



Internationale Konferenz
für Erneuerbare Energien, Bonn
International Conference
for Renewable Energies, Bonn

Draft International Action Programme

as of May 28, 2004

**Final Draft is to be submitted to the conference for
endorsement**

Important notice:

1. Commitments and Actions have been authorised for publication by the contributors.
2. As of May 28, 2004, in total **50 contributions** have been submitted; some 30 additional submissions are under preparation.
3. **Further contributions** to the IAP are invited and will be accepted until **June 3, 2004, 12.00 a.m. (noon)**
4. For **further information** and updates, please, see http://www.renewables2004.de/en/2004/outcome_actionprogramme.asp



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1. Introduction

The International Conference for Renewable Energies, *renewables2004* (June 1-4, 2004) in Bonn, Germany, charts the way towards expanding the use of renewable energies worldwide and their integration into a broader effort to shape a highly efficient and sustainable energy future.

One of the key outcomes of the conference, this International Action Programme (IAP) consists of concrete actions and commitments by governments and other actors. The participating ministers and governments have [welcomed] this International Action Programme in their [Political Declaration], thus underlining the close connection between the International Action Programme as a portfolio of actions and the other conference outcomes.

Governments, the United Nations, other international organisations including international financial institutions and stakeholders from civil society, the private sector and other stakeholder groups have contributed to the International Action Programme. All actions and commitments included are of a voluntary nature and are the result of a bottom-up approach. They reflect specific national and regional conditions, capacities of actors, specific sectoral objectives and overall development targets of the contributors.

This document compiles the actions and commitments put forward by contributors by June 3, 2004.

2. List of Actions and Commitments sorted alphabetically by leading actors

Section A:

Actions and Commitments by Governments, the United Nations and other international organisations, including international financial institutions

Leading Actor(s)	Participating Actor(s)	Title of Action or Commitment	Page
Afghanistan / Ministry of Water and Power; France / Ministère des Affaires Etrangères; Germany / Federal Ministry for Economic Cooperation and Development (BMZ)	Fonds Français pour l'Environnement Mondial (AFD/FFEM), Agence de l'Environnement et de la Maîtrise de l'Energie (ADEME), Groupe Energies Renouvelables, Environnement et Solidarité (GERES), KfW Bankengruppe, Deutsche Gesellschaft für Technische Zusammenarbeit (GTZ)	Afghan-French-German Energy Initiative (AFG – Energy Initiative)	
African Development Bank (ADB) / Sustainable Development and Poverty Reduction Unit (PSDU)	African Development Bank and its Regional Member Countries	ADB FINESSE Africa Program	
Asia-Pacific Economic Cooperation (APEC) / Experts Group on New and Renewable Energy Technologies; Evolution Technologies Ltd	APEC Energy Working Group, NZ Ministry of Economic Development, APEC Member Governments	APEC-CPI – the global new and renewable energy technologies forum and marketplace	
China / Energy Bureau of National Development & Reform Commission	Related government agencies; related enterprises; Centre for Renewable Energy Development (CRED) of Energy Research Institute; China Renewable Energy Industrial Association (CREIA)	Formulating National Renewable Energy Development Strategy and Plan (NREDSP)	
European Union (EU); Association of Southeast Asian Nations (ASEAN)	Organisations, institutions and companies from EU and ASEAN	EC-ASEAN Energy Facility (EAEF)	

Section A, continued

Leading Actor(s)	Participating Actor(s)	Title of Action or Commitment	Page
Finland / Ministry for Foreign Affairs	Central American System for Integration (SICA), Central American Commission on Environment and Development (CCAD) and Finnish and Central American private sector companies and institutions	Energy and Environment Partnership with Central America	
Finland / Ministry of Trade and Industry	Other countries, European Commission, international organisations	International Workshop: Promotion of Energy Efficiency and Renewables by Energy Auditing	
Germany/ Federal Ministry for Economic Cooperation and Development (BMZ); Inter-American Development Bank	KfW Bankengruppe, Deutsche Gesellschaft für Technische Zusammenarbeit (GTZ), UN Economic Commission for Latin America and the Caribbean (ECLAC), Latin American Energy Organization (OLADE) and existing networks in the region	IDB – BMZ Strategic Partnership	
Germany / Federal Ministry for Economic Cooperation and Development (BMZ); Association of Southeast Asian Nations (ASEAN)	Organizations, institutions and companies from Germany and ASEAN	ASEAN - German Mini Hydro Program (AGMHP)	
Germany / Federal Ministry for Economic Cooperation and Development (BMZ)	United Nations Environmental Programme (UNEP), Global Environment Facility (GEF), partner countries, Bundesanstalt für Geowissenschaften und Rohstoffe (BGR), KfW Entwicklungsbank	Geothermal Energy Initiative	
Germany / Federal Ministry for the Environment, Nature Conservation and Nuclear Safety	none	Implementation of the Strategy of the German Government on the use of Off-shore Wind Energy	
Global Environment Facility (GEF)	International Organizations (GEF and its Implementing Agencies) and member country governments	Data and structured analysis on Renewable Energy markets, policies and use in developing countries	
Global Environment Facility (GEF)	International Organizations	Finance for developing markets for Renewable Energy in Developing	

Section A, continued

Leading Actor(s)	Participating Actor(s)	Title of Action or Commitment	Page
		Countries	
Italy / Italian Ministry for the Environment and Territory (IMET)	Regional and Local Authorities, public and private actors	Italian National Programmes on Renewables	
Italy / Government of Italy; Italian Ministry for the Environment and Territory (IMET); Italian Ministry for Productive Activities; Gestore della Rete di Trasmissione Nazionale SpA (GRTN); Gestore del Mercato Elettrico SpA (GME)	Electricity producers, Regional and Local Authorities, public and private sectors, other governments	Italian Policy for a Renewable Energy Market	
Italy / Italian Ministry for the Environment and Territory (IMET)	(1) Tsinghua University (China), Politecnico di Milano, MCA Mario Cucinella Architects, China Architecture Design & Research Group; (2) Ente Parco Dolomiti Bellunesi; (3) Municipality of Specchia (Lecce/Italy).	Italian Pilot Projects on Renewable Energy and Energy Efficiency	
Italy / Italian Ministry for the Environment and Territory (IMET)	Ministry for Industry and Energy of Tunisia (TMIE), Tunisian National Agency for Renewable Energies (ANER), New & Renewable Energy Authority of Egypt (NREA), Centre for Renewable Energy Development (CDER) of Morocco, Ministry for Resources and Infrastructure of Malta, Ministry of Water and Environment of Yemen, French Agence de l'Environnement et de la Maitrise de l'Energie (ADEME), International Energy Agency (IEA), International Solar Energy Society Italy (ISES ITALY), Mediterranean Association of the National Agencies for Energy Conservation (MEDENER), Observatoire Méditerranéen de l'Energie (OME), Regional	Italian Renewable Energy Initiatives (Type II): Mediterranean Renewable Energy Programme (MEDREP)	

Section A, continued

Leading Actor(s)	Participating Actor(s)	Title of Action or Commitment	Page
	Environmental Centre for Central and Eastern Europe (REC), United Nations Environment Programme (UNEP), World Bank		
New Zealand / Ministry for the Environment: Climate Change Office	New Zealand Ministry for Economic Development, Treasury, Energy Efficiency and Conservation Authority	Projects to Reduce Emissions	
Swedish Energy Agency; Swedish Environmental Protection Agency; Swedish National Forestry Board	Public sector actors in Eastern Europe (specifically in Russia and Ukraine) and Swedish public sector actors as well as private industry (Swedish utilities or companies responsible for energy supplies, Swedish suppliers of technology equipment for the use of renewable energy).	Supporting energy sector reform in Eastern Europe	
Uganda / Government of Uganda	Swedish International Development Cooperation Agency (Sida); World Bank.	Supporting the development of institutional capacity to manage rural electrification in Africa	
United Kingdom / Department of Trade and Industry	Government, industry and other interested parties	Extension of the profile of the Renewables Obligation from 2010/11 to 2015/16	
United Kingdom / Department of Trade and Industry	Government Administrations in Northern Ireland and Great Britain, Energy Regulation organisations, electricity suppliers in both Great Britain and Northern Ireland, renewable generating stations	Renewable Obligation Certificates	
United Kingdom / Department of Trade and Industry	Central and Local Government and Regional funding organisations and Industry	European Marine Energy Test Center	
United Kingdom / Department of Trade and Industry	Departments of Environment and Transport, Crown Estate, Office For Gas and Electricity Markets	Round 2 Offshore wind farm development in the UK	
United Nations Economic Commission for Latin America and the Caribbean (UN ECLAC); General Secretariat of the Andean Community	none	Andean Programme for Energization through Renewables (APER)	

Section A, continued

Leading Actor(s)	Participating Actor(s)	Title of Action or Commitment	Page
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Section B:

Actions and Commitments by Stakeholders from the Civil Society, the Private Sector and other Stakeholder Groups

Leading Actor(s)	Participating Actor(s)	Title of Action or Commitment	Page
Centre for Appropriate Technology (CAT), Cameroon	Government of Cameroon (Special Support Fund for Local Authorities, FEICOM; Divisional Delegations of Mines, Water Resources and Energy North West Province), Deutsche Gesellschaft für Technische Zusammenarbeit (GTZ), Local Councils (Donga Mantung, Bui, Menchum, Boyo, Mezam, Momo and Ngokentugia Divisions of the North West Province), Schools	Improve livelihood and environmental quality of the rural population in Cameroon through the promotion of the use and application of renewable energy technologies	
Confederation of European Paper Industries (CEPI), Belgium	CEPI, its national confederations and their members (companies)	CEPI's Declaration of Intent on Renewable Energy Sources	
Elsam Kraft A/S, Denmark	The Royal Veterinary and Agricultural University, Denmark; Risoe National Laboratory, Denmark; Sicco K/S, Denmark; Agrol Biotechnologies Ltd., United Kingdom; Energia Hidroelectrica de Navarra S.A., Spain	Integrated Biomass Utilisation System (IBUS)	
Environmental Investment Partners (EIP), Poland	PP Investments, as Fund Manager	Central European Renewable Energy Fund	
OAO "Derevoobtabot-chik" (Moscow / Russia), OOO Enteks (Moscow / Russia), Ec Bio-energie Heidelberg GmbH (Heidelberg / Germany)	Russia / Ministry of Energy, Russian Parliament, Germany / Ministry of Economics and Labour, German Energy Agency (Dena)	Cogeneration plant with bio-pellet production (Zapadnya Dvina, Tverskaya oblast, Russian Federation)	

