



ACTIVITY 1.2

REVISION OF LOCAL ENERGY PLANS THROUGH INVOLVEMENT OF CITIZENS AND OTHER STAKEHOLDERS (INDUSTRY, NGO)

DELIVERABLE 1.2.1.

**STATUS QUO ANALYSIS OF LOCAL ENERGY
PLANS - Hungary**

09 2019



Introduction

At the beginning of ENES-CE project, local energy and climate action plans are assessed, and interviews are taken with local stakeholders, to gather information about the progress of the local mitigation and adaptation actions.

The existing energy plans in partner municipalities are revised in terms of their data quality, proposed projects, their economic and GHG emission savings.

Status quo analysis of local energy plans

The analysis can be done by the project partner, by an expert or by the organization that prepared the SECAP study - in cooperation with the municipality. It depends on the local circumstances.

Please, go through the actions of the local SECAP one by one and evaluate the progress of the actions according to the evaluation parameters you see below. Feel free to add as much information as you can, including additional actions.

Evaluation parameters

Progress of the action

- 1 - Not started
- 2 - Minimal progress
- 3 - Progress at an appropriate pace
- 4 - Will be completed in a short time
- 5 - Completed
- 0 - Do not know

Need for involvement of external experts / stakeholders / citizen groups

- 1 - Not needed
- 2 - Required
- 3 - Indispensable
- 0 - Do not know

Data quality the action based on

- 1 - Inadequate
- 2 - Adequate
- 0 - Do not know



Importance of the action in reducing the city's CO2-emissions / adaptation to climate change

- 1 - Moderate
- 2 - Very important
- 3 - Indispensable
- 0 - Do not know

MITIGATION ACTIONS OF THE SECAP

Action 1

Name of the action: **Retrofitting 55 public buildings**

Progress of the action so far (0-5): 1

Data quality the action based on (0-2): 2

Importance of the action in reducing the city's CO2-emissions / adaptation to climate change (0-3): 1

Need for involvement of additional experts / stakeholders / citizen groups (0-3): 3

Name the specific expert / stakeholder / citizen groups required: technical experts for planning and implementing, construction companies, institutional team, children, parents, clients etc.

What sort of extra information is needed to improve the effectiveness of the action?

Energy management, payback calculation, regular feedback to the building users

Name the concrete proposed/ongoing projects along this Action

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Action 2

Name of the action: **Door and window replacement of 52 public buildings**

Progress of the action so far (0-5): 2

Data quality the action based on (0-2): 2

Importance of the action in reducing the city's CO2-emissions / adaptation to climate change (0-3): 1

Need for involvement of additional experts / stakeholders / citizen groups (0-3): 3



Name the specific expert / stakeholder / citizen groups required: technical experts for planning and implementing, construction companies, institutional team, children, parents, clients etc.

What sort of extra information is needed to improve the effectiveness of the action?

Energy management, payback calculation, regular feedback to the building users

Name the concrete proposed/ongoing projects along this Action

Replacement of door and windows of 5 buildings is implemented or in preparation phase

Action 3

Name of the action: **Modernisation of heating systems of 45 public buildings**

Progress of the action so far (0-5): 1

Data quality the action based on (0-2): 2

Importance of the action in reducing the city's CO₂-emissions / adaptation to climate change (0-3): 2

Need for involvement of additional experts / stakeholders / citizen groups (0-3): 3

Name the specific expert / stakeholder / citizen groups required: technical experts for planning and implementing, construction companies, institutional team, children, parents, clients etc.

What sort of extra information is needed to improve the effectiveness of the action? Energy management, payback calculation, regular feedback to the building users

Name the concrete proposed/ongoing projects along this Action

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Action 4

Name of the action: **Modernisation of indoor lightning system of 58 public buildings**

Progress of the action so far (0-5): 1

Data quality the action based on (0-2): 2

Importance of the action in reducing the city's CO₂-emissions / adaptation to climate change (0-3): 1

Need for involvement of additional experts / stakeholders / citizen groups (0-3): 3



Name the specific expert / stakeholder / citizen groups required: technical experts for planning and implementing, lightning companies, institutional team, children, parents, clients etc.

