

NATIONAL RENEWABLE ENERGY ACTION PLANS (NREAPs)



PAVING THE WAY FOR 2020

Guidelines and supporting document
for the design phase of the NREAPs



REPAP
2020

Renewable Energy Policy Action Paving
the Way towards 2020

Supported by

Intelligent Energy  Europe

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Brochure by

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EREC - European Renewable Energy Council

Project Partners



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Welcome

In recent years, European policy-makers have had to face several challenges in energy policy: the environmental and economic implications of climate change are inevitable and Europe's energy security is at stake due to a high dependency on energy imports. Moreover, the current financial and economic crisis is compromising economic growth and employment.

Taking these developments into consideration, the Directive on the promotion of the use of energy from renewable sources (2009/28/EC) constitutes a historic landmark in European legislation. With the overall goal of 20% of the EU-27 final energy consumption coming from renewable energy sources in 2020, the directive gives the needed political support to renewable energy markets which have an enormous potential for economic growth and job creation.

As part of their efforts, the EU-27 Member States are obliged by the Directive to notify a National Renewable Energy Action Plan (NREAP) based on a template provided by the European Commission. Only with ambitious and consistent national action plans will the European Union be able to accomplish the overall 2020 target.

The REPAP2020 project is seeking to assist Member States in drafting their national action plans. EUFORES as Parliamentary network and EREC as RES-industry umbrella association combine the efforts of national and European Parliamentarians and the European RES-industry in order to facilitate the implementation of the RES-Directive. With this project, we believe that we can contribute to a sustainable European energy future.



Mechtild Rothe
President of EUFORES

*Former Vice-President
and Member of the European Parliament*



Claude Turmes
Vice-President of EUFORES

Member of the European Parliament



Fiona Hall
Vice-President of EUFORES

Member of the European Parliament

The REPAP2020 project

REPAP2020 aims to facilitate the implementation of the RES Directive on a national level. As its overarching goal, the project will create a network between policy-makers from national administrations, Members of the EU-27 national parliaments and the European Parliament as well as the RES-industry to exchange knowledge and to communicate good practice examples in order to achieve good and coherent National Renewable Energy Action Plans (NREAPs).

Before the notification of the NREAPs to the European Commission in June 2010, the REPAP2020 project will accompany the drafting process by offering advice on the design of the NREAPs to the relevant authorities. Furthermore, REPAP2020 will empower national industry associations to come up with their individual national RES industry roadmaps which aim to support the development of the NREAPs. In a second phase, the project will evaluate the NREAPs and disseminate the results in order to facilitate a constant feedback and learning process.



On a more practical note, the REPAP2020 project comprises among other activities:

- **Organisation of workshops** to give advice and spread good policy examples to national NREAP authors and to relevant experts on the European and national level.
- **Establishing a competence centre** in order to support the drafting process and to evaluate the NREAPs through scientific partners of the project.
- **Creating networks** between core stakeholders from **RES industry, Parliamentarians (both EU and national Parliaments) and National Administrations.**

REPAP
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The RES-Directive

The Renewable Energy Directive sets the goal of increasing the share of renewable energy sources in the European final energy consumption to 20% by 2020, from around 8.5% in 2005, by means of binding national targets. In addition to the binding national target which was agreed by each Member State, all countries committed to a 10% renewable energy transport target. Member States will have to clearly set out how they will meet those targets in the NREAPs.

The EU Commission will have full power to monitor these plans and launch infringement procedures against Member States which do not implement the directive satisfactorily.

The full text of the directive can be accessed here: <http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2009:140:0016:0062:EN:PDF>

The European Commission has established an online portal to follow up the RES Directive – the so called Transparency Platform: http://ec.europa.eu/energy/renewables/transparency_platform_en.htm

Key dates:

- **30th June 2009:** the European Commission published a template for the NREAPs
- **December 2009:** Member States “forecast documents” on the scope of making or receiving transfers of renewable energy under the cooperation mechanisms
- **30th June 2010:** the NREAPs have to be submitted to the European Commission
- **25th December 2010:** completion of the implementation of the Directive by the EU Member States
- **2011:** first biannual report of each Member State
- **2012:** first biannual report of the European Commission



The importance and role of the NREAP-Template

Article 4(1) of Directive 2009/28/EC requires the Commission to adopt a template for the National Renewable Energy Action Plans by 30 June 2009.

The objectives of the template are to guide and help Member States in the elaboration of their National Renewable Energy Action Plan. The template is also aimed to ensure completeness of these Action Plans. Moreover a common format makes it possible to compare plans at EU level. The individual National Renewable Energy Action Plans can be compared to each other; can be easily aggregated to form the overall EU renewable energy strategy and will be a starting point for the biannual national reports on the progress made. The use of the template will also help the Commission in its task to follow-up the implementation of the Directive.