Section B, continued

Leading Actor(s)	Participating Actor(s)	Title of Action or Commitment	Page
Renewable Energy and Energy Efficiency Partnership (REEEP)	Governments: UK, Austria, US, Italy, Ireland, Netherlands and Spain; Ghana, South Africa, the Philippines, Sri Lanka, Indonesia, Germany & Brazil. Businesses, NGOs and International organizations include: BP, Shell, Chinese Renewable Energy Industry Association, WWF International, European Commission, United Nations Industrial Development Organization (UNIDO), United Nations Environment Programme (UNEP) et al.	Renewable Energy and Energy Efficiency Partnership – REEEP	
Trans-Mediterranean Renewable Energy Cooperation (TREC)	11 actors/5 countries from Middle East, 10/4 from North Africa, 15/4 from European Union	Large scale solar thermal power and desalination as joint development effort by North Africa, the Middle East and Europe.	
Volkswagen AG, Germany; DaimlerChrysler AG, Germany	none	Biomass-Based SunDiesel	

Section A:

**Actions and Commitments by
Governments,
the United Nations and
other international organisations,
including International Financial Institutions**

Afghan-French-German Energy Initiative (AFG – Energy Initiative)

Region / country	Asia / Afghanistan
Leading actor(s)	Afghanistan / Ministry of Water and Power; France / Ministère des Affaires Etrangères; Germany / Federal Ministry for Economic Cooperation and Development (BMZ)
Participating actor(s)	Fonds Français pour l'Environnement Mondial (AFD/FFEM), Agence de l'Environnement et de la Maîtrise de l'Energie (ADEME), Groupe Energies Renouvelables, Environnement et Solidarité (GERES), KfW Bankengruppe, Deutsche Gesellschaft für Technische Zusammenarbeit (GTZ)
Main objective(s)	To improve the energy access for the rural population in Afghanistan through trilateral coordinated action .
Contents	Implementing the Integrated Power Supply Programme Chak-e-Wardak and initiation of other pilot projects within the long-term policy framework of the Ministry of Water and Power. Project activities include rehabilitation of Chak-e-Wardak mini-hydropower plant, construction of distribution network, promotion of energy efficient buildings and appliances, improvement of non-electric household energy supply, promotion of efficient energy use in income and employment generating activities, synergies with the health and education sector, training of local craftsmen and skilled workers in the respective techniques.
Expected results	<ul style="list-style-type: none"> • Until end of 2004 an integrated multi-sector sustainable energy concept will be drafted and subsequently implemented. Given the projects financial viability, in 2005 the necessary investment (in particular Chak-hydropower plant rehabilitation as well as construction of the distribution network) will commence. • Clarifying and demonstrating the synergies from using complementary forms of renewable energy, household energy supply and energy efficiency technologies in cold climatic zones in Afghanistan.
Target area / place	Chak-e-Wardak / Afghanistan as a starting point for further activities
Arrangement(s) for financing	Human resource inputs from all three partners; parallel funding and investment by the French and German governments.
Monitoring process and time frame	Monitoring through a trilateral supervisory group on ministry and embassy level. By Summer 2004, Afghanistan, France, Germany will have established effective coordination and process monitoring arrangements. Preliminary time horizon of the Initiative: 3 to 6 years
Other relevant information	The various partners are at present in the initial phase of the initiative by coordinating planning steps, institutional arrangements as well as commencing the first implementation steps in Kabul and Chak-e-Wardak. By 2006 the replication of the sustainable energy concept under similar conditions elsewhere in Afghanistan will be explored.
Contact person	Dr Ghulam Jelani Jelis , Deputy-Minister for Power, Ministry of Water and Power, Kabul, Tel.: +93 (0) 79 30 23 93, E-mail: Jelis22000@yahoo.de
Link	



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ADB FINESSE Africa Program

Region / country	Africa
Leading actor(s)	African Development Bank (ADB) / Sustainable Development and Poverty Reduction Unit (PSDU)
Participating actor(s)	African Development Bank and its Regional Member Countries
Main objective(s)	The proposed program supports the overarching development objective of poverty alleviation by providing improved access to electricity in developing countries in Africa.
Contents	The program will assist decision-makers in determining the appropriate policy framework and the proper regulatory and institutional set-up, and in addressing the capacity development needs of national authorities.
Expected results	<ul style="list-style-type: none"> • Establish Regional Member Countries' ownership and commitment to renewable energy and energy efficiency programs; • Increase capacity of African Development Bank staff to deal with renewable energy and energy efficiency issues; • Operationalize renewable energy and energy efficiency in the Bank's projects and programs; • Identify and prepare renewable energy and energy efficiency components to be included in Bank's lending portfolio.
Target area / place	ADB Member Countries
Arrangement(s) for financing	The ADB FINESSE program is funded by a grant from the Royal Dutch Government through its Ministry of Development Co-operation. Additional support for activities by the private sector arm of the ADB is received through technical assistance from the Danish Government.
Monitoring process and time frame	The ADB FINESSE program will be executed as a special program during 2004-2007, after which renewable energy and energy efficiency projects will be mainstreamed in the normal ADB activities. The program is subject to standard ADB procurement, monitoring and evaluation.
Other relevant information	Additional information about the program, as well as copies of a monthly newsletter are available from the FINESSE team via finesse@afdb.org .
Contact person	Dr. Yogesh Vyas , Head PSDU, ADB / Temporary Relocation Agency, B.P. 323, 1002 Tunis-Belvedere, Tunisia, Tel.: +216-7110 2178, Email: y.vyas@afdb.org ; Dr. Aimée Bella , FINESSE task manager, Tel.: +216-7110 2649, Email: a.bella@afdb.org ; Ir Wim Klunne (FINESSE co-ordinator), Tel.: +216-7110 3004, Email: w.klunne@afdb.org
Link	www.afdb.org



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APEC-CPI – the global new and renewable energy technologies forum and marketplace

Region / country	Asia Pacific
Leading actor(s)	Asia-Pacific Economic Cooperation (APEC) / Experts Group on New and Renewable Energy Technologies; Evolution Technologies Ltd.
Participating actor(s)	APEC Energy Working Group, NZ Ministry of Economic Development, APEC Member Governments
Main objective(s)	To bring together private and public sector players, from the APEC economies and globally, through a web-based collaborative trade platform to accelerate development and uptake of new and renewable energy technologies.
Contents	APEC-CPI (Collaborative Projects Integrator) is a secure database where participants can develop ideas, advertise skills, store research, look up an industry specific library, see the latest industry news, finance ideas, and develop ideas into projects and work on them in one environment that gives access to a range of resources.
Expected results	Improved global technology transfer leading to increased uptake of renewable energy technologies.
Target area / place	Asia Pacific and global
Arrangement(s) for financing	This is a public/private partnership with APEC and Evolution Technologies providing initial seed funding. Ongoing financing will be provided through subscription and opportunities for government and corporate sponsorship.
Monitoring process and time frame	APEC-CPI became operational on 15 May. It will be further developed as user feedback is gathered. It is reviewed at regular (2-3 times p.a.) meetings of “APEC Experts Group on New and Renewable Energy Technologies“. Its success will be evaluated by the level of subscriptions, and technology developed using APEC-CPI.
Contact person	Mr. Cary Bloyd , Chairman, APEC Experts Group on New and Renewable Energy Technologies, Argonne National Laboratory, Argonne, IL 60439, USA, Tel.: (01)301-651-8899, Email: bloyd@anl.gov; Ms. Dominique Dowding , Managing Director, Evolution Technologies Ltd, PO Box 82, Christchurch, New Zealand, Tel.: +64-3-379-9896, Email: ddowding@xtra.co.nz
Link	www.apec-cpi.com

Formulating National Renewable Energy Development Strategy and Plan (NREDSP)

Region / country	Asia / China
Leading actor(s)	China / Energy Bureau of National Development & Reform Commission
Participating actor(s)	Related government agencies; related enterprises; Centre for Renewable Energy Development (CRED) of Energy Research Institute; China Renewable Energy Industrial Association (CREIA)
Main objective(s)	Development of a national renewable energy strategy.
Contents	<ul style="list-style-type: none"> • Set up a national development targets • Develop an implementation plan • Make appropriate institutional arrangements • Develop a set of policy instruments • Develop financial scenarios
Expected results	<ul style="list-style-type: none"> • By 2010, the installed capacity of renewable energy will total about 60 GW and account for about 10% of China's total installed power generation capacity; this includes small-scale hydropower (50 GW), wind power (4GW), biomass power generation (6 GW), solar energy (450 MW). • By 2020, the installed capacity for power generated by renewable energy will reach about 121 GW, accounting for about 12% of China's total installed power generation capacity. • At the same time, great emphasis will be put on technologies using renewable energy to supply heat and on liquid biofuels, etc., so that the target of providing, by 2020, 200 million additional tons annually of standard coal equivalent (tce) of renewable energy of all types in the energy mix. This amounts to an additional 8,000 PJ, which would bring China's annual use of renewable energy up to 20,000 PJ and up to a 17% share in China's projected energy consumption in 2020.
Target area / place	China
Arrangement(s) for financing	CNY 3 billion will be allocated by the Ministry of Finance, and USD 40 million by the Global Environment Facility (GEF).
Monitoring process and time frame	2006 to 2020, the results will be monitored by National People's Congress.
Other relevant information	The NREDSP will be coordinated with other national development programs, such as rural electrification program, west development program and international assistant programs
Contact person	Mr. Shi Lishan ; Fax: +86-10-68501262; Email: hydrosls@sohu.com; Mr. Li Junfeng ; CRED & CREIA; Fax: +86-10-6390 8465; Email: lijf@public.bta.net.cn
Link	www.creia.net