What sort of extra information is needed to improve the effectiveness of the action? Energy management, payback calculation, regular feedback to the building users

Name the concrete proposed/ongoing projects along this Action

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Action 5

Name of the action: **Replacement of old electronic equipment (300)**

Progress of the action so far (0-5): 2

Data quality the action based on (0-2): 2

Importance of the action in reducing the city's CO₂-emissions / adaptation to climate change (0-3): 1

Need for involvement of additional experts / stakeholders / citizen groups (0-3): 3

Name the specific expert / stakeholder / citizen groups required: technical experts for planning and implementing, institutional team, children, parents, clients etc.

What sort of extra information is needed to improve the effectiveness of the action? energy management, payback calculation, regular feedback to the building users

Name the concrete proposed/ongoing projects along this Action

New combined oven in Mályva Nursery

Action 6

Name of the action: **Establishment and Operation of an Energy Information Office (ZETI)**

Progress of the action so far (0-5): -1

Data quality the action based on (0-2): 2

Importance of the action in reducing the city's CO₂-emissions (0-3): 3 (by reason of support the residential/business investments)

Need for involvement of additional experts / stakeholders / citizen groups (0-3): 3

Name the specific expert / stakeholder / citizen groups required: energy advisory expert, energy experts, communication expert, representatives of multi-apartment buildings, local citizens, local companies, chiefs of local institutions



What sort of extra information is needed to improve the effectiveness of the action? Quality assessment of the office (success parameters, follow up clients, investments etc.)

Name the concrete proposed/ongoing projects along this Action

The office is out of service from Summer 2019.

Action 7

Name of the action: **Environmentally conscious consumption, operation (training for employees)**

Progress of the action so far (0-5): 1

Data quality the action based on (0-2): 0

Importance of the action in reducing the city's CO2-emissions (0-3): 2

Need for involvement of additional experts / stakeholders / citizen groups (0-3): 3

Name the specific expert / stakeholder / citizen groups required: training experts in different topics (energy, waste, water management), building users

What sort of extra information is needed to improve the effectiveness of the action? Quality assessment of trainings (participants, efficiency of awareness raising)

guidelines and code for green local festivals

guidelines and code for green building usage

Name the concrete proposed/ongoing projects along this Action

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Action 8

Name of the action: **Green procurement**

Progress of the action so far (0-5): 0

Data quality the action based on (0-2): 2

Importance of the action in reducing the city's CO2-emissions (0-3): 1 (by the reason of effects on investments)

Need for involvement of additional experts / stakeholders / citizen groups (0-3): 3

Name the specific expert / stakeholder / citizen groups required: Green procurement expert, communication expert

What sort of extra information is needed to improve the effectiveness of the action?

Green procurement trainings for the staff of the procurement office



Regular information is necessary to the municipality board, the in-house experts and the wider public about issue, as the process is quite innovative and has long-term effects.

Name the concrete proposed/ongoing projects along this Action

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Action 9

Name of the action: **Municipal energy management database**

Progress of the action so far (0-5): 1

Data quality the action based on (0-2): 2

Importance of the action in reducing the city's CO2-emissions (0-3): 3 (by the reason of effect investments, building usage)

Need for involvement of additional experts / stakeholders / citizen groups (0-3): 3

Name the specific expert / stakeholder / citizen groups required: data manager, data visualization expert, building users, stakeholder group

What sort of extra information is needed to improve the effectiveness of the action?

Experience exchange with other municipalities about proper management systems

Name the concrete proposed/ongoing projects along this Action

Action 10

Name of the action: **Technological efficiency development, electricity savings**

Progress of the action so far (0-5): 0

Data quality the action based on (0-2): 0

Importance of the action in reducing the city's CO2-emissions (0-3): 2

Need for involvement of additional experts / stakeholders / citizen groups (0-3): 3

Name the specific expert / stakeholder / citizen groups required: local enterprises, technology innovation companies

What sort of extra information is needed to improve the effectiveness of the action?

Saving potential in technology innovation, financial resources for technology investments, progress of development in the tertiary sector

Name the concrete proposed/ongoing projects along this Action

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Action 11

Name of the action: **Technological efficiency development, natural gas savings**

Progress of the action so far (0-5): 0

Data quality the action based on (0-2): 0

Importance of the action in reducing the city's CO2-emissions (0-3): 3

Need for involvement of additional experts / stakeholders / citizen groups (0-3): 3

Name the specific expert / stakeholder / citizen groups required: local enterprises, technology innovation companies

What sort of extra information is needed to improve the effectiveness of the action?