Adopted by Commission Decision C(2009)5174-1 of 30 June 2009, the template is covering all issues in Directive 2009/28/EC, as required in its Annex VI. It is a 40-page document with explanatory notes on how to prepare the National Renewable Energy Action Plan and with concrete questions on the implementation of the different provisions of the Directive.

The use of the template is obligatory, which means that each national action plan has to *follow the structure of the template* and *give answers to each of the questions* it contains.



The National Renewable Energy Action Plans following these formal requirements have to explain how the Member State will reach its national overall target, as defined in Annex I A of the Directive, for the share of energy from renewable sources in 2020. For this purpose, Member States have to set national sectoral renewable energy targets in electricity, heating-cooling and in transport, in this last sector at a minimum level of 10% of energy used in transport. For this purpose, the national final energy consumption also has to be estimated up to 2020, for each year. The description of current and planned measures has to be detailed, explaining each question asked in the template: for example include support schemes, where Member States might choose between a wide range of options; or administrative procedures, planning, electricity connection or biomass policy where national administrative, legal and geographical circumstances might limit possible options.

The National Renewable Energy Action Plans should also include information on the impacts of the strategy, on the expected contribution of each technology and resource and on the preparation and follow up of the NREAP.

After the notification of the National Renewable Energy Action Plans on 30 June 2010, the European Commission will evaluate each individual national action plan. It will make sure that the plan is consistent with the overall national renewable energy target by 2020 and with all the provisions of the Directive, both in content and format. The consistency and credibility of each plan will be assessed and in case of concerns, the Commission might issue recommendations or use other instruments of enforcing Community legislation.

For clarifications needed on the template for the National Renewable Energy Action Plans, the Commission has created a functional mailbox: EC-NREAP@ec.europa.eu



Where to get advice at the European level

REPAP consulting contacts

GENERAL ADVICE

EREC

Christine Lins
Tel: +32 2 5461933
E-mail: lins@erec.org

EUFORES

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Tel: +32 2 5461948
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SCIENTIFIC ADVICE

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Energy Economics Group (EEG) University of Vienna

Gustav Resch
Tel: +43 1 5880237354
E-Mail: resch@mail.eeg.tuwien.ac.at

European Commission

The Commission has created a special mailbox for NREAP-related questions:
EC-NREAP@ec.europa.eu

European Associations

European Association of Renewable Energy
Research Centres (EUREC):

www.eurec.be

European Bioethanol Fuel Association (EBIO):

www.ebio.org

European Biomass Association (AEBIOM):

www.aebiom.org

European Biomass Industry Association (EUBIA):

www.eubia.org

European Geothermal Energy Council (EGEC):

www.egec.org

European Photovoltaic Association (EPIA):

www.epia.org

European Renewable Energy Council (EREC):

www.erec.org

European Renewable Energies Federation (EREF):

www.eref-europe.org

European Small Hydropower Association (ESHA):

www.esha.be

European Solar Thermal Electricity Association
(ESTELA):

www.estelasolar.eu

European Solar Thermal Industry Federation
(ESTIF):

www.estif.org

European Wind Energy Association (EWEA):

www.ewea.org

European Ocean Energy Association (EU-OEA):

www.eu-oea.com

European Biodiesel Board (EBB):

www.ebb-eu.org

European Biogas Association (EBA):

www.european-biogas.eu/eba

PV-Cycle:

www.pvcycle.org

Scientific Institutes

Wuppertal Institute for Climate, Environment and
Energy:

www.wupperinst.org

Ecofys:

www.ecofys.com

Lithuanian Energy Institute:

www.lei.lt

NGOs

Greenpeace:

www.greenpeace.org/international

WWF:

www.panda.org/epo

Friends of the Earth:

www.foeeurope.org

Institute for European Environmental Policy:

www.ieep.eu

Where to get advice at national level

In ten European Member States the RES industry is represented by an umbrella organisation. Most of these associations are also partners of the REPAP2020 project. Please find below the contact information of all national RES-umbrella associations. More contacts of RES- related stakeholders (national sectoral associations, energy agencies, research institutes) for countries with and without national RES umbrella organisations can be found on www.repap2020.eu.