EC-ASEAN Energy Facility (EAEF)

Region / country	Asia / ASEAN countries
Leading actor(s)	European Union; Association of Southeast Asian Nations (ASEAN)
Participating actor(s)	Organisations, institutions and companies from EU and ASEAN
Main objective(s)	<ul style="list-style-type: none"> • Increasing the security of energy supply of ASEAN and EU; • Increasing the economic exchanges between EU and ASEAN member countries; • Improving the environment at local and global level; • Facilitating a substantial implementation of the ASEAN Plan of Action for Energy Cooperation
Contents	The EAEF programme will stimulate regional energy projects and initiatives proposed by the energy industry, either public or private from the EU and ASEAN. The programme will co-finance groups of EU and ASEAN energy actors for the implementation of consistent projects which have a regional ASEAN dimension and which also clearly have a real EU added value, i.e. featuring the diversity of the EU experience in terms of institutional or technological options. The EAEF supports actually 18 renewable energy projects.
Expected results	<ul style="list-style-type: none"> • Contributions to institutional development in ASEAN countries; • Stronger linkages between EU and ASEAN business and policy makers; • Regulatory frameworks conducive to investment in regional energy issues • Detailed investment and business opportunities for energy equipment and service suppliers • EU technology solutions adapted to ASEAN conditions.
Target area / place	ASEAN countries
Arrangement(s) for financing	EC contribution is available 15-50 % and 100,000 – 500,000 EUR of the project total eligible costs under four facilities upon response to annual Calls for Proposals until 2006.
Monitoring process and time frame	Monitoring process of each project will be done by the members of Project Management Unit and the time frame for each project should not exceed 2 years.
Other relevant information	Financing support from EAEF can be obtained by submission of proposals to the Programme Management Unit (contacts and link see below).
Contact person	ASEAN Centre for Energy (ACE) , Jalan H.R. Rasuna Said, Blok X-2, Kav. 07-08, Kuningan, Jakarta 12950, Indonesia, Tel. + 62 21 5279332; Fax. + 62 21 5279350, Dr. Weerawat Chantanakome (weerawat@aseanenergy.org), Mr. Pekka Skytta (pekka.skytta@aseanenergy.org), Mr. Tjarinto S. Tjaroko (tjarinto@aseanenergy.org)
Link	www.aseanenergy.org/EAEF



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Energy and Environment Partnership with Central America

Region / country	Europe, Central America
Leading actor(s)	Finland / Ministry for Foreign Affairs
Participating actor(s)	Central American System for Integration (SICA), Central American Commission on Environment and Development (CCAD) and Finnish and Central American private sector companies and institutions.
Main objective(s)	<ul style="list-style-type: none"> • Increasing the share of renewable energy in energy supply of Central American countries • Reducing greenhouse gases emissions
Contents	<ul style="list-style-type: none"> • PV systems for rural electrification, partners in small hydro plants, feasibility studies for wind, geothermal and hydro plants, and projects related with regulation and better prices for renewable energies • Strengthening of human and institutional regional resources through capacity building. • Development, dissemination and implementation of sustainable demonstrative pilot projects. • 6 projects under execution and 15 more approved with funds • Project seed money finance, Partnership Forums
Expected results	<ul style="list-style-type: none"> • Strengthened institutional capacities in Central America for identification, design and implementation of renewable energy projects • Removal of legal and institutional barriers for renewable energies at low scale in the region. • Promotion and strengthening of renewable energy development in electricity emerging markets.
Target area / place	Central America / Guatemala, Honduras, Belize, El Salvador, Nicaragua, Costa Rica, Panama
Arrangement(s) for financing	Present organizational structures financed mainly by the Finnish Government. (EUR 3 million through Ministry for Foreign Affairs). Some funding from partners. Further funding for additional activities is being sought from new partners and stakeholders.
Monitoring process and time frame	The Supervisory Board (political level) and the Steering Committee (technical management) of the Partnership guide and supervise the activities. The programme is originally planned from 2003-2006. According to the positive results it might be extended.
Other relevant information	The Partnership was launched during the United Nations World Summit for Sustainable Development in Johannesburg 2002.
Contact person	Mr. Otto Leonel Garcia , Regional Coordinator of SICA , Tel: +503-289 6131, Fax: +503- 289 6126, Email: alianza_energia@sgsica.org
Link	www.sgsica.org/energia



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International Workshop: Promotion of Energy Efficiency and Renewables by Energy Auditing

Region / country	Europe / Finland
Leading actor(s)	Finland / Ministry of Trade and Industry
Participating actor(s)	Other countries, European Commission, international organisations
Main objective(s)	Promote energy auditing as an effective tool to find out measures to save energy and increase the use of renewable energy in companies and buildings.
Contents	Arrange an International Energy Audit Workshop in 2006. The workshop enables information sharing about experiences and results from energy auditing programmes in EU- and other countries. Also the preparation of an International Energy Auditing Programme, based on the experiences in the EU SAVE-Programme projects, will be discussed.
Expected results	<ul style="list-style-type: none">• Information and know-how exchange about energy auditing to participating countries,• Preparation of International Energy Audit Programme (including educational and capacity building),• Proposals for National Governments on how to prepare and implement National Energy Auditing Programmes,• Proposals for relevant international organisations on how to promote and support National Auditing Programmes.
Target area / place	Companies and buildings in industrialized countries and developing countries
Arrangement(s) for financing	Finnish Ministry of Trade and Industry plans fund allocation. Additional financing is being sought from the Intelligent Energy for Europe Programme (Coopener) and other participating governments.
Monitoring process and time frame	As a part of the preparation a monitoring process is planned. The auditing programme will be prepared after the workshop (autumn 2006) in a 3-year project in 2007-2009.
Contact person	Mr Heikki Väisänen , Ministry of Trade and Industry, Energy Department, P.O. Box 32, 00023 Government, Finland, Tel: +358-9-1606-4834, Fax: +358-9-1606-3997, Email: heikki.vaisanen@ktm.fi
Link	www.ktm.fi



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IDB – BMZ Strategic Partnership

Region / country	Europe / Germany
Leading actor(s)	Inter-American Development Bank; Germany/ Federal Ministry for Economic Cooperation and Development (BMZ)
Participating actor(s)	KfW Bankengruppe, Deutsche Gesellschaft für Technische Zusammenarbeit (GTZ) as well as UN Economic Commission for Latin America and the Caribbean (ECLAC), Latin American Energy Organization (OLADE) and existing networks in the region.
Main objective(s)	To advance the appropriate use of renewable energy and to encourage increased energy efficiency in LAC. Such cooperation would provide opportunities for the IDB to strengthen its engagement in renewable energy sources and energy efficiency, in particular through synergies of experiences and knowledge of German and Bank development cooperation in this field.
Contents	Establishment of a joint work program; strengthening of regional networks
Expected results	The expected results are, in particular, strategic assessments of and dialogue on new opportunities and challenges; institutional strengthening, training and dissemination on RE; project preparation and investment, in particular enlarging IDB's engagement in increasing renewable energy sources.
Target area / place	Developing countries in Latin America and the Caribbean (LAC)
Arrangement(s) for financing	The implementation of the strategic partnership will be supported, inter alia, by a regional German Technical Cooperation Project (Renewable Energy and Energy Efficiency in Latin America) with a volume of 2.6 Mio.€ Further funding for the implementation of specific projects/programs from IDB's and BMZ's resources will be explored.
Monitoring process and time frame	A strategic partnership agreement will be signed on the 3 rd of June; in July a more detailed joint work program will be elaborated; a small joint Germany/IDB steering committee will be established and will meet at least once per year in order to review activities and accomplishments.
Contact person	Mr. Heinrich Dehn , BMZ, Division 223, Friedrich Ebert-Allee 40, 53113 Bonn; Germany; Tel. +49-228-535 3580; Mr. Carlos M. Jarque , Manager, Sustainable Development Department, 1300 New York Avenue, NW; Washington DC 20577, USA, Tel.: (202) 623-1000)
Link	



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ASEAN – German Mini Hydro Program (AGMHP)

