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CASES
Cost Assessment of Sustainable Energy Systems

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[Plan for using and disseminating knowledge]

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Dissemination level		
PU	Public	X
PP	Restricted to other programme participants (including the Commission Services)	
RE	Restricted to a group specified by the consortium (including the Commission Services)	
CO	Confidential, only for members of the consortium (including the Commission Services)	

PLAN FOR USING AND DISSEMINATING KNOWLEDGE

SUMMARY

1.	Introduction to dissemination plan.....	1
2.	Section 1 - Exploitable knowledge and its Use.....	1
2.1	Overview table	2
2.2	Knowledge management and intellectual property.....	3
2.3	Using knowledge.....	4
3.	Section 2 – Dissemination of knowledge.....	4
3.1	Overview table	4
3.2	Activities	5
3.3	Public of the project	8
3.4	Dissemination at national level – The Italian example	9

1. Introduction to dissemination plan

The present plan sets out in a detailed manner the terms of use and dissemination of the knowledge arising from the activities of the project, in accordance with the interests of the Consortium and in order to improve the strategic impact of the project.

This plan is addressed to all Member States, through the dissemination of the results to the policy community and to stakeholders, including energy producers and distributors, NGO's and academics and to the society at large.

Dissemination represents an integral part of each Work Package of the project. It is carried out at all level by partners individually both within and outside specific project activities, in co-ordination with the coordinator.

2. Section 1 - Exploitable knowledge and its use

This section presents exploitable results, defined as knowledge having a potential for industrial or commercial application in research activities or for developing, creating or marketing a product or process or for creating or providing a service.

The complete and consistent assessment of the full cost of energy sources, provided by CASES, is of paramount importance for energy and environmental policy making. The CASES' Consortium Agreement will provide a set of recommendations on the use of different policy instruments for the internalisation of the external costs of energy production. In this way it will contribute directly to policy formulation in this area. In addition to the formal recommendations, the project also has indirect benefits; for example, the assessment of the full cost estimates of energy production allows policy-makers to become more aware of the consequences that different fuels and technologies have on human health, the environment and society.

Moreover, CASES supports the cost-effective achievement of major EU Energy Policy goals for 2010 and contributes among the other long term objectives to the major goal of reducing EU imports of its energy needs towards the achievement of higher standards for security and diversity of the EU energy supply. This is integrated into the CASES project through consideration of energy supply security issues within an integrated assessment of future energy systems.

2.1 Overview table

The following table summarises the expected results of the project in terms of exploitable knowledge:

Exploitable Knowledge	Exploitable product or measure	Sector of application	Timetable	Leader & other partners involved
Scenarios of Energy Use	<ul style="list-style-type: none"> - Matrix of parameters influencing electricity demand. - Report on electricity scenarios by country and primary fuel for 2010-2020-2030. 	<ul style="list-style-type: none"> - Industry, - Research, - Politics. 	2007, 2008	OME, FEEM, ECON, COPPETEC, IIMA, ERI, EAP, TUBITAK.
Human health related external costs of different energy sources	<ul style="list-style-type: none"> - Emissions database. - Report on methodology for estimating external costs. - Updated version of ECOSENSE tool. 	<ul style="list-style-type: none"> - Research, - Politics. 	2007	USTUTT/IER, COPPETEC, IIMA, ERI, EAP, TUBITAK, ISIS, PSI.
Non-Human Health Related Environmental Costs of Different Energy Sources	<ul style="list-style-type: none"> - Database on studies concerning external cost estimates of land use changes, acidification, eutrophication and climate change. - Report on the monetary valuation of energy-related impacts on land use changes, acidification, eutrophication, visual intrusion and climate change. 	<ul style="list-style-type: none"> - Research, - Politics. 	2007	SWECO, UW, VU-IVM
Private Costs of Electricity and Heat Generation	<ul style="list-style-type: none"> - Report on private costs of electricity and heat generation. 	<ul style="list-style-type: none"> - Industry, - Research, - Politics. 	2007	USTUTT/IER, VITO, SWECO, CUEC, SEI, ISIS, PSI
Security and Reliability of Supply	<ul style="list-style-type: none"> - Report on National and EU level estimates of energy supply externalities. - Report on policy assessment of energy security measures incorporating externality measures. 	<ul style="list-style-type: none"> - Industry, - Research, - Politics. 	2007	UBATH, ECN, TUBITAK
National Level Estimates of Energy Costs in EU Countries	<ul style="list-style-type: none"> - Report on the development of a set of full cost estimates of the use of different energy sources and its comparative assessment. 	<ul style="list-style-type: none"> - Industry, - Research, - Politics. 	2007	FEEM, NTUA, USTUTT/IER, VITO, LEI, CIEMAT, CUEC, SEI, UWARS
National Level Estimates of Energy Costs in Non EU Countries	<ul style="list-style-type: none"> - Methodological framework on scenario- and model based private and social cost data, - National reports on private and social costs of fuels cycles in the non-EU countries. - Report on the comparative assessment of fuel cycle costs and methodological challenges across the participating countries. 	<ul style="list-style-type: none"> - Industry, - Research, - Politics. 	2007	RISOE, COPPETEC, IIMA, ERI, TUBITAK, EAP

