

Report on the final learning targets and training structure

Overview/Introduction.....	1
Final learning targets.....	2
Course structure staff	3
Course structure decision makers	4
Summary of the consultation process.....	5
Analysis of the knowledge base	6

Overview/Introduction

Learning targets have been refined and training module structure has been discussed with all partners on the basis of working papers by FHE and talheimer. Refining has taken place via the internal communication platform and on the second project meeting. For the purpose of preparing and refining the learning targets and course structure the partners have been consulting the municipalities in meetings and via Email. Relevant networks and experts have been consulted (the advisory board, national municipal organisations).

The training structure for staff contains five modules, split into 12 units for four online sessions between five on-site seminars. Considering the reduced volume of the course for decision makers and taking into account the different role and background this target group has a different training structure containing 12 learning steps has been refined for the target group of decision makers. But all the same all planned topics are included and there will be four online sessions and five on-site seminars as well.

This report contains the learning targets of the training offer, the course structures and a summary of the consultations process and the analyses of the knowledge base.

Supported by:



Disclaimer: The sole responsibility for the content of this publication lies with the authors. It does not necessarily reflect the opinion of the European Union. The European Commission is not responsible for any use that may be made of the information contained therein.

Final learning targets

The learning targets for the target group of municipal staff are:

- to understand the local impacts of climate change, the importance of sustainable energy usage, renewable energies and significant reduction of CO2 emissions on the local level and to understand that municipal action makes a difference
- to acquire skills and practical know-how for developing and implementing measures to reduce CO2 emissions beyond 20% till 2020 and to implement SEAPs
- to improve own competencies in areas involving CO2 emissions and develop first ideas/concepts for solution in own municipality
- to be aware of the complexity of interrelations of municipal measures and to better network with other employees throughout municipal government

The learning targets for the target group of decision makers are:

- to understand and be able to explain the local impacts of climate change, the importance of sustainable energy usage, renewable energies and significant reduction of CO2 emissions on the local level and to understand that municipal action makes a difference
- to be aware the complexity of interrelations of municipal measures, thus enabling course participants to assess policy proposals and the consequences of making decisions or avoiding them;
- to acquire skills and practical know-how for initiating, developing and communicating a sustainable energy action plan and deciding on energy projects and measures to reduce CO2 emissions beyond 20% till 2020

Course structure staff

Module 1 climate change

Unit 1: anthropogenic climate change and its effects

Unit 2: mitigation and adaptation strategies, role of Energy consumption

Unit 3: overview of options for action in municipalities and assessment criteria

Module 2 municipalities as energy producer and supplier

Unit 4: GHG reduction by renewable energy production in municipalities
(relevance/framework, examples, possible measures)

Module 3: municipalities as consumer and service provider

Unit 5: GHG reduction in building sector
(relevance/framework, examples, possible measures)

Unit 6: GHG reduction in procurement/tendering and eGovernment
(relevance/framework, examples, possible measures)

Module 4: municipalities as planner, developer, regulator and motivator

Unit 7 GHG reduction in urban planning
(relevance/framework, examples, possible measures)

Unit 8: GHG reduction in transportation sector
(relevance/framework, examples, possible measures)

Unit 9: GHG reduction in other municipalities of action
(relevance/framework, examples, possible measures)

Module 5: Development of Sustainable Energy Action Plans

Unit 10: Process of Developing Sustainable Energy Action Plans

Unit 11: Elaborating Content of Sustainable Energy Action Plans

Unit 12: Management of Sustainable Energy Action Plans

Course structure decision makers

1. Why should municipal officials be concerned with municipal energy consumption, green energy and reducing CO₂ emissions?
2. What do scientists and researchers say about climate change and the necessity of reducing CO₂ emissions?
3. What are Europe's policy targets for reducing CO₂ emissions? What are the general conditions and strategies at the national level?
4. What are the areas of action at the municipal level – both within and outside of municipal government?
5. Are there examples of good energy saving solutions in other cities and communities?
6. What are the advantages and opportunities for business and employment provided by renewable energies, energy efficiency and reducing CO₂ emissions?
7. How can modern-day IT infrastructure and virtual processes such as electronic government and e-energy help cities and municipal governments?
8. What targets and implementation strategies should municipal officials pursue for their cities and regions? What assessment criteria should be used?
9. How can community members, community initiatives, and associations be included?
10. How can one develop a sustainable municipal energy action plan? Who can help prepare the plan? What investments, cost-benefit calculations and economic issues need to be considered?
11. How can a sustainable municipal energy action plan best be implemented? Who should collaborate with whom?
12. Recommendations for action and checklists, both for those active in municipal policy-making and those outside municipal government; models for quality control and subsequent monitoring.