Region / country	Europe / Germany; Asia / ASEAN countries
Leading actor(s)	Germany / Federal Ministry for Economic Cooperation and Development (BMZ); Association of Southeast Asian Nations (ASEAN)
Participating actor(s)	Organizations, institutions and companies from Germany and ASEAN
Main objective(s)	Speed-up exploitation of the feasible mini hydro potential for local and regional economic development in the ASEAN region, by both the private & public sector.
Contents	<ul style="list-style-type: none"> • Promote the application of mini hydropower (MHP) in the ASEAN region through capacity building and technology transfer measures. • Enhance socio-economic development, increase rural incomes and alleviate poverty by creating an important revenue stream from MHP rural electrification. • Reduce greenhouse gas emissions from burning fossil fuels by promoting mini hydropower development to generate electricity. • Facilitate regional co-operation and networking through intra-ASEAN technology transfer measures and the knowledge exchange • Conduct a technology transfer to capitalize on existing experience and know-how in Europe and ASEAN countries to introduce standardized technology packages to MHP manufacturers and engineers. The technology transfer measures will be integrated into the implementation of actual sites projects wherever possible.
Expected results	<ul style="list-style-type: none"> • Manufacturers of MHP equipment in the ASEAN have access to standardized technology packages for their specific requirements; • MHP project stakeholders are able to acquire the required local expertise for developing MHP projects to full scale operation; • ASEAN countries implement sustainable rural electrification MHP projects supporting economic development of rural areas utilizing local expertise; • ASEAN member states implement legislation supporting the development of renewable energy as an integral element of their national energy policies.
Target area / place	ASEAN countries
Arrangement(s) for financing	BMZ commitment to the project total eligible costs is EUR 2 million.
Monitoring process and time frame	The monitoring process will be done by the Project Management Unit based in Jakarta and the time frame for project should not exceed 3 years.
Contact person	Mr. Franz-B.Marré ; BMZ; Friedrich-Ebert-Allee 40, 53113 Bonn, Germany; Tel.: +49-228-535-3404; Fax: +49-228-535-4404, Email: marre@bmz.bund.de; Dr. Weerawat Chantanakome (weerawat@aseanenergy.org); Mr. Tjarinto S. (tjarinto@aseanenergy.org), ACE, Tjaroko Jalan H.R. Rasuna Said, Blok X-2, Kav. 07-08, Kuningan, Jakarta 12950, Indonesia, Tel.: +62-21-5279332, Fax. +62-21-5279350
Link	www.mhpp.org ; www.aseanenergy.org

Geothermal Energy Initiative

Region / country	Europe / Germany
Leading actor(s)	Germany / Federal Ministry for Economic Cooperation and Development (BMZ)
Participating actor(s)	United Nations Environmental Programme (UNEP), Global Environment Facility (GEF), partner countries, Bundesanstalt für Geowissenschaften und Rohstoffe (BGR), KfW Entwicklungsbank
Main objective(s)	To improve access to energy in developing countries by promoting the adoption of geothermal energy as a clean and economically viable renewable energy source
Contents	<p>The initiative aims at removing barriers for the development of geothermal energy. It comprises two components:</p> <ul style="list-style-type: none"> • BMZ is supporting the African Rift Geothermal Development Facility (ARGeo) which is geared to promote geothermal development in Eastern Africa. KfW will manage and provide co-finance to the Geothermal Risk Guarantee Fund and the Transaction Advice Fund which are major components of ARGeo geared to reduce the geothermal development risk and to promote private sector participation. • BMZ is significantly expanding the program Geotherm (BGR), which supports partner countries worldwide in the field of resource evaluation and know how transfer and contributes to the envisaged regional Geothermal Resource Network of ARGeo.
Expected results	ARGeo shall support the Eastern African countries in reaching their target of an installed power-generation capacity based on geothermal energy. of 1000 MW by the year 2025.
Target area / place	All developing countries with a focus on East Africa
Arrangement(s) for financing	Support by German Technical and Financial Cooperation Projects (resources of BMZ), manpower input from all partner countries; co-finance through ARGeo by GEF, Italy and other donor countries
Monitoring process and time frame	ARGeo will be monitored through a steering committee. Preliminary time horizon of ARGeo: 10 years
Other relevant information	Geotherm is currently implementing projects in three countries. ARGeo is currently in its preparation phase to be finalised by the beginning of 2005. BMZ has funded through KfW the geothermal power station Olkaria II, Kenya, which is being successfully operated since the end of 2003.
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Implementation of the Strategy of the German Government on the use of Off-shore Wind Energy

Region / country	Europe / Germany
Leading actor(s)	Germany / Federal Ministry for the Environment, Nature Conservation and Nuclear Safety
Participating actor(s)	none
Main objective(s)	Meeting 15 % of German energy consumption by wind energy (compared to 1998 standards).
Contents	<ul style="list-style-type: none"> • Expansion of offshore wind energy must take a phased structure and be environmentally sound, take account of nature-protection needs and be economically viable. • Protected areas are designated in the EEZ and provisions made for locations particularly suited to wind energy facilities and approval processes under the Marine Facilities Ordinance. • Expansion of offshore wind energy must be supported by technical, environmental and nature-specific research (incl. beyond start-up phase). • To ensure application of the precautionary approach, expansion will be subject to phased implementation (initial phase: maximum 80 facilities). Implementation of subsequent phases assumes a positive and reliable outcome in terms of compatibility with the environment and with nature.
Expected results	<ul style="list-style-type: none"> • At least 500 MW installed offshore wind capacity in Germany in the initial phase (namely the first construction phase of wind farms) in the areas that are projected to be available by 2006, and in the medium-term, by 2010, even 2000 to 3000 MW power is expected from using offshore wind energy. • In the long-term, i.e. up to 2025 or 2030, profitability will be reached with about 20,000 to 25,000 MW of installed power (in the coastal waters and Exclusive Economic Zone).
Target area / place	Germany
Arrangement(s) for financing	The implementation of offshore power plants will be financed by private enterprises. Based on the German Renewable Energy Sources Act the producers of offshore-electricity are entitled to feed electricity into the grid and the utilities are obliged to buy for a fixed price.
Monitoring process and time frame	Up to 25 years duration. The German Renewable Energy Sources Act requires a report on the experiences with the market introduction of renewable energies. Project operators are obliged to start a monitoring process about the environmental effects of offshore power plants.
Other relevant information	Up to now, planning permission has been given for four offshore wind farms with a total output of over 800 MW and for some 250 facilities in the North Sea. More project applications are expected in the near future.
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Data and structured analysis on Renewable Energy markets, policies and use in developing countries

Region / country	Global
Leading actor(s)	Global Environment Facility (GEF)
Participating actor(s)	International Organizations (GEF and its Implementing Agencies) and member country governments
Main objective(s)	To supplement the structured analysis of the International Energy Agency (IEA) on its member countries with reliable and comparable data and analyses in GEF recipient countries
Contents	<ul style="list-style-type: none"> • GEF, its Implementing Agencies, and its projects provide access to data sources on IEA non-member countries. • Facilitate cooperation with other relevant global networks, such as the Global Network on Energy for Sustainable Development (hosted by UN Environmental Programme), REEEP, GVEP and WCRE.
Expected results	<ul style="list-style-type: none"> • Coordinated worldwide analyses and data on renewable energies • Create a coherent and focused information network on renewable energy
Target area / place	Worldwide
Arrangement(s) for financing	GEF provides access to studies it has funded and which contain relevant data and analyses.
Monitoring process and time frame	GEF will work with IEA to monitor and ensure the quality of the data and analyses
Contact person	Mr. Richard H. Hosier , Team Leader, Climate Change, GEF, 1818 H St., N.W. Washington DC 20433, USA, Tel.: +1-202-458-0290, Email: rhosier@theGEF.org
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Finance for developing markets for Renewable Energy in Developing Countries

Region / country	Global
Leading actor(s)	Global Environment Facility (GEF)
Participating actor(s)	International Organizations
Main objective(s)	To create, open, and transform markets for renewable energy in developing countries
Contents	GEF will commit USD 100 Million p.a. for high quality country-driven project proposals submitted through GEF's Implementing Agencies and Executing Agencies.
Expected results	Expanded use of renewable energy
Target area / place	Worldwide
Arrangement(s) for financing	GEF funds. On the basis of GEF's co-financing requirements, the commitment is expected to support renewable energy projects with a total value of USD 500-600 Million p.a., i.e. to leverage more than USD 500 Million p.a. in the process
Monitoring process and time frame	GEF's independent Monitoring & Evaluation Unit will evaluate the programs and GEF's Implementing Agencies will monitor the projects.
Contact person	Mr. Richard H. Hosier , Team Leader, Climate Change, GEF, 1818 H St., N.W. Washington DC 20433, USA, Tel.: +1-202-458-0290, Email: rhosier@theGEF.org
Link	www.gefweb.org



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Italian National Programmes on Renewables

Region / country	Europe / Italy
Leading actor(s)	Italy / Italian Ministry for the Environment and Territory (IMET)
Participating actor(s)	Regional and Local Authorities, public and private actors
Main objective(s)	Promotion of renewable energies (REs) in Italy
Contents	<ul style="list-style-type: none">• National Programme PV roofs: organized in 2 sub-programmes, aims at co-financing, in the period 2000-2004 and in collaboration with regional and local authorities, PV installations between 1-20 kWp in public or private buildings. A similar Programme has been implemented for public building of high architectural interest.• National Programme on solar thermal: includes two bids co-financed by Regional Administrations addressed to local Administrations, gas delivering companies and public and private actors for the co-financing of solar thermal installations to be integrated in buildings.• Small Islands Programme: agreements with ENEA (National institution for Energy and Environment) and ANCIM (the Association of municipalities of small islands) has been signed for the environmental interventions in small islands municipalities included in marine protected areas or national parks, that includes financing for energy saving, REs and sustainable transport.• Programme on Promotion of REs in national parks: it includes a bid for the co-financing of the promotion of REs and sustainable transport in protected areas.
Expected results	The overall impact of the measures foreseen is to contribute to meet the EU White Paper indicative national targets.
Target area / place	Italy
Arrangement(s) for financing	More than EUR 87 million have been co-financed by IMET for these Programmes, and other specific Regional funds have been allocated. With the next financial law, a new financial framework will be established.
Monitoring process and time frame	All Regional Authorities are involved in the monitoring of the implementation steps of the above Programmes.
Other relevant information	For the implementation of such Programmes Italy has utilized the financial resources coming from Carbon Tax (Ministerial Decree n°377/2000).
Contact person	Mrs. Valeria Rizzo , Director, Bilateral and Multilateral Cooperation Division, IMET, Via C. Colombo 44, 00147 Roma, Italy; Tel.: +39-06 57228125/8109; Email: pia-sld@minambiente.it
Link	www.minambiente.it