Assessment of Policy Instruments to Internalise Environment-Related External Costs in EU Member States, Excluding Renewables	- Policy assessment reports.	- Industry, - Politics.	2008	VITO FEEM, NTUA, PSI
Assessment of Policy Instruments to Internalize Environment-Related External Costs in EU Member States, Via Promotion of Renewables				UFLANS, FEEM, RISOE, NTUA
Assessment of Policy Instruments to Internalize Environment-Related External Costs in non-EU Member States				UBATH, NTUA, SWECO, CUEC, SEI, ISIS, PSI
Methods of Assessment	- Guidelines for implementing CBA, CEA and MCDA in policy assessment. - MCDA tool-generic form. - Report on policy instruments' assessment methods and comparative analysis. - Report on assessment methods' analysis and implementation.	- Research.	2008	NTUA, UBATH, VITO, UFLANS
Treatment of Uncertainty in Estimates of External Costs at the National Level	- Report on uncertainties and their effects.	- Research.	2008	ECN, FEEM

2.2 Knowledge management and intellectual property

A considerable amount of “background knowledge” will be brought into the project by the consortium members, thanks to their extensive and active involvement in the relevant areas of investigation over the past decades. More importantly, the project collects abundant and varied information, in terms of methods, tools, and datasets. The general attitude of the Coordination Action Consortium is to widely share such knowledge, with as few limitations as possible in terms of access to the results. In fact, the wide-ranging dissemination activities carried out in this Consortium Agreement aim precisely at ensuring the maximum level of diffusion (publication, workshops, web sites, mailing lists).

Rules concerning knowledge management and intellectual property rights are designed on the basis of the principle of full compliance with the EC FP6 rules, which imply the following:

- Pre-Existing-Know-How (PEKH) brought into the project remains the property of the partner that has generated it;
- The partners provide access to all PEKH that they introduce to the Project. However, given the possibility of a partner to exclude any of its specific PEKH from access of the other partners, a list of excluded PEKH is annexed to the Consortium Agreement;
- Knowledge generated under the project is owned by the partner who carried out the work leading to that knowledge. In the most common case where several partners have jointly carried out the work and their respective share of work can not be ascertained, they shall have joint ownership of such knowledge, for which a co-ownership agreement will be set up.

2.3 Using knowledge

The general principle of CASES is to make the outputs of the Consortium Agreement freely accessible to the public, in particular to all Member States. Research reports and papers as well as databases are disseminated without delay using the instruments described below. However, the initiatives concerning databases have a real impact on the European research potential if and only if they are regularly updated/repeated. In these cases, the long-term financial viability of the initiatives shall be considered and an access fee should not be excluded. The objective of the access shall be limited to the recovery of costs.

3. Section 2 – Dissemination of knowledge

Within the project, dissemination activities take place primarily in three steps.

- 1) The first step concerns the results of the cost estimates. After cost estimates have been assessed in a consistent and comparable way for all countries considered, the energy community is invited to the first workshop, to participate in a dialogue with the project team in order to validate with key stakeholders the estimates.
- 2) Then a second consultation (second workshop) takes place to present and discuss the findings of the assessment of the full costs of energy for EU Countries and for non-EU Countries with the stakeholder community.
- 3) The third step is the Final Conference, presenting the outcome of the whole activity to the energy community. Results discussed here include both cost estimates, and the policy recommendations prompted by the comparison of the different policy instruments for the internalisation of the costs of energy production and for the promotion of renewables. This event is intended to address also the scientific/academic community.