Saving potential in technology innovation, financial resources for technology investments, progress of development in the tertiary sector

Name the concrete proposed/ongoing projects along this Action

Action 12

Name of the action: **Heat pump systems in tertiary sector buildings**

Progress of the action so far (0-5): 0

Data quality the action based on (0-2): 0

Importance of the action in reducing the city's CO2-emissions (0-3): 3

Need for involvement of additional experts / stakeholders / citizen groups (0-3): 3

Name the specific expert / stakeholder / citizen groups required: local enterprises, technology innovation companies

What sort of extra information is needed to improve the effectiveness of the action?

Detailed saving potential of technology change in the district, feasibility studies, financial resources for investments, progress of development in the tertiary sector

Name the concrete proposed/ongoing projects along this Action

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Action 13

Name of the action: **Solar collectors in residential buildings**

Progress of the action so far (0-5): 0

Data quality the action based on (0-2): 0



Importance of the action in reducing the city's CO₂-emissions (0-3): 2

Need for involvement of additional experts / stakeholders / citizen groups (0-3): 3

Name the specific expert / stakeholder / citizen groups required: homeowners, representatives of housing communities/condominiums, investors, financing institutes

What sort of extra information is needed to improve the effectiveness of the action?

Financial sources, saving potentials of individual investments, feasibility studies, progress of the investments in residential sector

Name the concrete proposed/ongoing projects along this Action

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Action 14

Name of the action: **Heat pumps in residential buildings**

Progress of the action so far (0-5): 0

Data quality the action based on (0-2): 0

Importance of the action in reducing the city's CO₂-emissions (0-3): 2

Need for involvement of additional experts / stakeholders / citizen groups (0-3): 3

Name the specific expert / stakeholder / citizen groups required: homeowners, representatives of housing communities/condominiums, investors, financing institutes

What sort of extra information is needed to improve the effectiveness of the action?

Financial sources, saving potentials of individual investments, feasibility studies, progress of the investments in residential sector

Name the concrete proposed/ongoing projects along this Action

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Action 15

Name of the action: **Complex building reconstructions of residential buildings**

Progress of the action so far (0-5): 0

Data quality the action based on (0-2): 0

Importance of the action in reducing the city's CO₂-emissions (0-3): 3

Need for involvement of additional experts / stakeholders / citizen groups (0-3):



Name the specific expert / stakeholder / citizen groups required: homeowners, representatives of housing communities/condominiums, investors, financing institutes

What sort of extra information is needed to improve the effectiveness of the action?

Financial sources, saving potentials of individual investments, feasibility studies, progress of the investments in residential sector

Name the concrete proposed/ongoing projects along this Action

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Action 16

Name of the action: **Replacing large household equipments (mainly refrigerators)**

Progress of the action so far (0-5): 0

Data quality the action based on (0-2): 0

Importance of the action in reducing the city's CO₂-emissions (0-3): 2

Need for involvement of additional experts / stakeholders / citizen groups (0-3): 3

Name the specific expert / stakeholder / citizen groups required: home owners, traders

What sort of extra information is needed to improve the effectiveness of the action?

Saving potentials by households, pay-back periods, financing sources, measuring progress in the action

Name the concrete proposed/ongoing projects along this Action

'Otthon melege' household equipment change program

Action 17

Name of the action: **Eco circles (energy and resource saving communities)**

Progress of the action so far (0-5): 1

Data quality the action based on (0-2): 0

Importance of the action in reducing the city's CO₂-emissions (0-3): 3 (by the reason of expended effects on investments)

Need for involvement of additional experts / stakeholders / citizen groups (0-3): 3

Name the specific expert / stakeholder / citizen groups required: local citizens, NGOs with specific knowledge, communication expert



What sort of extra information is needed to improve the effectiveness of the action?

Training and community building

Name the concrete proposed/ongoing projects along this Action

E-On Climate community project set up in Zugló

Action 18

Name of the action: **Modernisation of public lighting system**

Progress of the action so far (0-5): 1

Data quality the action based on (0-2): 2

Importance of the action in reducing the city's CO₂-emissions (0-3): 1

Need for involvement of additional experts / stakeholders / citizen groups (0-3): 1

Name the specific expert / stakeholder / citizen groups required: lighting companies, local citizens

What sort of extra information is needed to improve the effectiveness of the action?

