate actions aiming at achieving your emissions reduction objective are entirely left to your responsibility as they need to be tailor-made on your territorial circumstances.

The feedback report serves the purpose of informing the signatory on whether its SEAP fulfils the following criteria:

- 1. The SEAP must be approved by an official body (in principle the municipal council).
- The SEAP must clearly specify what is your overall CO₂ reduction objective by 2020 (20% as a minimum).
- The results of the Baseline Emission Inventory (BEI) must be provided and must cover the key sectors of activity.
- 4. The SEAP must include a set of actions in the key sectors of activity.
- 5. The SEAP template must be correctly filled-in.
- 6. The data inserted in the SEAP template must be coherent and complete.

CASES

-

- Accepted
- Non accepted, mayor
 issues preventing
 accepting the plan,
 signatory asked to redevelop
- On hold, issues preventing the approval, but easily addressed. Precontatc message





For Adaptation

Criteria of conformity

Criteria of completeness

Criteria of coherence

Criteria of quantification

Criteria of technical robustness



Monitoring : Signatories commitment



ANNEX I

THE COVENANT OF MAYORS STEP-BY-STEP PROCESS & GUIDING PRINCIPLES

A COMMON ROADMAP FOR A SHARED VISION:

In order to meet their mitigation and adaptation targets, Covenant of Mayors Signatories commit to a series of steps:

STEPS \ PILLARS	MITIGATION	ADAPTATION	
1) Initiation and baseline review	Preparing a Baseline Emission Inventory	Preparing a Climate Change Risk and Vulnerability Assessment	
2) Strategic target setting & planning	Submitting a Sustainable Energy and Climate Action Plan (SECAP) and mainstreaming mitigation and adaptation* considerations into relevant policies, strategies and plans_ within two years following the municipal council decision		
3) Implementation, monitoring and reporting	Report progress every second year following the SECAP submission in the initiative's platform		

* The adaptation strategy should be part of the SECAP and/or developed and mainstreamed in (a) separate document(s). Signatories can opt for the format of their choice – see the "adaptation pathway" paragraph hereafter.



Why is monitoring important?



 To monitor how actions defined in SECAPs are progressing and evaluate their effects towards the targets

 To identify the need of adjustments to the plan, e.g. corrective measures

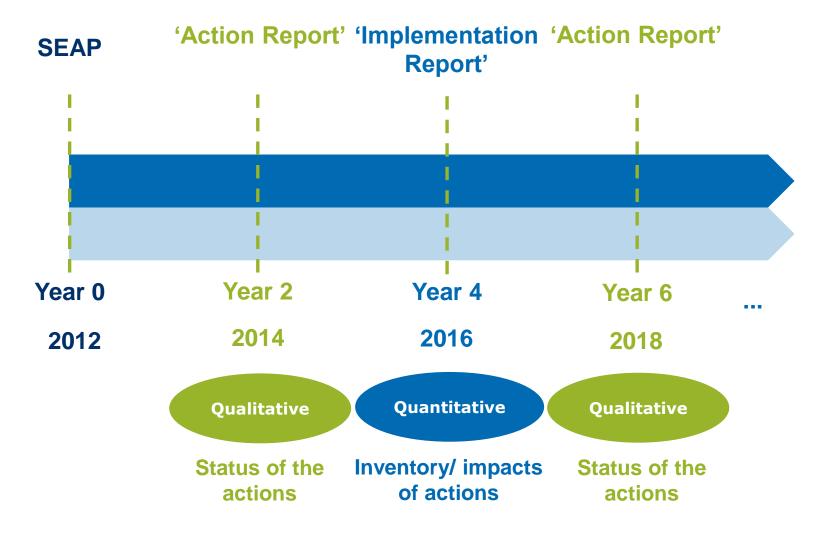
•To take new opportunities not initially foreseen, e.g. changes to the national/international context

Is the signatory on track to reach the target?



CoM monitoring requirements







MONITORING EVALUATION



JRC is currently developing an automatized web based tool for the monitoring evaluation

- Only for the **quantitative monitoring** reports, Monitoring emission inventories(MEI)
- Auto generated when signatory introduces the MEI data
- The evaluation in this case **is not an approval**, but a collection of improvements suggestions



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Methodological adaptation





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Methodological adaptation at global level

	EU-28	Eastern Partnership Cities	Southern Partnership Cities
Target	40% by 2030	30% by 2030	Beyond the NDCs
Reduction target	Absolute terms [tCO ₂]	Absolute terms [tCO ₂]	Absolute terms [tCO ₂
as compared to BEI emissions	Relative terms [tCO ₂ /capita]	Relative terms [tCO ₂ /capita]	Relative terms [tCO ₂ /capita]
as compared to BAU emissions	Not allowed	Absolute terms [tCO2]	Absolute terms [tCO ₂]
Base year	1990 recommended	A recent year representative of current situation	1990 recommended or if data is not available more recent year
Key sectors	CoM EU key sectors	As CoM EU + solid waste and waste water recommended	As CoM EU + solid waste and waste water recommended



Methodological adaptation at global level

Main Outputs:

- ✓ CoM South Mediterranean guidebook
- ✓ CoM East guidebook
- ✓ Methodological adaptation to 2030-New reporting platform
- ✓ Work on SSA ongoing (guidebook)
- ✓ Ongoing update of the EU guidebook✓ …