Summary of the consultation process

The feedback from consulting the target municipalities in the partner countries as well as the advisory board experts and representatives has been generally very positive. All the same there have been lots of useful comments, the consortium discussed. The feedback can be summed up in three categories: comments on the topics and structure, practical comments and country related comments. There has been little comments on the learning targets as such. Below the comments considered most relevant are summarized.

Comments on the topics and structure:

During consultation process it was recommended to refer directly to the topic of renewables and energy efficiency in the introductory part already and to include arguments against climate scepticism in the introductory part, as some partner countries there is still little knowledge about global warming. All the same most consulted actors recommended keeping the introductory part rather short to stress more on very practical aspects of municipal energy measures. From different sides it was recommended to include the topic of financing energy measures in the different chapters. The comments are partly included in the training structure. The other aspects will be considered in the actual learning texts of the preliminary version of the training content.

Practical comments:

There have been various comments from municipalities that do more focus on practical aspects in carrying out the trainings. Among these have been the confirmation that it is important to get people from different departments involved to make energy-networking in the municipality easier. It was mentioned by experts that we need to make the target municipalities aware, that sustainable energy management will only be successful if the necessary financial and staff resources are provided. From side of the municipalities it was stimulated to include more exchange between the participants of different municipalities. Another feedback was that time efforts estimated for the training so far seems too much for some of the target municipalities. The consortium will try to consider the practical comments when preparing the implementation of the training.

Country related comments:

There have been a variety of comments related to the specific situation in the partner countries, as situation and level of awareness is very different among them. There are e.g. countries like Romania where knowledge about global warming still is lacking in municipalities in needs to be stressed. On the other side there are countries like Austria where awareness is rather high and introduction can be kept rather short. Another country related problem is, that the training likes to stress the possibilities of renewable energy production in municipalities. But in very centralized countries this will be more difficult. The training offer in those countries will try to stress more on the heat sector that is organized more decentrally. The country related comments will be considered mainly in the process of national adaptation.

Analysis of the knowledge base

The preliminary version of the training content (English) will be based on the following knowledge base (marked with ● where direct reference is going to be made in the course material):

Relevant documents classified by training topics:

1. Climate Change

Fritzsche, Uwe R. 2007: Treibhausgasemissionen und Vermeidungskosten der nuklearen, fossilen und erneuerbaren Strombereitstellung

Germanwatch 2007: Auswirkungen des Klimawandels auf Deutschland

International Energy Agency 2009: Key World Energy Statistics

- IPCC 2007: Fourth Assessment Reports
- Stern, Nicholas 2007: Stern Review on the Economics of Climate Change

2. Local Energy Management

Communities and Local Government 2008: An e-Government Truth - Potential CO2 efficiencies from online provision of local government services

dena: 2009: GreenBuilding. Energieeffizienz in Nichtwohngebäuden

Droege, Peter 2006: The Renewable City: A comprehensive guide to an urban revolution

- EnergyCities: Common Framework Methodology for Municipal Energy Planning
www.energymodel.eu
- Intelligent Energy Europe / City Instruments 2008: Blueprint of Energy Master Plan for Metropolitan Areas
- Intelligent Energy Europe / City Instruments 2008: Guideline for the implementation of a City-specific Energy Master Plan (EMP) for Metropolitan Areas
- Intelligent Energy Europe / City Instruments 2008: Best Practice Catalogue
- Intelligent Energy Europe 2007: Energy advice in Europe 2007 A review of current practice in advice on sustainable energy in the countries of the European Union
- Johnsson, John 2010: Seven steps towards sustainable local energy systems (publishable report); (PATH-TO-RES project)
- Intelligent Energy Europe / RURENER 2010: Roadmap
(<http://rurener.eu/roadmap/>)
- <http://www.energy-advice.org/>
- <http://www.zukunft-haus.info/>