Italian Policy for a Renewable Energy Market

Region / country	Europe / Italy
Leading actor(s)	Italy / Government of Italy; Italian Ministry for the Environment and Territory (IMET); Italian Ministry for Productive Activities; Gestore della Rete di Trasmissione Nazionale SpA (GRTN); Gestore del Mercato Elettrico SpA (GME)
Participating actor(s)	Electricity producers, Regional and Local Authorities, public and private sectors, other governments.
Main objective(s)	Liberalization of electricity and gas market, according to EU Framework. Specifically, promotion of renewable energies (REs) in Italy, promotion of electricity from REs in Italian and EU market.
Contents	<ul style="list-style-type: none"> • Implementation of “Green Certificate System” under the Annex Decree n°11/99 of Legislative Decree n°79/1999 (liberalization of electricity and gas market), with a fix minimum rate of green electricity for each producer at 2% of the overall electricity production; • Further promotion of RE in electricity market (Legislative Decree n°387/2003) by increasing the minimum quota of RE electricity requested from electricity producers under “green certificates system” by 0.35% p.a., increasing the lifetime of Green Certificates to meet the market demand, and introducing a “Guarantee of Origin” for electricity produced from REs.
Expected results	Increase Italian electricity production from renewable energies to 75 TWh by 2012 (from 50 TWh today).
Target area / place	Italy and Europe
Arrangement(s) for financing	The implementation of a Green Certificates System is already in practice since 2002. Responsible for trading this commodity is GRTN/GME. In the first phase, the price of a Green Certificate was established by GRTN at 8.4 cents EUR/KWh. The second phase, after full liberalization of the electricity market, creates a self-financing mechanism for the promotion of renewable energies.
Monitoring process and time frame	A National Observatory for renewable energies and energy efficiency has been foreseen by Legislative Decree n° 387/2003.
Other relevant information	The policy measures already identified by the above mentioned legislative acts will be reinforced by 2005 with the full implementation of the Italian Law N° 120/2002 ratifying the Kyoto protocol and the Emission Trading Scheme Directive (and the incoming link Directive) that allow Certified Emission Reductions trading as additional measures towards emission reduction of greenhouse gases and RE promotion.
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Link	www.minambiente.it ; www.europa.eu.int ; www.unfccc.de

Italian Pilot Projects on Renewable Energy and Energy Efficiency

Region / country	Europe / Italy
Leading actor(s)	Italy / Italian Ministry for the Environment and Territory (IMET)
Participating actor(s)	(1) Tsinghua University (China), Politecnico di Milano, MCA Mario Cucinella Architects, China Architecture Design & Research Group; (2) Ente Parco Dolomiti Bellunesi; (3) Municipality of Specchia (Lecce/Italy).
Main objective(s)	Three representative pilot projects aim at: (1) Promotion of “green” energy-saving by building eco-design, (2) Isolated areas energy supply by RE, (3) Local basis promotion of renewables in agriculture and tourist areas.
Contents	<p>(1) “Sino-Italian Environment & Energy Building”: design and realization of 20.000 m² building located in the campus of Tsinghua University (Beijing), that will host a Sino-Italy education, training and research centre for environment protection and energy conservation.</p> <p>(2) “Fossil-free” demonstrative area in “Dolomiti Bellunesi” National Park by renewables utilization, demonstrative & promotional application of RE (particularly concerning tourist flows and infrastructures), “sustainable electrification of ‘Valle del Mis’” and “households energy supply”.</p> <p>(3) “Ecological Village” (Cardigliano agricultural & tourist complex) in Specchia by adoption of “emission zero approach” starting from planning phase of restoration activities in the entire area. Energy requirements in Cardigliano will be satisfied using a mix of renewable energies, and in particular wind generation, PV and solar thermal at low temperature.</p>
Expected results	<p>(1) Enhanced energy saving potential, REs utilization, improved energy efficiency, resource saving (construction material, water), reduced environmental impact (construction, use, materials), intelligent control during operation & maintenance, clean indoor air, durable materials, water recycling and re-use;</p> <p>(2) Demonstrative area with energy supply by solar, thermal and PV, wood as biomass, mini-hydro power, biofuels for heating, micro-cogeneration and diesel engines; (3) “Ecological village” in the agricultural and tourist complex, supplying energy services with renewables.</p>
Target area / place	Italy (“Dolomiti Bellunesi”, Cardigliano/Lecce), China (Beijing)
Arrangement(s) for financing	IMET as principal financing institution (1) within Sino-Italian Cooperation Programme for Environmental Protection, and Tsinghua University, as co-financing institution, (2) with co-financing and implementation in co-operation with “Ente Parco Dolomiti Bellunesi”, (3) implemented in co-operation with the Municipality Specchia.
Monitoring process and time frame	Technical and financial reports are regularly submitted to IMET by the partners involved in the three pilot projects.
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Italian Renewable Energy Initiatives (Type II): Mediterranean Renewable Energy Programme (MEDREP)

Region / country	Mediterranean Region
Leading actor(s)	Italy / Italian Ministry for the Environment and Territory (IMET)
Participating actor(s)	Ministry for Industry and Energy of Tunisia (TMIE), Tunisian National Agency for Renewable Energies (ANER), New & Renewable Energy Authority of Egypt (NREA), Centre for Renewable Energy Development (CDER) of Morocco, Ministry for Resources and Infrastructure of Malta, Ministry of Water and Environment of Yemen, French Agence de l'Environnement et de la Maitrise de l'Energie (ADEME), International Energy Agency (IEA), International Solar Energy Society Italy (ISES ITALY), Mediterranean Association of the National Agencies for Energy Conservation (MEDENER), Observatoire Méditerranéen de l'Energie (OME), Regional Environmental Centre for Central and Eastern Europe (REC), United Nations Environment Programme (UNEP), World Bank. Other Countries will also shortly be involved in the partnership.
Main objective(s)	<ul style="list-style-type: none"> ▪ Providing modern energy services, particularly to rural populations, ▪ Contributing to climate change mitigation by increasing the share of renewable energy technologies in the energy mix in the target region.
Contents	<ul style="list-style-type: none"> ▪ Implement renewable energy pilot projects already identified in the framework of bilateral agreements carried out by IMET in Algeria, Egypt, Morocco and Tunisia, and design new and innovative pilot projects as a "catalogue" of best practices to be replicated. ▪ Develop two financial mechanisms projects in Morocco and Tunisia for Solar Water Heating, supporting customers and investors scale up financing in the energy sector. ▪ MEDREC (Mediterranean Renewable Energy Centre, since January 2004, Tunis) as operational focal point for MEDREP activities, in particular training, information dissemination, networking and development of pilot projects, in the Southern Mediterranean Region; extend this model to Central and Eastern European countries.
Expected results	Enhanced development of a sustainable renewable energy market system in the greater Mediterranean Region, through <ul style="list-style-type: none"> ▪ tailored financial instruments and mechanisms; ▪ strengthened policy frameworks and removal of barriers to projects development; ▪ stronger private sector infrastructure, considering the positive role of 'Tradable Renewable Certificates' & 'Certified Emission Reductions'
Target area / place	Mediterranean Region
Arrangement(s) for financing	IMET has allocated EUR 8 million for renewable projects implementation. Through a Memorandum of Understanding with UNEP, IMET finances a Trust Fund for the Promotion of renewable energy in the Mediterranean Region addressed to design and implement financial mechanisms.

Projects to Reduce Emissions

Region / country	Pacific / New Zealand
Leading actor(s)	New Zealand / Ministry for the Environment: Climate Change Office
Participating actor(s)	New Zealand Ministry for Economic Development, Treasury, Energy Efficiency and Conservation Authority
Main objective(s)	<ul style="list-style-type: none"> • Additional greenhouse gas abatement through incentives under the Kyoto mechanism • Meet New Zealand's climate change objectives and renewable energy target, i.e. by 2012, an extra 30 PJ of consumer energy per year above 2000 levels from renewables. • Promote growth in the renewable energy sector and encourage business practices that are less greenhouse gas intensive.
Contents	The "Projects to Reduce Emissions" mechanism provides incentives for firms to reduce greenhouse gas emissions. The mechanism involves a closed tender with projects bidding for a share of a fixed allocation of Kyoto emission units. The smaller the ratio of emission units sought compared to emission reductions offered from the project, the greater the chance of success. Upon verified delivery of abatement, projects will receive assigned amount units (AAUs) from the New Zealand Government, or projects can receive Emission Reduction Units (ERUs) provided that projects meet the terms of Joint Implementation under the Kyoto Protocol.
Expected results	<ul style="list-style-type: none"> • Increased supply of renewable energy, • Greenhouse gas emissions below a "business-as-usual" pathway, • The first 15 recipient projects under the first tender round of the mechanism (held in late 2003) will provide 240 MW of additional generation capacity from renewable energy, and 1,484 GWh of additional electricity supply per year in 2008.
Target area / place	New Zealand
Arrangement(s) for financing	The Projects mechanism is financed by prior allocation of emission units from New Zealand's Kyoto Protocol assigned amount. Administrative costs of the mechanism are funded as part of the New Zealand Climate Change Office's normal budget allocation.
Monitoring process and time frame	All project agreements include milestone points which must be reported to the Government. Promised greenhouse gas abatement, as set out in agreements, must also be verified and reported to the Government. Monitoring will be carried out by the New Zealand Climate Change Office from first milestones through to reporting of final abatement in 2013.
Contact person	Ms. Kirsty Eames ; New Zealand Climate Change Office; PO Box 10362, Wellington, New Zealand; Tel.: +64-4-916-7600; Fax +64-4-916-7615, Email: Kirsty.Eames@mfe.govt.nz
Link	

