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Preparatory study for Steam Boilers Ecodesign



Stakeholder Meeting
Brussels, 6th March 2014

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Fraunhofer
ISI

Today's Agenda

9:45 – 10:00	Arrival of participants
10:00 – 10:15	Welcome and round of introductions Davide Polverini, European Commission
10:15 – 10:30	Background and objective of the study Davide Polverini, European Commission
10:30 – 10:50	Methodology of the study and objectives of the meeting Clemens Rohde, Fraunhofer ISI
10:50 – 11:15	Presentation of preliminary results of Task 1: Scope Clemens Rohde, Fraunhofer ISI
11:15 – 11:45	Presentation of preliminary results of Task 2: Markets Paolo Gentili, PwC
11:45 – 12:45	Discussions on Task 1 and 2

Today's Agenda

12:45 – 13:45	Lunch break
13:45 – 14:05	Presentation of preliminary results of Task 3: Users Ali Aydemir, Fraunhofer ISI
14:05 – 14:30	Presentation of preliminary results of Task 4: Technologies Sotirios Karellas, NTUA-ICCS
14:30 – 15:30	Discussions on Task 3 and 4
15:30 – 16:00	Further proceeding and schedule, other issues Clemens Rohde, Fraunhofer ISI
16:00	Closing Davide Polverini, European Commission

Introduction

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Introduction

Consortium

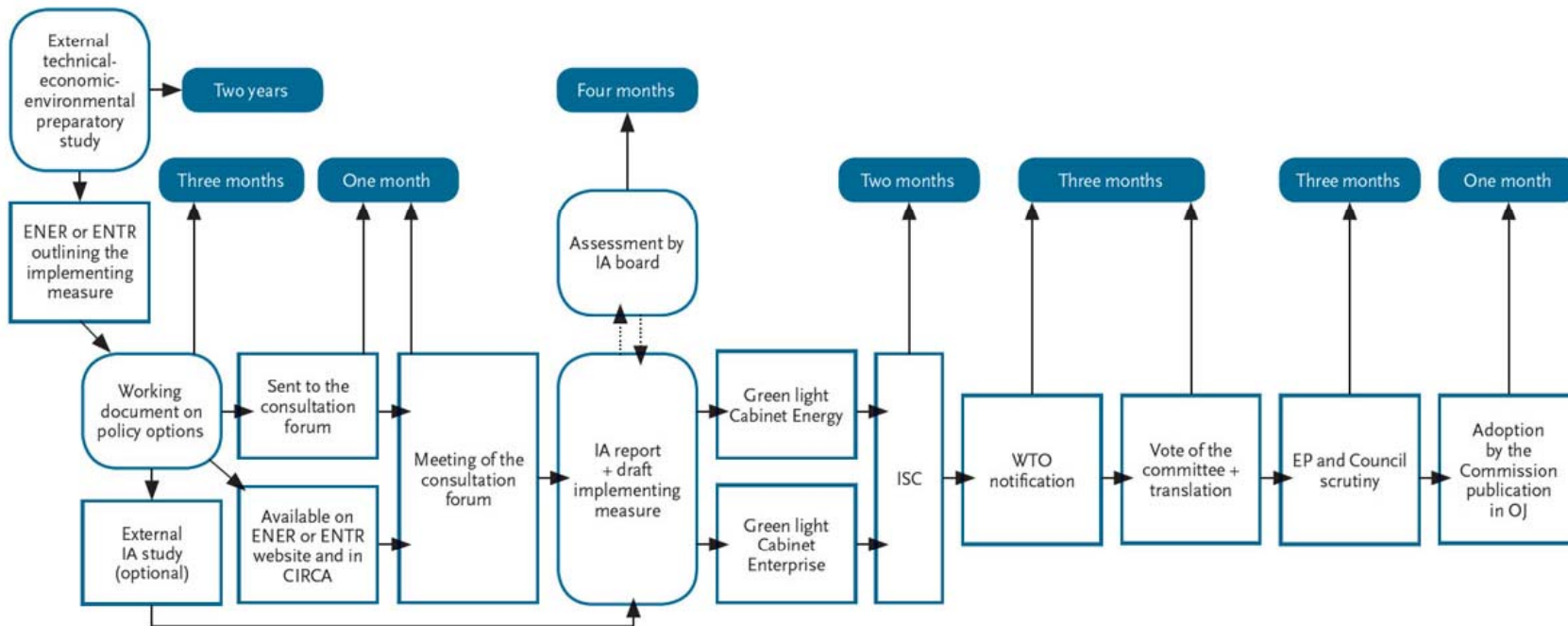
	Team members	Responsibilities
	Francesco Gargani (Engagement leader) Paolo Gentili Chiara Landini Silvia D'Ovidio	Environmental and Economic Experts
	Clemens Rohde (Project manager) Simon Hirzel Ali Aydemir Berit Ostrander	Technical and Economic Experts
	Panagiotis Leventis Sotirios Karellas	Technical Experts