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JRC role: Overall assessment of the initiative





JRC publication on CoM



The twenty-second session of the Conference of the Parties: European Union Energy Day-Energy for Cities

Marrakech, November 14th 2016



JRC SCIENCE FOR POLICY REPORT

Covenant of Mayors: Greenhouse Gas Emissions Achievements and Projections





JRC SCIENCE FOR POLICY REPORT

The Covenant of Mayors: In-depth Analysis of Sustainable Energy Actions Plans



JRC SCIENCE FOR POLICY REPORT

Covenant of Mayors in figures: 8-year assessment

> Kona A., Melica G., Bertoldi P., Rivas Calvete S., Koffi B., Iancu A., Zancanella P., Janssens-Maenhout G. Dallemand J.F.

2017



FOCUS OF THE ASSESSMENT



Based on quantitative reports

- Trends analysis on:
- Energy consumption
- ✓ Share of biofuels on total fuel consumption
- Share of local energy production on total energy consumption
- Emissions
- Achievements projections

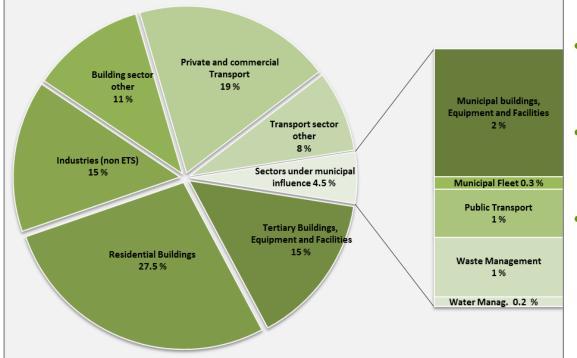


MAIN FINDINGS ON 2016 ASSESSMENT



Priority areas for action EU CoM

The choice of sectors to tackle and of specific measures to implement is entirely left to the responsibility of the signatory, depending on:

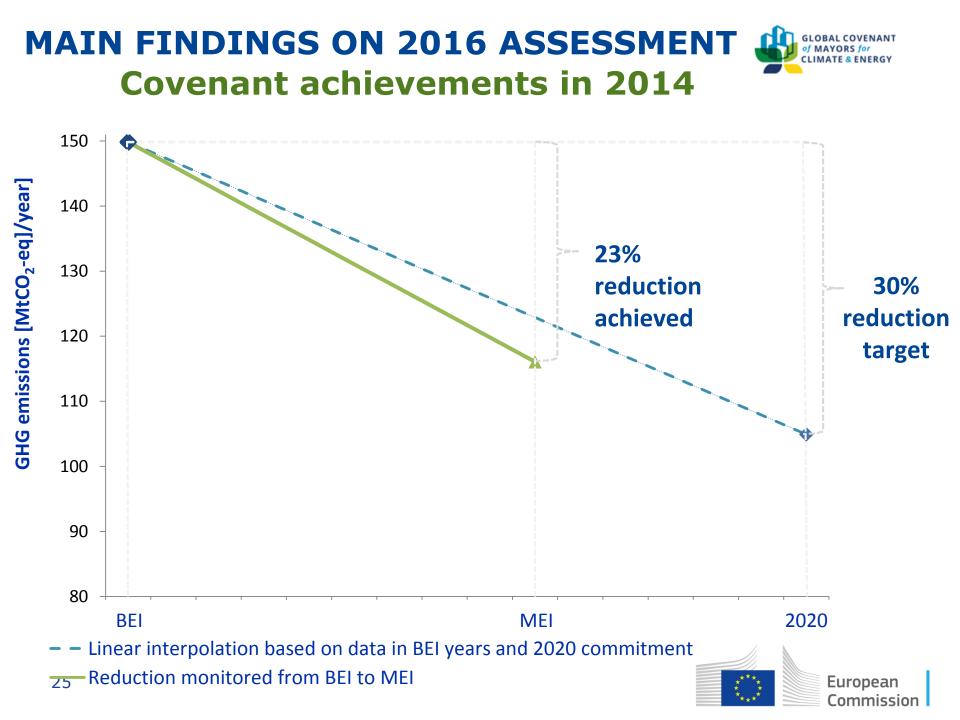


Breakdown of GHG emissions in BEI (951 Mt CO2-eq/year)

political mandate of the Mayor

- national framework regulations, grants, etc.
- size of the local authority availability of human & financial resources, expertise, etc.





MAIN FINDINGS ON 2016 ASSESSMENT

- Combination of effective urban energy policies and better coordination between national and local governments is crucial for the potential of the urban mitigation of climate change
- Climate mitigation and sustainable energy actions adopted at the local level are interconnected:
 - improving energy efficiency through building regulations
 - increasing the share of renewable energy
 - integrating district energy systems
 - a gradual transformation to more efficient and sustainable transportation



MAIN FINDINGS ON 2016 ASSESSMENT 4



GHG emissions decrease

- Overall emission reduction achieved 23 % driven by:
- The reduction of final energy consumptions of 18% between baseline and monitoring inventories;
- The increased share of renewables on total final energy consumption of 7 percentage points between baseline and monitoring inventories.





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