National RES Umbrella Associations

BELGIUM

Flemish Region:

Organizatie voor Duurzame Energie
www.ode.be
Tel : +32 11 665091
Fax: +32 11 640591
E-Mail: info@ode.be

Walloon and Brussels Regions:

EDORA - Federation de l'Energie Renouvelable et Alternative
www.edora.be
Tel : +32 2 2179682
Fax : +32 2 2192151
E-Mail: nlaumont@edora.be

FRANCE

SER - Syndicat des Energies Renouvelables
www.enr.fr
Tel : +33 1 48780560
Fax: +33 1 48780907
E-Mail: damien.mathon@enr.fr

GERMANY

BEE - Bundesverband Erneuerbare Energie
www.bee-ev.de
Tel: +49 30 27581700
Fax: +49 30 275817020
E-Mail: rainer.hinrichs@bee-ev.de

ITALY

APER - Associazione Produttori Energia da Fonti Rinnovabili
www.aper.it/newsite
Tel : +39 2 76319199
Fax: +39 2 76397608
E-Mail: pigni@aper.it

POLAND

PIGEO - Polish Economic Chamber of Renewable Energy
www.pigeo.org.pl
tel.: +48 22 5484999
fax: +48 22 5484998
E-Mail: michal.cwil@pigeo.pl

PORTUGAL

APREN - Associação Portuguesa de Energias Renováveis
www.apren.pt
Tel: +351 213 151621
Fax: +351 213 151622
E-Mail: sadacosta@apren.pt

SPAIN

APPA - Asociación de Productores de Energías Renovables
www.appa.es
Tel : +34 902 106256
Fax: +34 91 3070350
E-Mail: mbechberger@appa.es

SWEDEN

SERO - Sveriges Energiföreningars Riksorganisation
www.sero.se
Tel: +46 221 82422
Fax: +46 221 825 22
E-Mail: goran.bryntse@falubo.se

UNITED KINGDOM

REA - Renewable Energy Association
<http://www.r-e-a.net>
Tel : +44 20 77471830
Fax : +44 20 79252715
E-Mail: ghartnell@r-e-a.net

Important related studies and projects

In the following pages you will find studies and projects which can serve as input for the NREAPs. First, some general background information is given, while in the second part, the studies are following the structure of the European Commission template.

Comprehensive list on RES-Studies - European Commission:

http://ec.europa.eu/energy/renewables/studies/index_en.htm

<http://res-legal.eu/en>

This website gives an overview and compares current legislation on electricity in all 27 Members States (promotion schemes, grid access, contact details for further information). It also gives extensive details in English about each national legislative framework.

Monitoring and Evaluation of the RES directives implementation in EU27 and policy recommendations for 2020 (2009).

EU 27 Synthesis Report of the RES2020 project:
http://www.res2020.eu/files/fs_inferior01_h_files/pdf/deliver/RES2020_Synthesis-Report.pdf

Deploying Renewables, Principles for Effective Policies. Executive Summary (2008).

International Energy Agency, OECD Publishing:
<http://www.iea.org/Textbase/npsum/DeployRenew2008SUM.pdf>



Renewable Energy Technology Roadmap: 20% by 2020 (2008). EREC - European Renewable Energy Council. This study shows at European level the contribution of each technology in meeting the renewable energy target of 20% by 2020:
http://www.erec.org/fileadmin/erec_docs/Documents/Publications/Renewable_Energy_Technology_Roadmap.pdf

The following studies and projects will help to fill certain chapters of the template:

ADMINISTRATIVE BARRIERS

(4.2.1 in template)

The **Windbarriers project** aims to gather up to date and comprehensive information on the administrative and grid access barriers that obstruct the development of wind energy in Europe:

www.windbarriers.eu

PV-Legal Project: The project aims to enhance PV legal-administrative procedures by involving its crucial administrative actors in 12 EU countries: Bulgaria, Czech Republic, France, Germany, Greece, Italy, Poland, Portugal, Slovenia, Spain, The Netherlands and United Kingdom. The project website will be published soon; project coordinator is BSW-Solar:

www.solarwirtschaft.de

BUILDINGS

(4.2.3 in template)

Comprehensive overview of projects on renewable energy in buildings:

http://ec.europa.eu/energy/intelligent/library/doc/ka_reports/buildings09_en.pdf

CERTIFICATION OF INSTALLERS

(4.2.5 in template)

The Qualicert Project is aiming for common quality certification and accreditation for installers of small scale renewable energy sources:

www.quali-cert.eu

DISTRICT HEATING AND COOLING INFRASTRUCTURE DEVELOPMENT

(4.2.9 in template)

ESTTP Project (2006): supporting the development of a European Solar Thermal Technology Roadmap:

http://esttp.org/cms/front_content.php?idcat=94

ELECTRICITY

(4.3 in template)

Comprehensive overview of projects on electricity from renewable energy:

http://ec.europa.eu/energy/intelligent/library/doc/ka_reports/electricity08_en.pdf

Assessment and optimisation of renewable energy support schemes in the European electricity market (2007). OPT-RES Final Project Report:

http://ec.europa.eu/energy/renewables/studies/doc/renewables/2007_02_optres.pdf

Promoting Grid-Related Incentives for Large-Scale RES-E Integration into the Different European Electricity Systems.(2009). GreenNet Incentives