Our approach

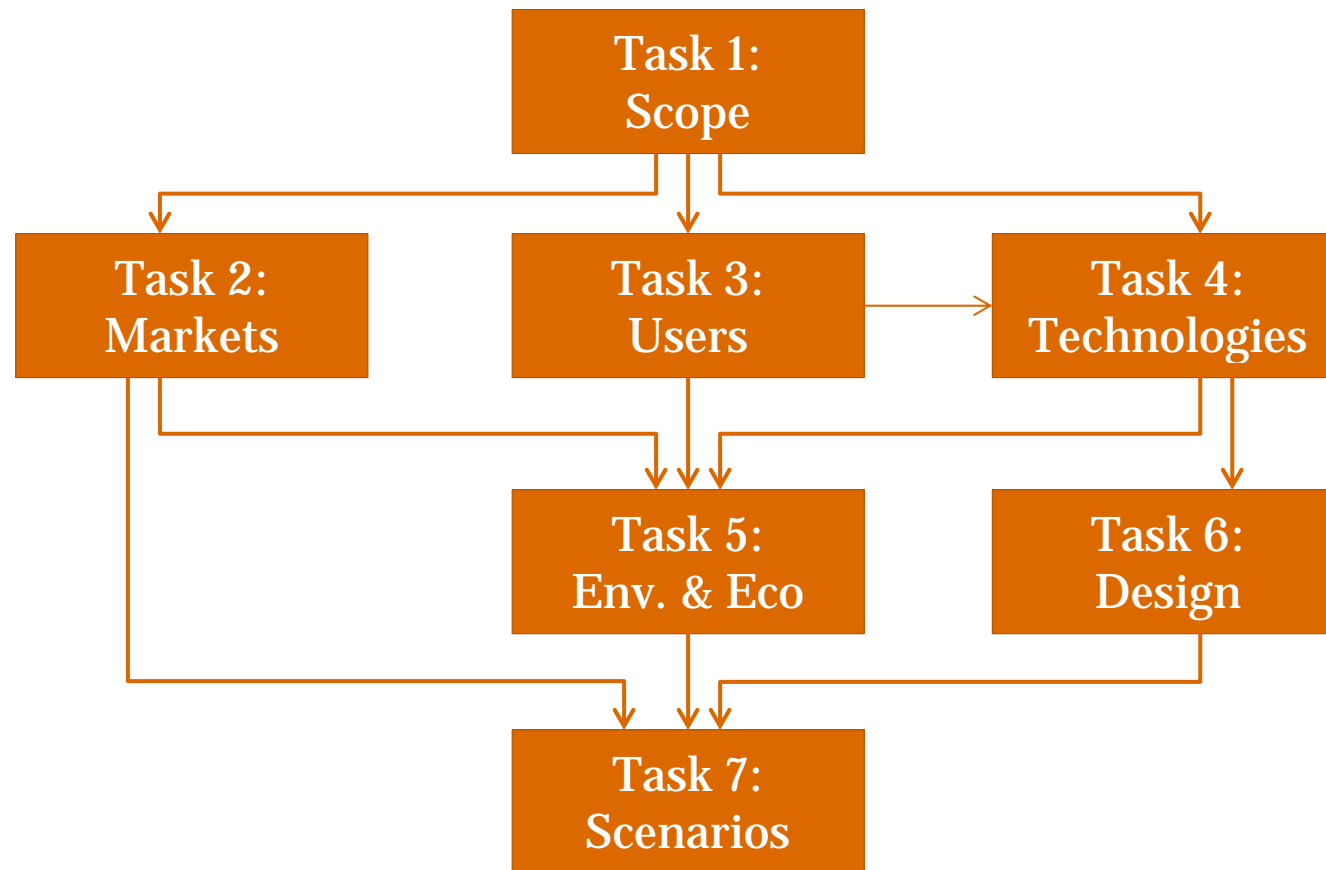
Objectives and Methodology

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The Ecodesign Process



The Preparatory Study Tasks' structure



Task 1: Scope

Objective

Determination of a clear definition of steam boilers.