Thus, the results presented at the end of the CASES project (eventually to be published in a book) represent the broad consensus of the opinion of scientists, economists and stakeholders on the private and external costs of energy including energy security issues. The involvement of leading European (and non-European) scientists and economists with a clear expertise in the field will be sought. Coupled with the broad consultation of stakeholders at all phases of the project, this will ensure widespread use of the methodology and estimates derived from this project in policy making at EU and nation-state level.

3.1 Overview table

The following table summarises the dissemination activities foreseen by the project:

Date	Type	Subject	Audience	Countries	Partner WP
June 2006	Project presentation	Objectives and context of the project; available on the web in .PPT and .PDF format.	All	All	FEEM WP13
June 2006	Project synopsis	Objectives and context of the project; available on the web in .PDF format.	All	All	FEEM WP13
August 2006	Project web site	Objectives, results, links.	All	All	FEEM WP13

April 2007	Newsletter	<ul style="list-style-type: none"> - Matrix of parameters influencing the evolution of the electricity demand. - Emissions database . - External cost estimates database - New estimates of energy supply externalities. - Methodological framework on scenario and model based private and social cost data. - Policy assessment guidelines. 	Stakeholders and interested public	25EU countries and other selected countries	FEEM WPs 1, 2, 3, 5, 7, 11
June 2007	Submission of papers to stakeholders	Submission of paper on cost assessment that will be presented to the workshop.	Stakeholders	25EU countries and other selected countries	USTUTT/IER
September 2007	Workshop	Cost assessment.	Stakeholders	Germany	USTUTT/IER WPs 2-7
September 2007	Seminar	Presentation of methods and user guidelines.	Stakeholders and interested public	Germany	ECN WP11
November 2007	Newsletter	<ul style="list-style-type: none"> - MCDA tool-generic form ECOSENSE tool. - Electricity scenarios by country and primary fuel for 2010-2020-2030. 	Stakeholders and interested public	25EU countries and other selected countries	FEEM WPs 1, 2
January 2008	Submission of papers to stakeholders	Submission of paper on policy that will be presented to the workshop.	Stakeholders	25EU countries and other selected countries	VITO
April 2008	Workshop	Policy	Stakeholders	Belgium	VITO WPs 8-11
April 2008	Newsletter	Results	Stakeholders and interested public	25EU countries and other selected countries	FEEM WP1-12
June 2008	Submission of papers to stakeholders	Submission of paper on final results that will be presented to the workshop.	Stakeholders	25EU countries and other selected countries	ISIS
September 2008	Final Conference	Results	Stakeholders	Italy	ISIS
	Newsletter	Final results	Stakeholders and interested public	25EU countries and other selected countries	FEEM WP1-12

3.2 Activities

Dissemination activities are a fundamental component of the whole strategy devised by CASES to serve the wider European research, policy and business community and the public at large. A wide set of activities is used to disseminate the new knowledge created within the network. Management and co-ordination of the knowledge derived from the activities take place during the whole duration of the project. Dissemination activities are implemented through a different range of measures.

3.2.1 Project web site

The **interactive web site** (<http://www.feem-project.net/cases/>) has been established for the dissemination of broad information on the co-ordination activity covering partnership, objectives, time schedules, activities (including workshops, meetings, etc.), results, reports and deliverables. Moreover useful policy documentation, links and references are provided. Efforts in this area are meant to give the largest dissemination to the output of the project. This will also lead to continuing collaboration and an increasingly concerted approach between the partnership, the EU and other interest parties. In this, the web site is also a fundamental source of dissemination. To ease the interaction between CASES and the outer world, an information e-mail service on the web site will be established to help visitors learn more on CASES as such and to submit questions, tips or comments. The information e-mail service may thus help identify other issues that are relevant to the implementation of the project and that have not been raised by the partnership.

3.2.2 Electronic Newsletter

The dissemination activities include the establishment of an **electronic newsletter** to ensure prompt, updated and easy communication on project news. The newsletters are sent on a six months basis, to an e-mailing list which includes organisations outside the consortium and interested parties (such as policy makers and stakeholders or individuals) expressing their interest in CASES' activities. Confidential communication remains restricted to the consortium.

The Newsletter updates readers on the progresses of the Coordination Action and contains direct links to the deliverables. The first newsletter will be sent in April 2007 with first preliminary results concerning energy scenarios, costs and methodology. The second newsletter is scheduled at November 2007 to present the definition of electricity scenarios by country and primary fuel for 2010-2020-2030 and the assessment of full costs for 25-EU and some non-EU countries. With the third and the fourth newsletters the final results of the project will be disseminated. They will be released in April 2008 and after the end of the project.