Technical assessment and inquiry of citizens needs of development in lighting system

Name the concrete proposed/ongoing projects along this Action

Off grid solar lamps already installed in the district

Action 19

Name of the action: **Technological efficiency development, electricity savings**

Progress of the action so far (0-5): 0

Data quality the action based on (0-2): 0

Importance of the action in reducing the city's CO₂-emissions (0-3): 1

Need for involvement of additional experts / stakeholders / citizen groups (0-3): 1

Name the specific expert / stakeholder / citizen groups required:

What sort of extra information is needed to improve the effectiveness of the action?

Estimation of the progress in action.

Name the concrete proposed/ongoing projects along this Action

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Action 20

Name of the action: **Technological efficiency development, natural gas savings**

Progress of the action so far (0-5): 0

Data quality the action based on (0-2): 0

Importance of the action in reducing the city's CO₂-emissions (0-3): 1

Need for involvement of additional experts / stakeholders / citizen groups (0-3): 1

Name the specific expert / stakeholder / citizen groups required:

What sort of extra information is needed to improve the effectiveness of the action?

Estimation of the progress in action

Name the concrete proposed/ongoing projects along this Action

Action 21

Name of the action: **Heat pumps in industrial buildings**

Progress of the action so far (0-5): 0

Data quality the action based on (0-2): 0

Importance of the action in reducing the city's CO₂-emissions (0-3): 1

Need for involvement of additional experts / stakeholders / citizen groups (0-3): 1

Name the specific expert / stakeholder / citizen groups required: Building managers of industrial buildings, implement companies

What sort of extra information is needed to improve the effectiveness of the action?

Available technologies, feasibility studies, estimation of the progress

Name the concrete proposed/ongoing projects along this Action

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Action 22

Name of the action: **Increasing energy efficiency in road vehicles and alternative fuels; modal shifting to public transport**

Progress of the action so far (0-5): 1

Data quality the action based on (0-2): 0

Importance of the action in reducing the city's CO₂-emissions (0-3): 3



Need for involvement of additional experts / stakeholders / citizen groups (0-3): 3

Name the specific expert / stakeholder / citizen groups required:

Drivers, mobility experts, BKK, schools, kids, parents, stakeholder board of local citizens, NGOs

What sort of extra information is needed to improve the effectiveness of the action?

Road safety data, inclination of drivers to shift, investments by the capital city

Name the concrete proposed/ongoing projects along this Action

Action 23

Name of the action: **Development of biking infrastructure**

Progress of the action so far (0-5): 2

Data quality the action based on (0-2): 2

Importance of the action in reducing the city's CO₂-emissions (0-3): 3

Need for involvement of additional experts / stakeholders / citizen groups (0-3): 3

Name the specific expert / stakeholder / citizen groups required:

Bikers associations, drivers, schools, parents, road safety experts, mobility experts, local public institutes, road authority

What sort of extra information is needed to improve the effectiveness of the action?

Progress in raise of biking journey (km), shift from car to bike

Name the concrete proposed/ongoing projects along this Action

16 new bike storage already installed, new bike lanes and reconstructions under planning in the district (Róna street, Mogyoródi treet, bike lane on bank of Rákos creek)

Action 24

Name of the action: **Photovoltaics on 83 public buildings**

Progress of the action so far (0-5): 2

Data quality the action based on (0-2): 2

Importance of the action in reducing the city's CO₂-emissions (0-3): 2

Need for involvement of additional experts / stakeholders / citizen groups (0-3): 3

Name the specific expert / stakeholder / citizen groups required:



Installer companies, building users, parents focus groups

What sort of extra information is needed to improve the effectiveness of the action?

Progress in the action, monitoring of production data

Name the concrete proposed/ongoing projects along this Action

Mályva Nursery: 146 PV panels installed

Action 25

Name of the action: **Residential photovoltaic power investments**

Progress of the action so far (0-5): 2

Data quality the action based on (0-2): 0

Importance of the action in reducing the city's CO₂-emissions (0-3): 3

Need for involvement of additional experts / stakeholders / citizen groups (0-3): 3

Name the specific expert / stakeholder / citizen groups required: home owners, representatives of housing communities, PV companies, project management companies

What sort of extra information is needed to improve the effectiveness of the action?