3. Urban Mobility and Public Transport

- Intelligent Energy Europe / ADD HOME 2010: ADD HOME – D2: Code of Practice / Know-how Transfer. Mobility Management for housing areas – From car-dependency to free choice

Intelligent Energy Europe 2007: City Instruments - Publishable Report

Intelligent Energy Europe / e-Atomium 2007: “How to get started - Local Authorities”: a Practical support for Local Authorities

- Intelligent Energy Europe / e-Atomium 2007: Mobility Management – Training manual

Intelligent Energy Europe / e-Atomium 2007: Awareness raising & Communication Campaigns – Training manual

Intelligent Energy Europe / e-Atomium 2007: Alternative fuels and vehicles – Training manual

Intelligent Energy Europe 2008: e-TREAM - Publishable Report

Intelligent Energy Europe / SpiCycles 2008: Bike sharing – Key findings and recommendations

<http://www.astute-eu.org>

<http://www.bypad.org>

http://www.eltis.org/case_study.phtml?mainID=458&id=458

http://www.transportlearning.net/download_center.phtml?id=336&sprache=de

4. Green Procurement

Ansel, Katrin; Bals, Christoph; Steenbock, Kristina 2010: Klimaverträgliche öffentliche Beschaffung – Deutschland auf dem Weg zur fast treibhausgasfreien Gesellschaft

- Clement, Simon 2007: Tackling climate change through public Procurement - Results of the DEEP Project

- European Commission: GPP training toolkit (http://ec.europa.eu/environment/gpp/toolkit_en.htm)

- ICLEI 2007: The Procura+ Manual. A Guide to Cost-Effective Sustainable Public Procurement, 2nd Edition

Procura+ / LEAP 2006: Tool A - Developing and implementing a green procurement policy

Purchasing and Procurement Policy for the City of Göteborg with Explanatory Notes (http://www.uhb.goteborg.se/admin/bildbank/uploads/Dokument/Misc/purchasing_procurement_policy.pdf)

SMART SPP / ICLEI 2009: Driving energy efficient innovation through procurement. A practical guide for public authorities

5. Land/urban planning

- Intelligent Energy Europe 2009: SNOWBALL: Energy-smart urban design Demonstration, Take-Up and Further Dissemination of Sustainable Integrated Planning Methods in European Cities

Intelligent Energy Europe / SNOWBALL 2009: Lessons Learnt
(http://steersnowball.info/images/stories/II_doc.pdf)

Intelligent Energy Europe / e-Atomium 2007: Demand Management – Training manual

Intelligent Energy Europe / SpiCycles 2008: Planning for Cycling - Key findings and recommendations

J.H. Crawford 2009: Carfree Design Manual

6. Intelligent Energy behaviour of citizens and businesses

- Energie-Cités 2008 The BELIEF story of Local energy Forums in Europe

Intelligent Energy Europe / SpiCycles 2008: Communication and Awareness raising - Key findings and recommendations

Klima-Bündnis 2003: Energie- und Umweltschutzprojekte an Schulen

Klima-Bündnis 2007: Energiesparen an Schulen mit finanziellem Anreiz

<http://www.climate-toolbox.net/datenbank.html>

7. Development of sustainable Energy Action Plans

Enova SF 2008: Municipal energy and climate planning – a guide to the process (3-nity)

- European Commission 2010: HOW TO DEVELOP A SUSTAINABLE ENERGY ACTION PLAN (SEAP) – GUIDEBOOK

Intelligent Energy Europe 2007: NEC NEw Concept of local sustainable development in pilot communities

MUSEC 2009: Multiplying Sustainable Energy Communities. A SEC Strategy Blueprint

Pauschinger, Thomas / MUSEC 2008: WP4. Developing SEC Strategy

- Wise-Plans 2007: D13. General guidelines on developing and adopting Sustainable Energy Action Plans (SEAPs)