3.2.3 Project presentation

Particularly useful in order to raise public participation and awareness is a brief project presentation prepared and published on the web site by the Coordinator. The presentation includes a brief synopsis and a more extensive description of the project. It is intended to be accessible to the non-specialists, avoiding technical language, mathematical formulae and acronyms as much as possible. In addition to the publication via the web site (available in pdf file format) other media may be sought. The European Commission services may publish the project presentation and periodic updates of it will be carried out upon the Commission's request. The 2-3 page synopsis of the project is written in English, and where appropriate in other languages to achieve full dialogue and interaction with all actors from a non-technical arena, also in non English-speaking countries.

A Power Point project presentation reflecting the project presentation objectives, methodology and expected results is also produced by the Coordinator at the beginning of the project and is available for public use, downloadable from the project web site. This is the basis of the presentations made by the Consortium partners at the various external events mentioned in Section 3.2.5, which concerns other conferences, workshops and seminars. The Power Point presentation should be updated each time the project presentation is updated.

3.2.4 Project events

Two stakeholders workshops and a final conference are organised to present main results of the co-ordination activities. The devised meetings represent a clear means towards dissemination to a wide audience of qualified players composed by academic excellence, key stakeholders and end-users, policy and business communities and civil society organisations. The objective is to go beyond standard end-of-pipe dissemination activities and achieve full dialogue and interaction with all

actors for the mobilisation of the strategic intelligence currently distributed across a large number of stakeholders.

Each event is organised by a different participant and it is held in a different geographical location (Germany, Belgium, Italy). The organisation of each meeting in a different geographical location favours dissemination to different types of audiences, depending on the location of the event and the capability to attract local social actors. This eventually guarantees maximum outreach of the activities. Public participation is free of charge.

To achieve full dialogue and interaction all preliminary and final results to be presented to the events will be sent to all participants two months in advance. Participants are invited to submit comments and remarks on a voluntary basis.

The first stakeholders workshop will be held in Germany in September 2007. It will be organised by the Institute of Energy Economics and the Rational Use of Energy of the University of Stuttgart (USTUTT/IER) in order to confront preliminary results concerning private and external costs estimates.

The second stakeholders workshop will be held in Belgium in April 2008. It will be organised by the Flemish Institute for Technological Research (VITO) in order to confront preliminary results concerning political analysis.

The Final Conference will be organised by ISIS in Italy, at the end of the project (September 2008). The Final Conference conveys all the participants of the Consortium Agreement and presents the results of the network to the academic, policy and business communities and civil society organisations. This event will be appropriately publicised through media means (press, partners journals, web) in order to achieve the widest audience.

3.2.5 Other conferences, workshops and seminars

All partners will participate to other scientific and policy meetings in order to present the project and its preliminary and final results, both during and after the end of the project. This includes national and international workshops and conferences, events organised by the European Commission DG Research, Environment and other relevant DGs, and internal seminar at university level. Project results will be properly presented, discussed and disseminated. Participation to such events and results to be presented is previously agreed within the Consortium and the EC financial contribution to the project is properly acknowledged. All partners participate to the identification of relevant events to which the CASES' Consortium Agreement is presented. The Co-ordinator drafts a preliminary "Events Bulletin" and uploads it on the project intranet. The bulletin is regularly updated by the Coordinator. A final list of events at which the project has been presented is included in the reports presented to the EC. Project funds cover participation to these events, if necessary.

3.2.6 Publications

Publication activities are actively pursued. Preliminary versions of the research papers are disseminated through the working paper series of FEEM and distributed both electronically and in paper copies. The series is currently included in the Economics Research Institutes Paper Series of SSRN, RePEc and in Econlit (and downloadable free-of-charge). Links to the working papers are posted on the public section of the project web site.

Working papers are meant as intermediate outputs and their aim is precisely to stimulate the debate and to encourage broader understanding and discussion/debate on the themes. Publications in peer-reviewed journals are also actively sought. Updated publication on the project activities are actively sought in specialised journals and newspapers. This includes local, national and international press. This activity is addressed by all partners. Publication of research papers in scientific journals is also sought to inform the scientific audience of the results of the CASES initiative.

Before the publication a 30 days advance notice to the EC is required. Before the end of this period the publication can be submitted to all partners as confidential and can be published on the reserved area of the website, restricted to members of the consortium. After the end of the 30-day period, if no objections are presented by the EC, the publication can be released and disseminated to all the public.

