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CASES
Cost Assessment of Sustainable Energy Systems

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[Report on raising public participation and awareness]

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PU	Public	
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)	X

REPORT ON RAISING PUBLIC PARTICIPATION AND AWARENESS

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1. Introduction

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 provides 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 contributes 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.

The dissemination of the knowledge on electricity generation costs is the third objective of the CASES project. Once evaluated and brought into a coherent framework, the results of the different components of the project are of great interest for the energy sector producers and users, as well as for the policy-making community. Dissemination consists of a set of activities to validate and disseminate the projects outputs. These activities range from publication of articles in the peer-reviewed literature, to presentations and lectures at project workshops and conferences involving key stakeholders and policy makers, and at external seminars, workshops and conferences, to open discussions with energy producers' and end-users' organisations.

The activities carried out by the project to disseminate results are widely reported on the dissemination 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.

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

1. The first step concerned 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 was 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) took 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 has been the Final Conference, presenting the outcome of the whole activity to the energy community. Results discussed in that occasion included 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 addressed also the scientific/academic community.

Thus, the results presented at the end of the CASES project, collected in a book which will be submitted for publication in the first months of 2009, 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 have been sought. Coupled with the broad consultation of stakeholders at all phases of the project, this ensures widespread use of the methodology and estimates derived from this project in policy making at EU and nation-state level.

2. 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 is sent to the representatives of the institutions indicated below; they will also be involved as stakeholders in dedicated workshops and in the final conference. A contacts database joint with NEEDS project has been compiled, it contains the contact details of European stakeholders who should be contacted for dissemination.

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, that which operate in the energy industry, and banks involved in project which financing for the energy sector by project financing.
- *General public*: in this group are included consumer's 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 focuses 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 throughout Europe.

3. Public participation raised by project events

Two stakeholders workshops and a final conference were 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. These events allowed to go beyond standard end-of-pipe dissemination activities and to achieve full dialogue and interaction with all actors for the mobilisation of the strategic intelligence currently distributed across a large number of stakeholders.

The first stakeholders workshop

The first workshop of the CASES project on “Cost Assessment for Sustainable Energy Markets” took place in Brussels, on the 18th February 2008. The event focused on internal (private) and external costs of electricity generation and supply in and outside the European Union. The methodology to estimate internal and external costs, and the results of applying this methodology was presented and discussed. The costs of electricity generation and distribution are the most important criteria shaping decisions within the electricity system. However, the influence on the environment and human health due to climate change, air pollution, emissions to water and soil, and in addition security of energy supply should also be adequately taken into account. This includes impacts from the whole life cycle of electricity supply and not only the operation of a power plant. Thus results from an LCI (Life Cycle Inventory) assessment have to be used. To be able to compare the different impacts of different technologies and systems, the impacts (risks, damage) have to be transformed in a common unit. The ‘ExternE’ methodology is used to weight the, mostly site depended, impacts according to the preferences of the society. As result damage costs, which are mostly external costs are obtained. The sum of the ‘private’ costs and external costs are the so called social costs. For example, the social costs of an innovative renewable technology may be competitive or even smaller than the social costs of a conventional fossil fuelled technology, even if private costs are higher. The technological progress offers solutions for the challenge of a more sustainable energy supply. The comparison of internal and external cost can help to identify the technologies mix to be aspired.

The stakeholder workshop included:

- Internal cost assessment techniques and results
- LCI assessment techniques and results
- Damage costs / external cost assessment techniques and results
- Energy supply externalities
- How to use internal and external costs to achieve a more “sustainable development”.

The event raised a good participation of public. Stakeholders from many institutions participate to the workshop. The complete list of participants follows below.

Surname	Name	Institution	Partner / stakeholder
McClowry	Angela	British Energy	stakeholder
Alessi	Monica	Centre for European Policy Studies	project partner
Behrens	Arno	Centre for European Policy Studies	project partner
Lechon	Yolanda	Centro de Investigaciones Energéticas, Medioambientales y Tecnológicas	project partner