Available technologies, production potentials, payback calculations, financial sources of investments, measure of progress in action

Name the concrete proposed/ongoing projects along this Action:

MFB (Hungarian Development Bank) residential 0% interest loan

Action 26

Name of the action: **Residential wind power investments**

Progress of the action so far (0-5): 1

Data quality the action based on (0-2): 2

Importance of the action in reducing the city's CO₂-emissions (0-3): 2

Need for involvement of additional experts / stakeholders / citizen groups (0-3):

Name the specific expert / stakeholder / citizen groups required:

What sort of extra information is needed to improve the effectiveness of the action?

Changes in legal environment of wind power investments



Available technologies, production potentials, payback calculations, financial sources of investments, measure of progress in action

Name the concrete proposed/ongoing projects along this Action:

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Name of the action: **Power investments in industry and service sector**

Progress of the action so far (0-5): 1

Data quality the action based on (0-2): 0

Importance of the action in reducing the city's CO₂-emissions (0-3): 2

Need for involvement of additional experts / stakeholders / citizen groups (0-3): 3

Name the specific expert / stakeholder / citizen groups required:

Companies of the sectors

What sort of extra information is needed to improve the effectiveness of the action?

Available technologies, production potentials, payback calculations, financial sources of investments, measure of progress in action

Name the concrete proposed/ongoing projects along this Action:

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Action 28

Name of the action: **Connecting district heating systems, increasing the share of the geothermal and biomass**

Progress of the action so far (0-5): 0

Data quality the action based on (0-2): 0

Importance of the action in reducing the city's CO₂-emissions (0-3): 3

Need for involvement of additional experts / stakeholders / citizen groups (0-3):

Name the specific expert / stakeholder / citizen groups required:

FŐTÁV, building owners, technical planning companies

What sort of extra information is needed to improve the effectiveness of the action?

Data on the progress from FŐTÁV

Name the concrete proposed/ongoing projects along this Action

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Action 29



Name of the action: **Other investments finished by 2017 (based on statistics of Central Hungarian Statistical Office)**

Progress of the action so far (0-5): 5

Data quality the action based on (0-2): 2

Importance of the action in reducing the city's CO2-emissions (0-3): 2

Need for involvement of additional experts / stakeholders / citizen groups (0-3): 0

Name the specific expert / stakeholder / citizen groups required: -

What sort of extra information is needed to improve the effectiveness of the action?

Data on the progress

Name the concrete proposed/ongoing projects along this Action

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Action 30

Name of the action: **Green walls and green roofs**

Progress of the action so far (0-5): 1

Data quality the action based on (0-2): 0

Importance of the action in reducing the city's CO2-emissions (0-3): 2

Need for involvement of additional experts / stakeholders / citizen groups (0-3): 3

Name the specific expert / stakeholder / citizen groups required: citizens focus group, local citizens in the maintenance, home owners, housing communities, local institutes, parents

What sort of extra information is needed to improve the effectiveness of the action?

Database on the potential places of green walls and roof, costs, volunteer capacity for maintenance, regularly updated info on the condition of the objects

Name the concrete proposed/ongoing projects along this Action

Indoor green walls installed in the municipality building

Action 31

Name of the action: **Climate forest**

Progress of the action so far (0-5): 5

Data quality the action based on (0-2): 2



Importance of the action in reducing the city's CO2-emissions (0-3): 1

Need for involvement of additional experts / stakeholders / citizen groups (0-3): 3

Name the specific expert / stakeholder / citizen groups required:

Local volunteers

What sort of extra information is needed to improve the effectiveness of the action?

Regular update of the conditions, replacement of plants, new potential climate forest territories

Name the concrete proposed/ongoing projects along this Action

First climate forest planted in Németspróna street



ADAPTATION ACTIONS OF THE SECAP

Action 1

Name of the action: **Climate-adaptive revitalization of Rákos stream**

Progress of the action so far (0-5): 0

Data quality the action based on (0-2): 2

Importance of the action in reducing the city's CO₂-emissions / adaptation to climate change (0-3): 3

Need for involvement of additional experts / stakeholders / citizen groups (0-3):

Name the specific expert / stakeholder / citizen groups required:

Bikers, focus groups of local citizens

What sort of extra information is needed to improve the effectiveness of the action?

Regular update of the progress

Name the concrete proposed/ongoing projects along this Action

Action 2

Name of the action: **Creating and implementing a heat and UV plan**

Progress of the action so far (0-5): 0

Data quality the action based on (0-2): 2

Importance of the action in reducing the city's CO₂-emissions (0-3): 3

Need for involvement of additional experts / stakeholders / citizen groups (0-3): 3

Name the specific expert / stakeholder / citizen groups required: local focus groups, institutions, local businesses, health service centres, ZEFI

What sort of extra information is needed to improve the effectiveness of the action?