Supporting energy sector reform in Eastern Europe

Region / country	Europe / Sweden
Leading actor(s)	Swedish Energy Agency; Swedish Environmental Protection Agency; Swedish National Forestry Board
Participating actor(s)	Public sector actors in Eastern Europe (specifically in Russia and Ukraine) and Swedish public sector actors as well as private industry (Swedish utilities or companies responsible for energy supplies, Swedish suppliers of technology equipment for the use of renewable energy).
Main objective(s)	Increase the use of renewable energy in Eastern Europe and create prerequisites for sound national institutions in different fields influencing the national energy system.
Contents	<ul style="list-style-type: none"> • co-operation between public sector actors (“twinning”), • facilitating demonstration projects using renewable energy, for example district heating with biomass.
Expected results	<ul style="list-style-type: none"> • Policy framework and good practises introduced in the relevant countries to promote sustainable and efficient energy systems. • Transparent systems introduced that estimate and consider the environmental cost of different energy sources. • Pilot projects implemented that demonstrate competitiveness from different perspectives in using different sources of renewable energy.
Target area / place	Eastern Europe
Arrangement(s) for financing	Twinning arrangements are financed by Swedish public actor (e.g. Swedish Energy Agency) or co-operating partner(s) and/or the Swedish development cooperation budget. Possible instruments for financing of demonstration projects include the “ <i>Baltic Billion Fund 2</i> ”, the Swedish development cooperation budget and/or Joint Implementation Funds.
Monitoring process and time frame	The various projects within this action will be monitored by different instruments, including regular meetings between the parties, external reviews, etc. Twinning cooperation between Swedish public authorities and other activities funded under the Swedish development cooperation budget in e.g. Russia and Ukraine will continue for at least 4 more years. The time frame for demonstration projects with funding from the Baltic Billion Fund will continue until the end of 2005.
Contact person	Ms. Anne-Charlotte Malm , Swedish International Development Cooperation Agency (Sida), SE 105 25 Stockholm, Sweden. Tel.: +46 (0) 8 6985073, Fax: +46 (0)8 6985330, Email: anne-charlotte.malm@sida.se
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Supporting the development of institutional capacity to manage rural electrification in Africa

Region / country	Africa / Uganda
Leading actor(s)	Uganda / Government of Uganda
Participating actor(s)	Swedish International Development Cooperation Agency (Sida); World Bank
Main objective(s)	To create well functioning and conducive environments, and related capacity, for commercially sustainable service delivery of rural / renewable energy.
Contents	<ul style="list-style-type: none"> • Establishment of a Rural Electrification Agency (REA), i.e. an institutional framework for rural electrification, • Establishment of subsidy award guidelines and operational procedures for the use of a Rural Electrification Fund (REF), • Bid packages for priority rural electrification projects • Training of REA staff adequately to operate the agency independently. • Compilation of a comprehensive list of potential project sponsors and developers.
Expected results	<ul style="list-style-type: none"> • An appropriate REA structure in operation with required procedures, trained staff and guidelines in place. • REF established where the World Bank, Global Environmental Facility (GEF) and other donors channel their future contributions/ funds (instead of financing individual projects) • Strengthened Institutional capacities to handle procurement and processes for private investments of priority projects.
Target area / place	Uganda
Arrangement(s) for financing	Uganda will allocate funds for the REA. Sweden will, through Sida, finance technical assistance for the project.
Monitoring process and time frame	REA will need approx. 4 years to reach the results above. The progress will be monitored through regular meetings between Uganda and Sweden.
Other relevant information	A similar process is planned in Tanzania and Zambia.
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Extension of the profile of the Renewables Obligation from 2010/11 to 2015/16

Region / country	Europe / United Kingdom
Leading actor(s)	United Kingdom / Department of Trade and Industry
Participating actor(s)	Government, industry and other interested parties
Main objective(s)	To increase the amount of renewables electricity supplied in Great Britain under the Renewables Obligation through to 15.4% in 2015/16.
Contents	Our previous commitment had a rising profile for the Obligation to 2010/11 then remained at that level (10.4%) through to March 2027. To help with longer term investments, assurance is needed that Renewables Obligation Certificates will continue to have a positive value beyond 2010.
Expected results	Through increased investor confidence, we would expect to see a faster rate of deployment of renewables projects.
Target area / place	United Kingdom
Arrangement(s) for financing	The costs of the Renewables Obligation may be passed on to consumers by electricity suppliers.
Monitoring process and time frame	Ofgem produce an annual report by 1 March each year on the implementation of the Renewables Obligation.
Contact person	Mr. John Thorpe ; Department of Trade and Industry; EIBU; Bay 108; 1 Victoria Street; London SW1H 0ET, United Kingdom
Link	

Renewable Obligation Certificates

Region / country	Europe / United Kingdom
Leading actor(s)	United Kingdom / Department of Trade and Industry
Participating actor(s)	Government Administrations in Northern Ireland and Great Britain, Energy Regulation organisations, electricity suppliers in both Great Britain and Northern Ireland, renewable generating stations.
Main objective(s)	<ul style="list-style-type: none"> • Incentivise renewables generation in Northern Ireland • Increase the proportion of electricity consumption there that is derived from renewable sources; • Ensure, through a mutual recognition of ROCs between Northern Ireland and Great Britain, a UK-wide market in ROCs that will support the operation and viability of the relatively small Northern Ireland Obligation
Contents	The mutual recognition and UK-wide trading aspects represent a co-operation between two separate regions each of which has responsibility for its own energy matters. Although the incentive is within the wider UK, its application is analogous to an arrangement between two separate states to ensure the effective operation of a market-driven renewables initiative in the smaller state.
Expected results	Attainment of a 12% target for Northern Ireland electricity consumption derived from renewable sources
Target area / place	United Kingdom
Arrangement(s) for financing	This will be a market-driven initiative that does not require public sector funding; financing will be spread across all electricity supply companies and may, in part be recovered as an additional charge on consumers; however, it is anticipated that the Obligation trading arrangements will generate excess funding that can be ploughed back into further renewables promotion/ development activities.
Monitoring process and time frame	Monitoring will be by the Energy Regulatory organisations of Northern Ireland and Great Britain and will be on an annual basis.
Other relevant information	Commencement of the new arrangements is planned for April 2005. Consultation and legislation processes have yet to be carried out. Northern Ireland is a relatively small region (annual electricity consumption 8 TWh compared with 340 TWh in Great Britain). Moreover, it is currently 98% dependent on imported fossil fuel for electricity generation and has little or no excess generating capacity.
Contact person	Mr. John Thorpe ; Deaprtment of Trade and Industry; Bay 109; 1 Victoria Street; London; SW1H 0ET, United Kingdom
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European Marine Energy Test Center

Region / country	Europe / United Kingdom
Leading actor(s)	United Kingdom / Department of Trade and Industry
Participating actor(s)	Central and Local Government and Regional funding organisations and Industry
Main objective(s)	<ul style="list-style-type: none"> • stimulate and accelerate the development of marine power devices both domestic and internationally • stimulate the supply chain industry
Contents	<ul style="list-style-type: none"> • Provide a centre of excellence in the U.K. The site is located in Stromness, Orkney
Expected results	<ul style="list-style-type: none"> • Availability of internationally recognised Standards for the testing, rating and certification of marine power generation devices (wave and tidal stream) • greater confidence in these technologies by Industry, Investors and regulatory bodies
Target area / place	United Kingdom
Arrangement(s) for financing	Funding will come from the Department of Trade and Industry and contributions will also be sought from collaborating partners. A total of six Government and Public Bodies contributed to the capital cost of building and setting up the centre. They are, Highlands and Islands Enterprise (HIE), Orkney Islands Council, DTI, Scottish Enterprise, the Carbon Trust and the Scottish Executive. HIE will also represent the interests of the Scottish Executive.
Monitoring process and time frame	To be agreed
Other relevant information	Pelamis the first full scale wave device is currently undergoing sea trials and will shortly be moved to the test centre to begin a period of extensive testing.
Contact person	Mr. John Spurgeon ; Department of Trade and Industry; 1 Victoria Street; EIBU; Bay 118; 1 Victoria Street; London SW1H 0ET, United Kingdom
Link	

Round 2 Offshore wind farm development in the UK

Region / country	Europe / United Kingdom
Leading actor(s)	United Kingdom / Department of Trade and Industry
Participating actor(s)	Departments of Environment and Transport, Crown Estate, Office For Gas and Electricity Markets.
Main objective(s)	To reach the UK's target of 10% of electricity generation from renewables by 2010
Contents	<ul style="list-style-type: none"> • To put in place the necessary regulatory framework and provide initial support for industry to reduce costs. • Mixture of Capital Grants/R&D support and market based support mechanism (the Renewable Obligation)
Expected results	The development of 6-7 GW of wind power offshore
Target area / place	United Kingdom
Arrangement(s) for financing	The Government of the UK has in place a number of schemes to support industry developing offshore wind.
Monitoring process and time frame	By 2010 the development of offshore wind energy is a key part of the UK's 10% target.
Contact person	Mr. John Overton ; Department of Trade and Industry; 115 1 Victoria Street; London; SW1H 0ET; United Kingdom; Tel: +44 (0)20 7215 6481; Email: john.overton@dti.gsi.gov.uk
Link	www.dti.gov.uk/energy/renewables/index.shtml



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Andean Programme for Energization through Renewables (APER)