Surname	Name	Institution	Partner / stakeholder
Dellero	Nicole	COGEMA (society Areva)	stakeholder
Post	Lourens	CONCAWE	stakeholder
Tennbakk	Berit	ECON Analysis AS	project partner
Léchaudé	Didier	Electrabel - Metier Generation	stakeholder
Bauduin	Philippe	Electricité de France	stakeholder
Adjarova	Liyana	Energy Agency of Plovdiv	project partner
de Wild-Scholten	Mariska	Energy Research Center of the Netherlands	stakeholder
van der Zwaan	Bob	Energy Research Centre of the Netherlands	stakeholder
Qiang	Liu	Energy Research Institute	project partner
Zuloaga	Francisco R.	EURELECTRIC	stakeholder
Taurisano	Marie	European Commission - DG TREN	stakeholder
Miskolczi	Zsolt	European Commission DG Env., Ind.Emissions & Protection of the Ozone Layer	stakeholder
Panopoulos	Odissefs	European Commission DG Research	project officer
GANZLEBEN	Catherine	European Environmental Bureau	stakeholder
Knolle	Gesine	EWEA - European Wind Energy Association	stakeholder
Bigano	Andrea	Fondazione Eni Enrico Mattei	project partner
Markandya	Anil	Fondazione Eni Enrico Mattei	project partner
Porchia	Roberto	Fondazione Eni Enrico Mattei	project partner
Rabl	Ari	Fondazione Eni Enrico Mattei	project partner
Gaggi	Silvia	ISIS - Istituto di Studi per l'Integrazione dei Sistemi	project partner
Streimikiene	Dalia	Lithuanian Energy Institute	project partner
Škornik	Silvo	Ministry of the Economy, Directorate for Energy	stakeholder
Tourkolia	Christos	National Technical University of Athens	project partner
Al-Shorachi	Klarissa	Representation of the Free State of Bavaria to the European Union	stakeholder
Robra	Anna	Representation of the State of Rhineland-Palatinate	stakeholder
Halsnaes	Kirsten	Risoe National Laboratory DK	project partner
Rosendahl Appelquist	Lars	Risoe National Laboratory DK	project partner
Zhu	Xianli	Risoe National Laboratory DK	project partner
Gasparino	Ugo	RWE npower plc	stakeholder
Opdenacker	Philippe	Suez-Tractebel	stakeholder
Ataç	Özlem	Türkiye Bilimsel ve Teknik Arastirma Kurumu	stakeholder
Arnold	Steve	University of Bath	project partner
Boekenkamp	Gesine	University of Flensburg	project partner
Hohmeyer	Olav	University of Flensburg	project partner
Blesl	Markus	University of Stuttgart, IER	project partner
Klotz	Volker	University of Stuttgart, IER	project partner
Preiss	Philipp	University of Stuttgart, IER	project partner
Rainer	Friedrich	University of Stuttgart, IER	project partner
Czajkowski	Mikolaj	University of Warsaw - Warsaw Ecological Economic Center	project partner
Setterwall	Caroline	Vattenfall Elproduktion Norden	stakeholder
Int Panis	Luc	VITO - Flemish Institute for Technological Research	project partner
Nijs	Wouter	VITO - Flemish Institute for Technological Research	project partner
Torfs	Rudi	VITO - Flemish Institute for Technological Research	project partner
Kuik	Onno	Vrije Universiteit Amsterdam-Institute for Environmental Studies	project partner
Boureira	Faycal	Vrije Universiteit Brussel	project partner
Wesseler	Justus	Wageningen Universiteit	project partner

The second stakeholders workshop

The Second Stakeholders' Workshop on "Policy Instruments in the Electricity Sector" focused on the assessment of policy instruments in the electricity sector. During the workshop, results on a comparison of policy instruments were presented and a Multi Criteria Decision Analysis was performed by all participants. The workshop took place in Bruges (Belgium) the 23rd of April, 2008.

The event raised a good participation of public. The participants were from the policy and industry community. The complete list of participants follows below.