Action plan, mobile application for vulnerable groups, map of climatized places

Name the concrete proposed/ongoing projects along this Action

Action 3



Name of the action: **Adaptation through ZEFI (Health improvement office of Zugló)**

Progress of the action so far (0-5): 0

Data quality the action based on (0-2): 2

Importance of the action in reducing the city's CO₂-emissions (0-3): 3

Need for involvement of additional experts / stakeholders / citizen groups (0-3): 3

Name the specific expert / stakeholder / citizen groups required: local focus groups, institutions, local businesses, health service centres, ZEFI

What sort of extra information is needed to improve the effectiveness of the action?

Name the concrete proposed/ongoing projects along this Action

Action 4

Name of the action: **Further development of urban green surfaces**

Progress of the action so far (0-5): 3

Data quality the action based on (0-2): 0

Importance of the action in reducing the city's CO₂-emissions (0-3): 3

Need for involvement of additional experts / stakeholders / citizen groups (0-3): 3

Name the specific expert / stakeholder / citizen groups required:

volunteers in planting and maintenance, gardening expertise, Virágzó Zugló

What sort of extra information is needed to improve the effectiveness of the action?

Database on potential areas for planting, regular update of the conditions (replacement needs)

Name the concrete proposed/ongoing projects along this Action

Virágzó Zugló: development of green areas, microgardens in Zugló with involvement of local citizens

Action 5

Name of the action: **Creation of new community gardens**

Progress of the action so far (0-5): 2

Data quality the action based on (0-2): 2

Importance of the action in reducing the city's CO₂-emissions (0-3): 3



Need for involvement of additional experts / stakeholders / citizen groups (0-3): 3

Name the specific expert / stakeholder / citizen groups required:

volunteers in planting and maintenance, gardening expertise, Zugkert association, Virágzó Zugló

What sort of extra information is needed to improve the effectiveness of the action?

Database on potential areas for gardens, regular update of the conditions (replacement needs)

Name the concrete proposed/ongoing projects along this Action

Two community gardens are existing in Zugló

Action 6

Name of the action: **Tree and park register**

Progress of the action so far (0-5): 0

Data quality the action based on (0-2): 0

Importance of the action in reducing the city's CO2-emissions (0-3): 3

Need for involvement of additional experts / stakeholders / citizen groups (0-3): 3

Name the specific expert / stakeholder / citizen groups required:

volunteers group involved in the field survey, botanical expertise

What sort of extra information is needed to improve the effectiveness of the action?

Name the concrete proposed/ongoing projects along this Action

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Action 7

Name of the action: **Insulation of public buildings**

Progress of the action so far (0-5): 1

Data quality the action based on (0-2): 0

Importance of the action in reducing the city's CO2-emissions (0-3): 3

Need for involvement of additional experts / stakeholders / citizen groups (0-3): 1

Name the specific expert / stakeholder / citizen groups required:

Public building manager, focus group of building users, ZEFI

What sort of extra information is needed to improve the effectiveness of the action?



Set up a plan by the importance of the buildings to be insulated (care centres, nurseries, buildings with high number of clients...)

Name the concrete proposed/ongoing projects along this Action

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Action 8

Name of the action: **Vulnerability assessment of the residential building stock**

Progress of the action so far (0-5): 0

Data quality the action based on (0-2): 0

Importance of the action in reducing the city's CO₂-emissions (0-3): 3

Need for involvement of additional experts / stakeholders / citizen groups (0-3):

Name the specific expert / stakeholder / citizen groups required:

home owners, housing communities, building experts, volunteers to be involved in the field survey

What sort of extra information is needed to improve the effectiveness of the action?

building stock database

Name the concrete proposed/ongoing projects along this Action

Action 9

Name of the action: **Climate-focused final plans for new developments**

Progress of the action so far (0-5): 2

Data quality the action based on (0-2): 0

Importance of the action in reducing the city's CO₂-emissions (0-3): 3

Need for involvement of additional experts / stakeholders / citizen groups (0-3):

Building investors, citizens focus groups, NGOs

Name the specific expert / stakeholder / citizen groups required:

What sort of extra information is needed to improve the effectiveness of the action?