Methodology

- Interaction with the relevant stakeholders (manufacturer's associations, standardization bodies, etc.);
- Use of secondary data to support the definition process.

Subtasks

Subtask 1.1: Product Scope

Subtask 1.2: Measurement/Test Standards

Subtask 1.3: Existing Legislation

Output

Scope definition of steam boilers for the preparatory study.

Task 2: Markets

Objectives

- to place product group within the total of EU industry and trade and provide input for the subsequent tasks ;
- to provide market and cost inputs for environmental impact of the product group;
- to provide insights in the latest market trends so as to indicate the market structures and ongoing trends;

Input

Product scope and features coming from Task 1.

Methodology

- Desk research and data collection
- Market assessment
- Market trends
- Interaction with the relevant stakeholders

Activities

Subtask 2.1: Generic economic data

Subtask 2.2: Market and stock data

Subtask 2.3: Market trends

Subtask 2.4: Consumer expenditure base data

Subtask 2.5: Recommendations

Outputs

- Product placed within total EU Industry and trade policy (official figures)
- Input unit sales values for Task 5-7/ (LCA, EU-wide impacts, stock model)
- Insight in trends (possible Ecodesign measures with or opposed to trends?)
- Input prices/cost values for Task 5-6 (prices, rates e.g. for LCC base case and design options)

Task 3: Users

Objectives

Determination of steam boiler use cases

Input

Product scope and features coming from Task 1.

Methodology

- Technological analysis of systemic integration of steam boilers;
- Literature Analysis of potential impacts of user behavior.

Subtasks

Subtask 3.1: System aspects of the use phase for ErPs with direct impact

Subtask 3.2: System aspects of the use phase for ErPs with indirect impact

Subtask 3.3: End of Life Behavior

Subtask 3.4: Local infrastructure (barriers and opportunities)

Subtask 3.5: Recommendations

Outputs

Task 4: Technologies

Objectives

- Description of the Technological Parameters of Steam Boilers
- Definition of the Base-Case for the further assessment

Input

- Product scope and features coming from Task 1.
- Market data coming from Task 2

Methodology

Analysis of technological options

Subtasks

Subtask 4.1: Technical Product Description

Subtask 4.2: Production, Distribution and end-of-life

Subtask 4.3: Recommendations

Output

Base case definition

Task 5: Environment and Economics

Objectives

- Calculation of environmental and economic impact of the base case product
- Determination of reference cases for improvement options

Input

- Unit sales values (LCA, EU-wide impacts, stock model) (from Task 2)
- Prices/cost values for (prices, rates e.g. for LCC base case and design options) (from Task 2)

Methodology

- Synthesis of collected data
- Impact assessment and LCC calculation according the proven methodology

Activities

Subtask 5.1: Product specific inputs

Subtask 5.2: Base Case Environmental Impact Assessment

Subtask 5.3: Base Case Life Cycle Cost for consumer

Subtask 5.4: Base Case Life Cycle Cost for society

Subtask 5.5: EU totals

Output

Defined Reference Cases for subsequent tasks

Task 6: Design Options

Objectives

Identification and evaluation of design options for the improvement of the performance of steam boilers

Input

- Unit sales values (LCA, EU-wide impacts, stock model) (from Task 2)
- Prices/cost values for (prices, rates e.g. for LCC base case and design options) (from Task 2)

Methodology

- Technological analysis of potential design options
- Economic analysis of the selected design options

Subtasks

Subtask 6.1: Identification of design options and assessment of their impacts

Subtask 6.2: Analysis of Costs

Subtask 6.3: Analysis of BAT and LLCC

Subtask 6.4: Long Term Potential (BNAT) & System Analysis

Outputs

Task 7: Scenarios

Objectives

Support the understanding of the potential impacts of regulation

Methodology

Impact analysis of the different policy options

Subtasks

Subtask 7.1: Policy Analysis

Subtask 7.2: Scenario analysis (unit stock/sale & environmental)

Subtask 7.3: Socio economic impact analysis

Subtask 7.4: Sensitivity analysis

Subtask 7.5: Summary

Objectives of the Stakeholder Meeting

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Main Objectives

We want...

- ...to inform you about the work on the preparatory study.
- ...to communicate our need for additional information.
- ...to get you feedback on the work carried out so far.

Thanks for your attention!



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