Name	Surname	Company/Institution	Partner / stakeholder
Nicole	Dellero	AREVA (FR)	stakeholder
Maria Teresa	Baggio Rossi	Baggio Rossi Consultores Ltda (ES)	stakeholder
Anne	Fierens	Belgian Science policy Office	stakeholder
Ronald	Piers de Raveschoot	Bruxelles Environnement - IBGE-BIM	stakeholder
Arno	Behrens	CEPS - Centre for European Policy Studies	project partner
Denise	Van Regemorter	CES KULeuven	stakeholder
Yolanda	Lechon	CIEMAT (ES)	project partner
Ad	Seebregts	ECN (NL)	project partner
Berit	Tennbakk	Econ Pöyry (DK)	project partner
Luc	Van Nuffel	ELECTRABEL	stakeholder
Hilde	De Buck	ELECTRABEL N.V.	stakeholder
Philippe	Bauduin	Electricité de France	stakeholder
Marie-Anne	Georgel	Energie Baden-Württemberg	stakeholder
Beatriz	Yordi	European Commission - EACI	stakeholder
Katri	Kosonen	European commission,DG TAXUD	stakeholder
Anil	Markandya	FEEM (IT)	project partner
Roberto	Porchia	FEEM (IT)	project partner
Donaat	Cosaert	Flemish Parliament / viWTA	stakeholder
Martha	Barata	Fundação COPPETEC (Brazil)	project partner
Regina	Eich	IEF-STE Forschungszentrum Jülich GmbH (DE)	stakeholder
Philipp	Preiss	IER, University of Stuttgart	project partner
Plamen	Tzvetanov	EAP (BG)	project partner
Leonardas	Rinkevicius	Kaunas University of Technology, dp. of Sociology (LT)	stakeholder
Dalia	Streimikiene	Lithuanian energy institute	project partner
Ibrahim	Wilson	Ministry of Energy and Power (Sierra Leone)	stakeholder
Danae	Diakoulaki	National Technical University of Athens (EL)	project partner
Christos	Tourkolias	National Technical University of Athens (EL)	project partner
Thomas	Niesor	Observatoire Méditerranéen de l'Energie	stakeholder
Houda	Ben Janet Allal	Observatoire Méditerranéen de l'Energie (FR)	stakeholder
Holger	Schlör	Research Centre Jülich, Inst. of Energy Research (DE)	stakeholder
Zhu	Xianli	Risø-DTU (DK)	project partner
Marc	Deprez	SPF ECONOMIE - DG ENERGIE	stakeholder
Ben	Peeters	University Hasselt	stakeholder
Johan	Couder	University of Antwerp	stakeholder
Wan-Jung	Chou	University of Bath (UK)	project partner
Gesine	Boekenkamp	University of Flensburg (DE)	project partner
Abdallah	Benbekhti	University of SidiBelAbbes (Algeria)	stakeholder
Olga	Kiula	University of Warsaw	project partner
Daan	Beheydt	VITO	project partner

Name	Surname	Company/Institution	Partner / stakeholder
Wouter	Nijs	VITO	project partner
Nele	Renders	VITO	project partner
Frank	Sleuwaert	VITO	project partner
Rudi	Torfs	VITO	project partner
Justus	Wessler	Wageningen University	project partner

The Final Conference

The Final Conference on “Social Costs of Electricity Generation and Policy Design” took place in Milan at the FEEM premises, on the 30th September 2008. The conference program was divided into three main sessions devoted to the presentation of the results of CASES in terms of, respectively, the social costs of electricity generation, the policy design options to internalise externalities in the electricity sector, and the electricity scenarios for different technologies for 2010, 2020 and 2030. The results of the project were presented and discussed with the policy community, researchers and stakeholders.

The event raised a good participation of public. Stakeholders, politician and researchers from many institutions participate to the workshop. The complete list of participants follows below.

Name	Surname	Company/Institution	Partner / stakeholder
Mauro	Formaggio	AEEG	stakeholder
Ugo	Farinelli	AIEE	stakeholder
Nicole	Dellero	AREVA	stakeholder
Marcella	Pavan	Autorità per l'energia elettrica e il gas	stakeholder
Giulia	Detomati	Avanzi	stakeholder
Arianna	Checchi	Centre for European Policy Studies (CEPS)	project partner
Michele	Benini	CESI RICERCA S.p.A.	stakeholder
Pierpaolo	Girardi	CESI RICERCA S.p.A.	stakeholder
Alberto	Gelmini	CESI Ricerca Spa	stakeholder
Giuseppe Maurizio	Riva	CESI Ricerca Spa	stakeholder
Jan	Melichar	Charles University Environment Center	project partner
Yolanda	Lechón	CIEMAT	
Carmelina	Cosmi	CNR-IMAA	stakeholder
Vincenzo	Cuomo	CNR-IMAA	stakeholder
Antonio	Scotti	Comune di Milano	stakeholder
Pete	Roberts	Concawe	stakeholder
Berit	Tennbakk	Econ Pöyry	project partner
Walter	Ott	Econcept AG	stakeholder
Till	Bachmann	EIFER	stakeholder
Philippe	Baudin	Electricité de France	stakeholder
Umberto	Ciorba	ENEA	stakeholder
Francesco	Gracceva	ENEA	stakeholder
Plamen	Tzvetanov	Energy Agency of Plovdiv	project partner
Johannes	Kerner	EPFL	stakeholder
Florian	Kienzle	ETH Zurich	stakeholder
Antonis	Papaemmanouil	ETH Zurich	stakeholder