List of yearly developments in different sectors

Name the concrete proposed/ongoing projects along this Action



Action 10

Name of the action: **Implementing adaptation related measures already identified in other local programs**

Progress of the action so far (0-5): 1

Data quality the action based on (0-2): 0

Importance of the action in reducing the city's CO2-emissions (0-3): 3

Need for involvement of additional experts / stakeholders / citizen groups (0-3): 3

Name the specific expert / stakeholder / citizen groups required:

NGOs, citizens focus groups, local businesses

What sort of extra information is needed to improve the effectiveness of the action?

Name the concrete proposed/ongoing projects along this Action

Action 11

Name of the action: **Shadowing**

Progress of the action so far (0-5): 2

Data quality the action based on (0-2): 0

Importance of the action in reducing the city's CO2-emissions (0-3): 3

Need for involvement of additional experts / stakeholders / citizen groups (0-3): 3

Name the specific expert / stakeholder / citizen groups required:

home owners, housing communities, institutions

What sort of extra information is needed to improve the effectiveness of the action?

Database of vulnerable buildings

Name the concrete proposed/ongoing projects along this Action

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Action 12

Name of the action: **Development of rainwater management**

Progress of the action so far (0-5): 2



Data quality the action based on (0-2): 2

Importance of the action in reducing the city's CO₂-emissions (0-3): 3

Need for involvement of additional experts / stakeholders / citizen groups (0-3): 3

Name the specific expert / stakeholder / citizen groups required:

Institutions, businesses, home owners, housing communities,

What sort of extra information is needed to improve the effectiveness of the action?

database of green surfaces, covered surfaces, database on rainwater collection systems, good practices of rainwater harvest, awareness raising

Name the concrete proposed/ongoing projects along this Action

CWC project: knowledge transfer, awareness raising, policy development and pilot action

Action 13

Name of the action: **Awareness raising programs**

Progress of the action so far (0-5): 2

Data quality the action based on (0-2): 2

Importance of the action in reducing the city's CO₂-emissions (0-3): 3

Need for involvement of additional experts / stakeholders / citizen groups (0-3): 3

Name the specific expert / stakeholder / citizen groups required:

focus groups, NGOs, cultural and education institutions, local media

What sort of extra information is needed to improve the effectiveness of the action?

Name the concrete proposed/ongoing projects along this Action

Action 14

Name of the action: **Local regulations**

Progress of the action so far (0-5): 2

Data quality the action based on (0-2): 2

Importance of the action in reducing the city's CO₂-emissions (0-3): 3

Need for involvement of additional experts / stakeholders / citizen groups (0-3): 3

Name the specific expert / stakeholder / citizen groups required:



focus groups, NGOs, institutions, local businesses

What sort of extra information is needed to improve the effectiveness of the action?

Name the concrete proposed/ongoing projects along this Action

Action 15

Name of the action: **Training**

Progress of the action so far (0-5): 0

Data quality the action based on (0-2): 0

Importance of the action in reducing the city's CO₂-emissions (0-3): 3

Need for involvement of additional experts / stakeholders / citizen groups (0-3):

Name the specific expert / stakeholder / citizen groups required:

Training expert, communication expert, institutions, businesses, NGOs

What sort of extra information is needed to improve the effectiveness of the action?

needs assessment, attitude survey of participants, quality control

Name the concrete proposed/ongoing projects along this Action

Action 16

Name of the action: **Mainstreaming**

Progress of the action so far (0-5): 0

Data quality the action based on (0-2): 0

Importance of the action in reducing the city's CO₂-emissions (0-3): 3

Need for involvement of additional experts / stakeholders / citizen groups (0-3):

Name the specific expert / stakeholder / citizen groups required:

Training expert, communication expert, institutions, businesses, NGOs

What sort of extra information is needed to improve the effectiveness of the action?

needs assessment, attitude survey of local citizens

Name the concrete proposed/ongoing projects along this Action

Action 17



Name of the action: **Review of organizational and decision structures**

Progress of the action so far (0-5): 0

Data quality the action based on (0-2): 0

Importance of the action in reducing the city's CO2-emissions (0-3): 3 (by the reason of effect on other actions)

Need for involvement of additional experts / stakeholders / citizen groups (0-3): 1

Name the specific expert / stakeholder / citizen groups required:

What sort of extra information is needed to improve the effectiveness of the action?

Name the concrete proposed/ongoing projects along this Action