At the end of the project, a book summarising thirty months of co-ordination efforts will be published. The book will be disseminated both through the web site and in paper copies. It is provisionally designed as a collection of refined and more thorough versions of the preliminary research papers and outputs produced in the Consortium Agreement, taking account of reactions to the preliminary dissemination activities and the progress of the project in thirty months of activities.

3.3 Public of the project

The dissemination of the project is targeted to political institutions, private firms, and consumers at international and at national level. Information about and conclusions of CASES shall be sent to the representatives of the institutions indicated below; they will also be involved as stakeholders in dedicated workshops and in the final conference. The list below is non-exhaustive and shall be expanded whenever a relevant international stakeholder is identified.

EU/international research community and stakeholder associations

- Eurelectric, Union of the electricity industry
- IEA, International Energy Agency
- ISEO, International Sustainable Energy Organisation
- WEC, World Energy Council
- EAERE European Environmental and Resource Economists Association
- IAEE International Association for Energy Economics

Associations and NGOs

- Greenpeace international
- WWF international
- ANCF, Animal & Nature Conservation Fund
- FoEI, Friends of the Earth International
- ICLEI, International Council for Local Environmental Initiatives

International investors and financial advisors

- European Bank of Investments
- Fortis Bank
- Ernst and Jung
- KPMG
- MC Kinsey

At local level, at least in each 25-EU country, the dissemination activities are directed to:

- *Policy sphere* includes ministries and national institutions related to energy production, industrial development and environment (The Ministry of Economic Affairs, as well as that of Environmental Affairs).
- *Business*; in this group are included energy producers and distributors, financial and industrial advisors, which operate in the energy industry, and banks involved in project financing for the energy sector.
- *General public*; in this group are included consumers' and environmental organisations and students of technical and environmental faculties. Since it is not possible to focus on the society as a whole, the project will focus on a specific target group which is representative of the society, moreover it is the reservoir of tomorrow's stakeholders and policy makers.

These are the students of postgraduate programmes on Energy & Environment through out Europe.

In addition project results will be presented also with non technical means to young students, by organising specific activities and online initiatives involving secondary schools. The integration with other projects developed by the coordinator or by other partners will be supported to promote this kind of dissemination.

3.4 Dissemination at national level – The Italian example

In addition to the dissemination guideline presented above, which includes the list of international stakeholders for all countries, it is important to have for each country a detailed plan of events and a comprehensive list of local stakeholders. These lists for 25EU countries and for selected non EU countries will be annexed to this document.

Here we provide the plan of events and the list of stakeholders for the local dissemination in Italy, as an example of the public of the project at national level.

To promote the dissemination of the project at local level is important to present the project and its results at **conferences and workshops**. Some selected initiatives, which take place in Italy, are the following¹:

- National meeting of the Italian ecological society
- The future of science world conference evolution
- World energy congress

In Italy, the dissemination of the project is directed to the stakeholders and to representatives of the general public such as those listed below.

Policy sphere

- Italian Ministry of economic development
- Italian Ministry of economic and finance
- Italian Ministry of Environment and soil and sea protection
- Terna
- GRTN Manager of the National electricity transmission network
- GME (Manager of the electricity market)
- The single electricity buyer
- The authority for electric energy and gas

Business – energy producers and advisors

- Assoelettrica - Italian National Association of Electricity Enterprises

Business – principal energy distributors operating in Italy

- ENEL
- ACEA Roma
- AEM Milano
- AEM Torino
- META Modena
- ACEGAS Trieste
- ASM Brescia
- AMPS Parma

Business – principal banks and financial institutions financing the electricity sector in Italy

- ABI – The Italian Banking Association

¹ This list is for illustrative purposes and non-exhaustive. However, every effort will be made in order to agree, with the organizers of the selected events, upon the involvement of CASES in these initiatives.

General Public

- Adiconsum – Society for consumers and environment protection
- Adoc – Society for consumer protection and advice
- ACU – Consumer and user society
- Codacons – Coordination of societies for environment and consumer protection
- Altroconsumo – Consumer committee other-consumption
- CTCU-VZS – Consumer protection center
- ACLI – Consumer league
- Movimento consumatori – consumer movement
- Unione nazionale consumatori – National consumer union
- ACUSP – Public services users society
- Legambiente
- FAI – Italian environment fund
- Postgraduate students of scientific and environmental universities and faculties related to energy
- Schools