

FEEDBACK REPORT

Sahab (JO)

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).
2. The SEAP must clearly specify what is your overall CO₂ reduction objective by 2020 (20% as a minimum).
3. 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.

The present report also provides observations and suggestions for improvement, which we recommend that you take into consideration as much as possible. Nevertheless, in some instances our remarks might just point out peculiarities which do not need to be addressed because they find their explanation to be in the particular circumstances occurring within your territory.

Overall evaluation

We are pleased to announce that your Sustainable Energy Action Plan meets the six criteria described above and therefore it has been accepted. We wish to congratulate you for this achievement! This has been made publicly visible on the Covenant of Mayors website.

We also appreciate the identification of Sahab specific challenges and the strategic vision to cut CO₂ emissions in the main sectors of activities which under the municipality's authority, e.g.: municipal buildings, street lighting as well as in the Transport sector.

In the next section you will find some observations regarding your SEAP template and some recommendations for improvement. We kindly ask you to address them and, if relevant, carry out the suggested modifications.

The Covenant of Mayors Technical Helpdesk would like to thank you once again for the time spent and the efforts that you have devoted to producing your Sustainable Energy Action Plan.

With best wishes and kindest regards,

The Covenant of Mayors Technical Helpdesk

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Ispra, 16th February 2017



Detailed comments on your SEAP template

CO2 Baseline Emissions Inventory (BEI) - 2014

1) No HEAT/COLD is reported to be produced locally while its consumption is reported in Table A to be equal to 70 MWh. This is unusual because it would mean that all the HEAT/COLD consumed within your territory is imported. Please double-check your data.

2) The emission factor for LOCAL ELECTRICITY production from PHOTOVOLTAICS plants here reported significantly deviates from the one reported in the guidebook. This is unusual. Please double-check your data.

3) The emission factor for DIESEL and GASOLINE here reported significantly deviates from the ones reported in the guidebook, for the LCA approach. Please double-check your data.

SEAP

4) The sum of the estimates per action is higher than the sum of the estimates per sector (green cells). Please double-check your data for the following sectors [MUNICIPAL_BUILDINGS_EQUIPMENT_FACILITIES, RESIDENTIAL_BUILDINGS, INDUSTRY, LOCAL_ELECTRICITY_PRODUCTION, OTHERS]

5) The estimated emission savings (t CO₂/MWh) reported for some actions of your SEAP are unusually high or unusually low. Please, double-check your data for the following Key Actions:

- Installing Solar Water Heaters instead of the electric heaters
- Replacing conventional small passenger Municipality cars with hybrid cars.
- Solid waste management and Waste sorting
- Public awareness unit
- Insulating walls and roofs in 100 new houses.
- Install low-flow shower heads
- Replace old refrigerator with a new, Energy Star® model
- Promote solar cells for houses (subsidies)
- Using Regenerative burners instead of conventional burners in Steel Reheating industry.
- Accelerate conversion of organic waste to energy using anaerobic digestion
- Installing Solar water heaters instead of the Electric heaters for resident & private buildings

6) The Energy savings and/or Renewable energy production and/or CO₂ reduction field[s] have not been inserted for one or more of the measures of your SEAP. Please, review the following list and double-check your data.

Key Action named : 100000 trees in Sahab

Key Action named : planning green corridors in the city

Key Action named : Make walking easier and safer

Key Action named : Develop and implement an urban tree plan to grow the canopy

7) The CO₂ REDUCTION ESTIMATION IN 2020 indicated for the BUILDING sector is higher than the emissions inserted for that sector in TABLE B of the BEI which are equal to -0.004 tCO₂/tCO₂eq for the year 2014. Please, double-check your data.

8) The ESTIMATED ENERGY SAVING TARGET PER SECTOR IN 2020 (MWh) for the BUILDING sector is equal to 23629.000 MWh. Please note that this value is higher than the energy consumption inserted for that sector in TABLE A of the BEI (2518.000MWh). Please, revise your data.

9) The ESTIMATED ENERGY SAVING TARGET PER SECTOR IN 2020 (MWh) for the TRANSPORT sector is equal to 43750.000 MWh. Please note that this value is higher than the energy consumption inserted for that sector in TABLE A of the BEI (880.000MWh). Please, revise your data.

10) Please note that the TOTAL CO₂ REDUCTION ESTIMATION IN 2020 is negligible compared to the amount of GHG emissions inserted in the BEI and is insufficient to reach you overall emission reduction target. If this is because most of your measures have not been quantified in terms of expected GHG reductions, we would be grateful if you could insert further estimations when the data will be available to you. Otherwise we strongly recommend you to insert other relevant actions in order to be able to achieve your set target.

11) The CO₂ REDUCTION ESTIMATION IN 2020 indicated for the BUILDING sector is equal to 13655.000 tCO₂/tCO₂eq which, according to the results reported in the table "Your Emission Inventory" of your BEI, represents -341375000% of the emissions of that sector. We recommend you to make sure that the measures planned for this sector are ambitious enough to contribute to your total reduction target.

12) The CO₂ REDUCTION ESTIMATION IN 2020 indicated for the TRANSPORT sector is equal to 11185.000 tCO₂/tCO₂eq which, according to the results reported in the table "Your Emission Inventory" of your BEI, represents -186416666.67% of the emissions of that sector. We recommend you to make sure that the measures planned for this sector are ambitious enough to contribute to your total reduction target.

13) According to your template, one or more key actions alone already contribute to more than 25% of your total estimated reduction target. You may consider appropriate to revise your data. If your data is correct, we recommend you thoroughly monitor the implementation of this key action, as failure to implement it may jeopardise the achievement of your target:

100000 trees in Sahab

Develop and implement an urban tree plan to grow the canopy

The Covenant of Mayors Technical Helpdesk is jointly managed by the Institute for Energy and Transport and the Institute for Environment and Sustainability of the European Commission Joint Research Centre and the Covenant of Mayors Office in Brussels.

Please note that this document and the consequent possible SEAP acceptance are by no means related to the Strategic Environmental Assessment provisions set in the Directive 2001/42/EC of the European Parliament and of the Council of 27 June 2001 on the assessment of the effects of certain plans and programs on the environment or to any other possible assessment: this feedback is to be intended only for the purposes set within the context of the Covenant of Mayor initiative.

The output of this report is based on an automatic analysis of the data provided in the SEAP template and does not imply any approval of its content by the European Commission. The responsibility of the measures and figures reported in the SEAP document and template remains with its authors.

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