Region / country	Latin America
Leading actor(s)	UN Economic Commission for Latin America and the Caribbean (ECLAC); General Secretariat of the Andean Community (CAN)
Participating actor(s)	None
Main objective(s)	<ul style="list-style-type: none"> • Steady, measurable increase in the share of renewable energies in the energy supply of areas of extreme poverty and off-grid areas • In at least 3 Andean Community countries and within a time-frame of 10 years meeting 30% of the increase in energy demand in isolated areas using renewable energy sources
Contents	<ul style="list-style-type: none"> • Mapping of the Andean areas that need energy and also have suitable conditions for the use of renewable technologies, • Establishment of a subregional information network for the promotion of renewable energy sources in the Andean Community, • Capacity building will focus on the training of both public- and private-sector professionals
Expected results	<ul style="list-style-type: none"> • Enhance capacities to identify, evaluate, generate and monitor projects that use renewable technologies on a local and regional level • Strengthen capacities to establish the best financing conditions for renewable energy projects, and the Andean countries' Public National Investment Systems
Target area / place	Andean Community (Bolivia, Colombia, Ecuador, Peru, Venezuela)
Arrangement(s) for financing	ECLAC and CAN provide human resources and will also take steps to urge multilateral financial institutions to establish "ad hoc" financing mechanisms for renewable energy projects in the Andean Community.
Monitoring process and time frame	The proposed action is scheduled and completed within a time-frame of 3 years (possible extension of additional 3 years) with the definition of short-, medium- and long-term objectives that will be monitored and verified jointly by all project actors.
Contact persons	<p>José Luis Machinea, Executive Secretary, UN ECLAC, Av. Dag Hammarskjöld s/n, Vitacura, Santiago, Chile, Tel.: +56 - 2 - 2102553, Fax: +56 - 2 - 2080252, Email: jlmaschinea@eclac.cl; Fernando Sanchez-Albavera (fsanchez@eclac.cl), Hugo Altomonte (haltomonte@eclac.cl);</p> <p>Allan Wagner Tizón, Secretary General, CAN, Av. Paseo de la República 3895, San Isidro, Lima, Peru, Tel.: +511 - 4111400, Fax: +511 - 2213329, Email: awagner@comunidadandina.org; Hector Maldonado Lira (hmaldonado@comunidadandina.org)</p>
Link	www.eclac.cl ; www.comunidadandina.org

Section B:

Actions and Commitments by Stakeholders from the Civil Society, the Private Sector and other Stakeholder Groups



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Improve livelihood and environmental quality of the rural population in Cameroon through the promotion of the use and application of renewable energy technologies

Region / country	Africa / Cameroon
Leading actor(s)	Centre for Appropriate Technology (CAT), Bamenda/Cameroon
Participating actor(s)	Government of Cameroon (Special Support Fund for Local Authorities, FEICOM; Divisional Delegations of Mines, Water Resources and Energy North West Province), Deutsche Gesellschaft für Technische Zusammenarbeit (GTZ) GmbH, Local Councils (Donga Mantung, Bui, Menchum, Boyo, Mezam, Momo and Ngokentugia Divisions of the North West Province) and Schools (J.M.B.C. Ndu, S.A.C. Kumbo, P.S.S. Wum, B.C.H.S. Belo, B.H.S. Mankon, R.E.C.I.A.S.T. Alah-Mankon and St. Mary's College Ndop).
Main objective(s)	Raise awareness, acceptance, use and application of renewable energy technologies as tools to rural lighting and energy supply.
Contents	Seminars in all 7 Divisional Head Quarters of the Province for local decision makers and other major stakeholders, launching and training of the youth in Centres for Appropriate Technology ("CAT Clubs").
Expected results	<ul style="list-style-type: none"> • Sensitization of decision makers and key stakeholders for consideration of renewable energy technologies as tools to rural lighting and energy supply in the target area; • Strengthened capacities of key community leaders (council leaders) on the identification, design, implementation and management of renewable energy technology projects; • Strengthened capacities of school curricula, teachers (14) and students (140) of "CAT Clubs" on the design, construction and delivery of renewable energy technology projects;
Target area / place	7 Divisions of the North West Province of Cameroon
Arrangement(s) for financing	The Cameroonian Special Support Fund for Local Authorities (FEICOM) supports CAT Bamenda NGO in the offering of special training to local authorities with a grant of Euro 12,000. German contributions are provided through the German Appropriate Technology Exchange-Small Scale Project Fund (SSPF). The German grant of Euro 20,000 supports the organisation of the seminars and workshops. Local councils and school authorities make further contributions for the execution of renewable energy technology projects for their communities and schools.
Monitoring process and time frame	The project is implemented in 2004 and monitored using standard monitoring and reporting procedures of German technical cooperation. Progress and seminar/workshop reports are received by CAT Bamenda NGO and the GTZ Project Liaison Office.
Contact person	Mr. Tanto Hycinth Ndikilar , Coordinator Projects/Programmes (hycinthndi@hotmail.com), Mr. Njini Victor Nkuh , Programme Director (victornas@yahoo.com), CAT Bamenda NGO, P.O. Box 996, Bamenda, Cameroon, Tel.: +237 – 336 30 72.
Link	



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CEPI's Declaration of Intent on Renewable Energy Sources

Region / country	Europe
Leading actor(s)	Confederation of European Paper Industries (CEPI)
Participating actor(s)	CEPI, its national confederations and their members (companies)
Main objective(s)	Increase the use of biomass within the paper and pulp sector and thus to reduce the overall level of emissions of greenhouse gases. The initiative aims at an increased use of biomass of a 25% average (compared with an 18% average increase in the business as usual scenario) in its on-site biomass-based primary energy consumption for on-site heat and power production by the year 2010 (compared to 2001).
Contents	The implementation of the objective of the action will be done via industry-based initiatives and complementary measures.
Expected results	<ul style="list-style-type: none"> • Extra use of 130,000 TJ of energy from biomass for heat and electricity production. • The initiative will also have a positive impact on the forest and agricultural industries and the management of waste. • An increase in the reduction of CO₂ emissions between 2001 and 2010 of nearly 3 million tons (in the business as usual scenario it would only be 1,5 million tons and via the Declaration it is 4,4 million tons), mainly achieved by the substitution of coal, natural gas and fuel oil by biomass.
Target area / place	Europe
Arrangement(s) for financing	All launching costs of the Declaration: Euro 6,000 and an annual budget of Euro 10,000 p.a. for monitoring and reporting are financed by CEPI and its members. All specific commitments under the umbrella of the Declaration are financed by CEPI members on a case-by-case basis.
Monitoring process and time frame	The Declaration is managed by the CEPI secretariat. Annually, the CEPI RES survey will be sent out to the national associations for completion. All results are the basis for further monitoring and progress reporting by VTT Technical Research Centre (Finland) up to 2010. Reports are publicly available and will be forwarded to the Commission.
Contact person	Mr. Bernard de Galember ; Confederation of European Paper Industries; Avenue Louise 250 box 80 ; 1050 Brussels, Belgium, Tel: +32-2 62749 27; Fax: +32 - 2 6468137, Email: b.degalember@cepi.org
Link	www.cepi.org



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Integrated Biomass Utilisation System (IBUS)

Region / country	Europe / Denmark
Leading actor(s)	Elsam Kraft A/S
Participating actor(s)	The Royal Veterinary and Agricultural University, Denmark; Risoe National Laboratory, Denmark; Sicco K/S, Denmark; Agrol Biotechnologies Ltd., United Kingdom; Energia Hidroelectrica de Navarra S.A., Spain
Main objective(s)	<ul style="list-style-type: none"> • Strengthening the role of organic waste to energy systems and improving sustainable waste management systems, • Providing means for energy production from biomass from surplus production of EU's agriculture and forestry, and organic waste from the industry and households, • Contributing to the EU's objective of replacing 5.75% of petrol and diesel consumption by 2010 by biofuels
Contents	Development of cost and energy effective production systems (IBUS plants) for bio ethanol and power production based on biomasses. Principally, the IBUS plants will be integrated with existing centralised coal dust-fired combined heat and power plants.
Expected results	<ul style="list-style-type: none"> • Reduction in production costs from alcohol and power production to levels that allow for a competitive utilisation of Europe's large amounts of organic waste from agriculture, forestry, industry and households, • Increased power production on the basis of a combination of biomasses poor in lignin (cereals, molasses, etc.) and biomasses rich in lignin (straw, wood chips, domestic waste, etc.).
Target area / place	Europe
Arrangement(s) for financing	The EU contributes DKK 48 millions. Elsam Kraft Kraft A/S contributes DKK 24 millions.
Monitoring process and time frame	According to EU procedure with progress report every half year. End of project: 2007.
Contact person	Mr. Charles Nielsen , R&D Manager, Elsam Kraft A/S, Overgade 45, Fredericia, Denmark, Tel.: +45-76 22 24 06, Fax +45-76 22 19 66, Email: chn@elsam.com
Link	



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Central European Renewable Energy Fund

Region / country	Europe / Poland
Leading actor(s)	Environmental Investment Partners (EIP)
Participating actor(s)	PP Investments, as Fund Manager
Main objective(s)	Profits for Fund investors and an additional 250-600 MW of renewable energy projects in Central Europe. The Fund seeks to help project sponsors finance the construction and operation stage of renewables projects and help governments meet their EU Renewables Targets. The Fund will also seek to increase the use of carbon credits.
Contents	Establish an Euro 50 million mezzanine fund for investment into renewable energy projects in the EU accession countries. The Fund will provide 10-25% of project costs, to private project developers, as medium risk loan finance with a potential equity upside. Fund investments will be subordinate to commercial bank debt but senior to common equity. The Fund will work closely with the providers of debt and equity to structure viable and cost efficient financing packages for project developers.
Expected results	The fund aims at catalyzing projects that need additional finance. Of the Euro 18 billion in commercially viable renewables projects in central Europe only a few are getting financed as there is a gap in the middle of the financing structure – the mezzanine level. This Fund will fill that gap and aims to provide its investors a fair and substantial return on investment using sustainable investment principals (the Fund seeks to provide a 12 % annual return to its investors).
Target area / place	The 8 continental EU accession countries: Poland, Slovakia, Hungary, Czech Republic, Estonia, Lithuania, Latvia, Slovenia.
Arrangement(s) for financing	Of the Euro 50 million about Euro 15 million is already committed from private investors – an additional Euro 35 million is being sought at this time.
Monitoring process and time frame	The fund raising will continue through 2004 and the fund will run for 12 years from early 2005.
Contact person	Mr. Adam de Sola Pool , Environmental Investment Partners (EIP), Ul. Piaskowa 12c, 05-510 Konstancin-Chylice, Poland; Tel.: +48 22 756 3232; Fax: +48 22 756 4919; Email: Pool@eip.com.pl
Link	www.eip.com.pl