Project Report:

http://greenet.i-generation.at/files/D15_Report_SynthesisOfResults.pdf

Futures-e Project: deriving a Future European Policy for Renewable Electricity: A balanced scenario to meet Europe's RE target:

www.futures-e.org

HEATING AND COOLING

(4.4 in template)

K4RES-H: a project on key issues for Renewable Heat in Europe

www.erec.org/projects/finalised-projects/k4-res-h.html

Solar Combi+: a project on the identification of most promising markets and promotion of standardised system configurations for the market entry of small scale combined solar heating & cooling application:

www.solarcombiplus.eu/index_en

RES-H Policy: A project on policy development for improving RES-H/C penetration in European Member States:

www.res-h-policy.eu

TRANSPORT

(4.5 in template)

Comprehensive Overview of projects on biofuels:

http://ec.europa.eu/energy/intelligent/library/doc/ka_reports/biofuels08_en.pdf

The **OPTFUEL** project aims to demonstrate of the production chain of synthetic fuels from biomass (BtL) and the potential of pollutants emissions reduction in vehicle applications:

www.optfuel.eu

BIOMASS

(4.6 in template)

European Best Practice Report- Comparative assessment of national bioenergy strategies & biomass action plans in 12 EU countries. (2009).

BapDriver Project Report:

www.bapdriver.org/doku.php/best_practice

Sustainability Criteria and Certification Systems for Biomass Production (2008).

Biomass Technology Group:

http://ec.europa.eu/energy/renewables/bioenergy/doc/sustainability_criteria_and_certification_systems.pdf

COSTS AND BENEFITS

(5.3. in template)

Employment and growth impacts of sustainable energies in the European Union (April 2009).

Employ-RES Project Final Report. This report shows how many jobs can be created at national level through attainment of the renewable energy target:

http://ec.europa.eu/energy/renewables/studies/doc/renewables/2009_employ_res_report.pdf



Upcoming activities of REPAP2020 relevant for NREAP Authors

REPAP2020 is aiming to bring all relevant stakeholders in the development of the NREAPs together and offer advice in order to accomplish the best possible result. This will be achieved with several formats and activities. Please find below the most relevant activities for the NREAP authors. For an exhaustive overview please refer to: www.repap2020.eu

National RES industry roadmaps

The national RES-umbrella associations and the scientific partners of the REPAP2020 project are going to develop 27 national RES industry roadmaps which are going to outline how national RES actors foresee the development of the different sectors (electricity, heating & cooling, transport) in the different Member States. In a second step, these 27 roadmaps will be compiled to an EU RES industry roadmap. Each National Roadmap will highlight:

- RES situation in the Member State
- RES potential
- RES targets for electricity, heating & cooling & transport by 2020
- Necessary framework conditions and support measures in each sector to reach the targets
- Outline of national RES industry

All roadmaps will be published on the REPAP2020 project website.



NREAP-author workshops

Four workshops dedicated to the national NREAP authors will be held in Brussels. Two will take place before the NREAPs are submitted to the European Commission and two after the notification. The workshops will be closed meetings for the civil servants and other consulting experts writing the NREAPs. They will be directly invited by EUFORES. For more information and dates please consult the project website.

Bilateral national meetings

Partners of the REPAP2020 project will offer advice to the Member States in bilateral meetings with officials related to the NREAPs. These meetings will take place in the Member States and officials will be approached in due time for specific arrangements.



The European Forum for Renewable Energy Sources

“European Parliamentarians for a Sustainable Energy Future”



Who is EUFORES and what do we want?

EUFORES...

- ...is a European cross-party parliamentary network with Members of the European Parliament and the EU27 national Parliaments.
- ...is supported by a wide range of non-parliamentary members.
- ...was founded in 1995 as an independent, non-profit organisation and is a leading promoter of renewable energy and energy efficiency.
- ...aims to support the development of both fields in the European Union and to transform best practice into coherent policies.
- ...recognises the importance of linking renewable energy and energy efficiency as key solutions for a sustainable development.
- ...seeks the exchange of information between European and national Parliamentarians, as well as Parliamentarians and relevant stakeholders.

What does EUFORES do?

EUFORES...

- ...enlarges its comprehensive cross-party parliamentary network, connecting members of the European and EU27 national parliaments working on sustainable energy issues.
- ...integrates key actors from science, industry and civil society into its network, creating new channels of communication.
- ...organises a variety of events (e. g. Inter-Parliamentary Meetings, parliamentary workshops, MEP breakfasts, advisory committee meetings) offering opportunities to exchange views.
- ...provides political and scientific advice, disseminating most relevant information.
- ...facilitates the exchange of views on EU legislation, supporting legislative proposals and initiatives.
- ...manages a diversity of projects, supporting the national implementation of EU legislation.

For more information please visit: www.eufores.org



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