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Monitoring and Evaluation of the RES directives implementation in EU27 and policy recommendations for 2020

RES2020

The project intends to analyse the present situation regarding the use of renewable energy sources within the EU. It aims to define future options for policies and measures, calculate concrete targets for the contribution that can be achieved by the implementation of the various options available and examine the implications of achieving these targets for the European economy. All renewable energy options are being examined, with systems modelling conducted using TIMES. This modelling system develops an aggregate parameter in order to quantify the impact of a wide range of support schemes. By combining recommendations of optimal mixes, the project hopes to set out recommendations for policy measures.

Results

- Data was collected on the potential of, and contributions from, the different sectors, i.e. renewable electricity, renewable heating & cooling and biofuels. This required a particularly close look at the biomass/biofuels potential;
- Extended templates were created for the TIMES model, including enhancements for RES-E and bioenergy;
- Scenarios and targets for 2020 and beyond under different policy options and framework conditions are being modelled
- 27 RES policy reviews were developed in a reference document, available on the project website.
- Models and outcomes should be reviewed by external experts and the EnR renewable energy working group

Lesson learned

- The definition of the potential depends very much on the assumptions used especially in the case of bioenergy.
- The PanEuropean model run is essential in order to study the achievement of the the RES targets for the member states.

Partners and coordinator

Centre for Renewable Energy Sources [1]	Greece
European Renewable Energy Council [2]	Belgium

Danmarks Tekniske Universitet / Technical University of Denmark [3]	Denmark
Tallinn University of Technology [4]	Estonia
VTT Technical Research Centre of Finland [5]	Finland
Association pour la Recherche et le Développement des Méthodes et Processus Industriels [6]	France
Universität Stuttgart [7]	Germany
National Technical University of Athens [8]	Greece
Consiglio Nazionale delle Ricerche [9]	Italy
Politecnico di Torino [10]	Italy
Energy research Centre of the Netherlands [11]	Netherlands
Centrul pentru Promovarea Energiei Curate si Eficiente in Romania [12]	Romania
Centro de Investigaciones Energeticas, Medioambientales y Tecnologicas [13]	Spain
Chalmers Tekniska Högskola AB [14]	Sweden

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Budget

Overall budget: 1.309.938,00 € (EU contribution: 50,00 %)

Key documents

- Project Slides [15]
  PPT 364 KB
- Summary Report [16]
  PDF 257.52 KB
- Modelling Distributed Generation [17]
  PDF 782.25 KB
- Biofuels and Renewable Heating - Technology [18]
  PDF 482.21 KB
- Scenarios and Policy Proposals [19]

PDF 115.54 KB

- Synthesis Report [20]
  PDF 329.5 KB
- Analysis of the Pan-European TIMES result [21]
  PDF 1.85 MB
- RES Policy and Potential [22]
  PDF 4 MB
- Policy Recommendations [23]
  PDF 4.06 MB
- The Pan European Times model [24]
  PDF 254.98 KB

In brief

Sector: Electricity production

Duration: *01/10/2006* to *31/03/2009*

Contract number: EISAS/EIE/06/170/2006

Website: http://www.res2020.eu

Tags:

electricity

Related projects

- [E-TRACK [25]] A European Tracking System for Electricity
- [E-TRACK II [26]] A European Tracking system for electricity (E-TRACK) Phase II
- [OPTRES [27]] Assessment and optimisation of renewable support schemes in the European...
- [BioGrace-II [28]] Bioenergy Greenhouse gas emissions: Align Calculations in Europe
- [RES-E REGIONS [29]] Boosting green electricity in 11 European regions
- [BETTER [30]] Bringing Europe and Third countries closer together through renewable...
- [CLEAN-E [31]] Clean Energy Network for Europe
- [RES MARKET-PLACES [32]] Creating Renewable Energy Market-Places for Investors and Regional Actors...
- [PV PARITY [33]] Definition of grid-parity for photovoltaics and development of measures to...
- [FUTURES-E [34]] Deriving a future European Policy for Renewable Electricity
- [GEOELEC [35]] Develop Geothermal Electricity in Europe to have a renewable energy mix
- [DG-GRID [36]] Enhancement of sustainable electricity supply through improvements of the...
- [EUROBSERV'ER [37]] Eurobserv'er Barometer (2008-2010)
- [ELEP [38]] European Local Electricity Production
- [STORE [39]] Facilitating energy storage to allow high penetration of intermittent...
- [GREENNET-EU27 [40]] Guiding a Least Cost Grid Integration of RES-Electricity in an extended...
- [GRIDTECH [41]] Impact Assessment of New Technologies to Foster RES-Electricity...

- [IMPROGRES [42]] Improvement of the Social Optimal Outcome of Market Integration of DG/RES...
- [INTER - PARES [43]] INnovative Tools for Energy Regulations of Provinces Associations on...
- [MASSIG [44]] Market Access for Smaller Size Intelligent Electricity Generation
- [DIA-CORE [45]] Policy Dialogue on the assessment and convergence of RES policy in EU...
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- [PV POLICY GROUP [47]] PV POLICY GROUP
- [PV GRID [48]] Reducing barriers hampering large-scale integration of PV electricity into...
- [RE-DISS [49]] Reliable Disclosure Systems for Europe
- [RE-DISS II [50]] Reliable Disclosure Systems for Europe – Phase II
- [RESPOND [51]] Renewable Electricity Supply interactions with conventional Power...
- [REALISE FORUM [52]] Renewable energy and liberalisation in selected electricity markets Forum
- [BESTGRID [53]] Renewables-Grid and Public Acceptance
- [GREEN LODGES [54]] RES & micro CHP in RURAL LODGES
- [SHERPA [55]] Small Hydro Energy Efficient Promotion Campaign Action
- [TRADEWIND [56]] Wind Power Integration and Exchange in the Trans-European Power Markets

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Links
[1] https://ec.europa.eu/energy/intelligent/projects/en/partners/cres
[2] https://ec.europa.eu/energy/intelligent/projects/en/partners/european-renewable-energy-council-1
[3] https://ec.europa.eu/energy/intelligent/projects/en/partners/dtu
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