Name	Surname	Company/Institution	Partner / stakeholder
Bert	Droste-Franke	Europäische Akademie Bad Neuenahr-Ahrweiler GmbH	stakeholder
Danielle	Devogelaer	Federal Planning Bureau	stakeholder
Dominique	Gusbin	Federal Planning Bureau	stakeholder
Daniele	Forni	FIRE	stakeholder
Andrea	Bigano	Fondazione Eni Enrico Mattei	project partner
Manfred	Hafner	Fondazione Eni Enrico Mattei	project partner
Anil	Markandya	Fondazione Eni Enrico Mattei	project partner
Roberto	Porchia	Fondazione Eni Enrico Mattei	project partner
Ari	Rabl	Fondazione Eni Enrico Mattei	project partner
Aurélie	Balcon	GDF Suez	stakeholder
Marine	Gremont	GDF Suez	stakeholder
	Kaddouh	GDF Suez	stakeholder
Hélène	Connor	Helio International	stakeholder
Dolf	Gielen	IEA	stakeholder
Markus	Blesl	IER Universitaet Stuttgart	project partner
Rainer	Friedrich	IER Universitaet Stuttgart	project partner
Philippe	Preiss	IER Universitaet Stuttgart	project partner
Renata	Slabe Erker	Institute for Economic Research, Ljubljana	stakeholder
Stefano	Faberi	ISIS	project partner
Silvia	Gaggi	ISIS	project partner
Andrea	Ricci	ISIS	project partner
Onno	Kuik	IVM, VU University Amsterdam	project partner
Martha	Barata Macedo de Lima	LIMA/COPPE/UFRJ and FIOCRUZ	project partner
Jacek	Jaskiewicz	Ministry of the Environment	stakeholder
Danae	Diakoulaki	National Technical University of Athens	project partner
Christos	Tourkolias	National Technical University of Athens	project partner
Ståle	Navrud	Norwegian University of Life Sciences	stakeholder
Thomas	Niesor	OME (Observatoire Méditerranéen de l'Energie)	project partner
Jacques	Kappauf	OME -Office Méditerranéen de l'Energie	project partner
Giulia	Fiorese	Politecnico di Milano	stakeholder
Marcello	Magoni	Politecnico di Milano	stakeholder
Xianli	Zhu	Risoe DTU	project partner
Ugo	Gasparino	RWE npower	stakeholder
Enzo	Di Giulio	Scuola Enrico Mattei, Eni Corporate University	stakeholder
Steivan	Defilla	State Secretariat for Economic Affairs	stakeholder
Daniele	Gubetta	Studio Belgiojoso	stakeholder
Özlem	ATAÇ	TUBITAK MRC	project partner
Selda	SEZGİNGİL	TUBITAK MRC	project partner
Stefano	Pareglio	Università Cattolica S. Cuore	stakeholder
Wan-Jung	Chou	University of Bath	project partner
Gesine	Boekenkamp	University of Flensburg	project partner
Davide	Poli	University of Pisa – Dept of electrical systems and automation	stakeholder
Antonio Salvatore	Trevisi	University of Salento	stakeholder
Neil	Odam	University of Stirling	stakeholder
Mikołaj	Czajkowski	University of Warsaw	project partner
Wouter	Nijs	VITO	project partner

Name	Surname	Company/Institution	Partner / stakeholder
Justus	Wessler	Wageningen University	project partner

4. Public participation raised by other activities

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.

The universality of the Internet instrument allows making the results of the project available to general public. FEEM, as project coordinator, was contacted by many persons, interested to the project, who know about the project from the web site. Results of the project were disseminate by the web site in particular to university and Phd students from Europe.

Newsletter

The dissemination activities include the establishment of an electronic newsletter to ensure updated and easy communication on project news. The newsletters are sent prompt, to an e-mailing list which includes organizations 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 was sent in April 2007 with first preliminary results concerning energy scenarios, costs and methodology.
- The second newsletter was sent at January 2008 to present the results and the assessment of private, external and full costs for 25-EU and some non-EU countries.
- The third newsletter was sent at the beginning of September 2008 to present the final results.

The newsletters were published on the CASES website, hence newsletters are available to all interested stakeholders, students, policymakers and researchers. Interested people could also subscribe the newsletter from the web site. In addition newsletters were published and distributed to all stakeholders attending the workshops and the final conference.

The list below reports the addresses of subscribers to the newsletters:

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