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Cogeneration plant with bio-pellet production (Zapadnya Dvina, Tverskaya oblast, Russian Federation)

Region / country	Russian Federation
Leading actor(s)	OAO “Derevoobtabotchik” (Moscow/Russia); OOO Enteks (Moscow Russia); Ec Bioenergie Heidelberg GmbH (Heidelberg/Germany)
Participating actor(s)	Russia / Ministry of Energy, Russian Parliament, Germany / Ministry of Economics and Labour, German Energy Agency (Dena)
Main objective(s)	<ul style="list-style-type: none"> • Reduction of pollutant and CO₂ emissions from power generation in project region by 1.100 tons p.a. (CO₂), 60 tons p.a. (NO_x) and 250 tons p.a. (SO₂) by substitution of coal and fuel oil (mazut) by wood. • Increase export of wood bio-pellets into EU by 35.000 tons p.a.
Contents	<ul style="list-style-type: none"> • Installation of wood fired cogeneration plant and production of wood pellets from waste wood and saw dust for export. • Set-up of Russian-German Joint venture Company for project implementation.
Expected results	Increasing utilization of waste wood and saw dust for power generation (2 MW), local process heat (10 MW) and bio-pellet production for export (170.000 MWh p.a.) by 200.000 m ³ p.a.
Target area / place	Zapadnya Dvina, Tverskaya oblast, Russian Federation
Arrangement(s) for financing	The Joint venture Company (50:50 Russian and German Partner) is installed and fully financed, and a business plan is available. For additional investments Euro 10 Million from bank or other partner(s) are sought.
Monitoring process and time frame	Project start in 2004, construction time approx. one year, start of operation / pellet export in 2006. A great number of similar local projects is scheduled in the area. Continuous project reports will be the basis of monitoring process
Other relevant information	The project and company in Tver shall serve as a model for similar Russian biomass projects such as industrial heat, cogeneration, pellet circles, rape oil integrated circles.
Contact person	<p>Mr. Kokh Alexander Mikhailovich , General Director, OAO “Derevoobtabotchik”, Zapadaya Dvina, Tverskaya oblast, Russia; Tel.: +7 (0) 8265 22131 / 134, Fax: +7 (0) 8265 22128</p> <p>Mr. Belyi Vladimir Mikhailovich, General Director, OOO Enteks, Moscow oblast, Narofominsk region, village Selyatino, Russia; Tel./Fax +7 (0) 736 5787</p> <p>Dr.-Ing. Ulrich Kaier, Managing Director, Ec Bioenergie Heidelberg GmbH, Englerstraße 4, 69126 Heidelberg, Germany; Tel.: +49 (0) 6221 3649-10, Fax +49 (0) 6221 3649-36, Email: info@bioenergie-heidelberg.de</p>
Link	www.bioenergie-heidelberg.de , www.bioenergy-tver-russia.ru



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Renewable Energy and Energy Efficiency Partnership (REEEP)

Region / country	Europe / Austria
Leading actor(s)	Renewable Energy and Energy Efficiency Partnership (REEEP)
Participating actor(s)	Governments: UK, Austria, US, Italy, Ireland, Netherlands and Spain; Ghana, South Africa, the Philippines, Sri Lanka, Indonesia, Germany & Brazil. Businesses, NGOs and International organizations include: BP, Shell, Chinese Renewable Energy Industry Association, WWF International, European Commission, United Nations Industrial Development Organization (UNIDO), United Nations Environment Programme (UNEP). For a full list of partners see link below.
Main objective(s)	Expansion of the global market for renewable energy and energy efficiency systems and services.
Contents	<ul style="list-style-type: none"> • Removal of policy, regulatory and financial barriers to development of renewable energy and energy efficiency technologies. • Enable more effective and efficient collaboration amongst stakeholders, • Provide partners with a menu of tools and services that will assist them in achieving their own sustainable energy objectives.
Expected results	<ul style="list-style-type: none"> • Accelerated growth of the global market for sustainable energy • Increased synergies and reduced unnecessary duplications among REEEP network partners • Improved institutional capacities for triggering a step-change in renewables and energy efficiency markets
Target area / place	Global
Arrangement(s) for financing	Financial commitments have so far been made by the following Governments: the UK, Austria, the US, Ireland, Italy, Netherlands, Spain as well as the European Commission. The UK Foreign & Commonwealth Office has already committed over GBP 2 million for funding REES projects on the ground and more is planned. Further funding from other donors and partners is being sought.
Monitoring process and time frame	The International Secretariat, in consultation with regional REEEP secretariats and Programme Board, will develop a robust monitoring and evaluation process for measuring REEEP's global impact and progress towards specific objectives and outcomes. REEEP's impact is likely to be achieved over a ten-year timeframe, progress towards this will need to be measured and evaluated periodically.
Other relevant information	REEEP and provides a mechanism for translating the political commitments, including those agreed in Bonn, into concrete actions.
Contact person	Dr. Marianne Osterkorn; REEEP International Director; REEEP Secretariat; Room D1732 and D1733; Vienna International Centre Austria; Tel:+ 431 26026 3679; marianne.osterkorn@reeep.org
Link	www.reeep.org



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Large scale solar thermal power and desalination as joint development effort by North Africa, the Middle East and Europe

Region / country	Europe (EU), the Middle East (ME), North Africa (NA)
Leading actor(s)	Trans-Mediterranean Renewable Energy Cooperation (TREC)
Participating actor(s)	11 actors/5 countries from ME, 10/4 from NA, 15/4 from EU (see link)
Main objective(s)	<ul style="list-style-type: none"> • Market introduction of Concentrating Solar Power (CSP) as key technology for global climate stabilisation and secure supply of energy • Cogeneration of power and desalted water in and for MENA, economic and industrial development in MENA, clean power for EU • Initiate a EUMENA interconnecting grid as infrastructure of a free trade zone EUMENA for wind and solar electricity. • Exploit solar synergies for emerging community sustainability.
Contents	<ul style="list-style-type: none"> • Identify power and water demands, the present and expected ones until 2025 (2040), of all urban centers in MENA . • Economical ranking of power and water cogeneration projects for urban centers, based on demand study and solar radiation data. • Compile a project package sufficient for CSP market introduction. • Involve local authorities/industry in project definition and realisation. • Use solar energy co-operation in EUMENA to create the perspective of EUMENA as community for climate, energy and water security. • Concluding conference on strategy and finance (MENAREC-2).
Expected results	<ul style="list-style-type: none"> • Comprehensive urban center power and water demand register • Hit list of cost effective projects for CSP market introduction package • Identification of “Light House” projects • Proposals for financing involving European and world wide funds
Target area / place	MENA, urban centers from Mauritania to Iran
Arrangement(s) for financing	Access to MED-CSP and TRANS-CSP studies in progress at German Aerospace Center DLR (Euro 315,000), financed by the German Ministry for the Environment (BMU). Optional: concluding EUMENA-wide strategy conference for implementation; basic services offered by NERC.
Monitoring process and time frame	(1) Demand register until end of October 2004, (2) ranking of projects and pre-selection for a market introduction package by January 2005, (3) concluding public conference MENAREC-2 in April 2005. Steps 1 and 2 are preconditions of each next step. Monitoring by the DLR-BMU study.
Other relevant information	General TREC concept, “Sustainable Water and Energy Security Initiative” SWESI, MED-CSP study, TREC thematic background paper for MENAREC conference, MENAREC-Sana’a declaration: see links.
Contact persons	Dr. Malek Kabariti , TREC, c/o NERC, P.O. Box 1945, Amman 11941 Jordan, Tel.: +962-653380-41, Fax: +962-653380-43, Email: malek.kabariti@nec.gov.jo; Dr. Gerhard Knies , TREC coordinator, Stauffenbergstr. 15, 22587 Hamburg, Germany, Tel.: +49-(0)40-8663-154, Fax: +49-(0)40-8663-001, Email: Gerhard.knies@trec-eumena.org
Link	www.trec-eumena.org , (www.renewables2004.de for Sana’a declaration)



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Biomass-Based SunDiesel

Region / country	Europe / Germany
Leading actor(s)	Volkswagen AG, DaimlerChrysler AG
Participating actor(s)	none
Main objective(s)	Pushing of Biomass to Liquid (BTL) Fuels
Contents	<ul style="list-style-type: none">• Feasibility studies on synthetic fuels based on biomass in preparation of fuelling new cars with SunDiesel• First fuel filling with SunDiesel of new produced cars
Expected results	<ul style="list-style-type: none">• Reduction of greenhouse gases• Establishing biomass as a source for production of synthetic fuels• Creation and safeguarding of jobs in agriculture and industry
Target area / place	Germany / Europe / Worldwide
Arrangement(s) for financing	Fully financed by leading partners.
Monitoring process and time frame	First fuelling of VW's and DC's diesel-cars with SunDiesel as soon as required quality is available. Expected start: 2006
Other relevant information	VW and DC follow a common fuel strategy
Contact persons	<p>Dr. Wolfgang Steiger, Volkswagen AG, Letter box 1778, 38436 Wolfsburg, Germany, Tel.: +49 (0) 5361 – 925377, Fax: +49 (0) 5361 – 928923, Email: wolfgang.steiger@volkswagen.de</p> <p>Dr. Hans-Otto Herrmann, DaimlerChrysler AG, RBP/C, HPC G 203, 70546 Stuttgart, Germany, Tel.: +49 (0) 711 – 17 20894; Fax: +49 (0) 711 – 17 59799; Email: Hans-Otto.Herrmann@daimlerchrysler.com</p>
Link	www.volkswagen.de ; www.daimlerchrysler.com