

N.R.E.A.P.

*The National Renewable Energy Action Plan*

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Meitheal Na Gaoithe  
Workshop

Kilkenny  
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- What is the National Renewable Energy Action Plan?
- NREAP Template
- Flexibility Measures
- Process & Management
- Consultation and Milestones

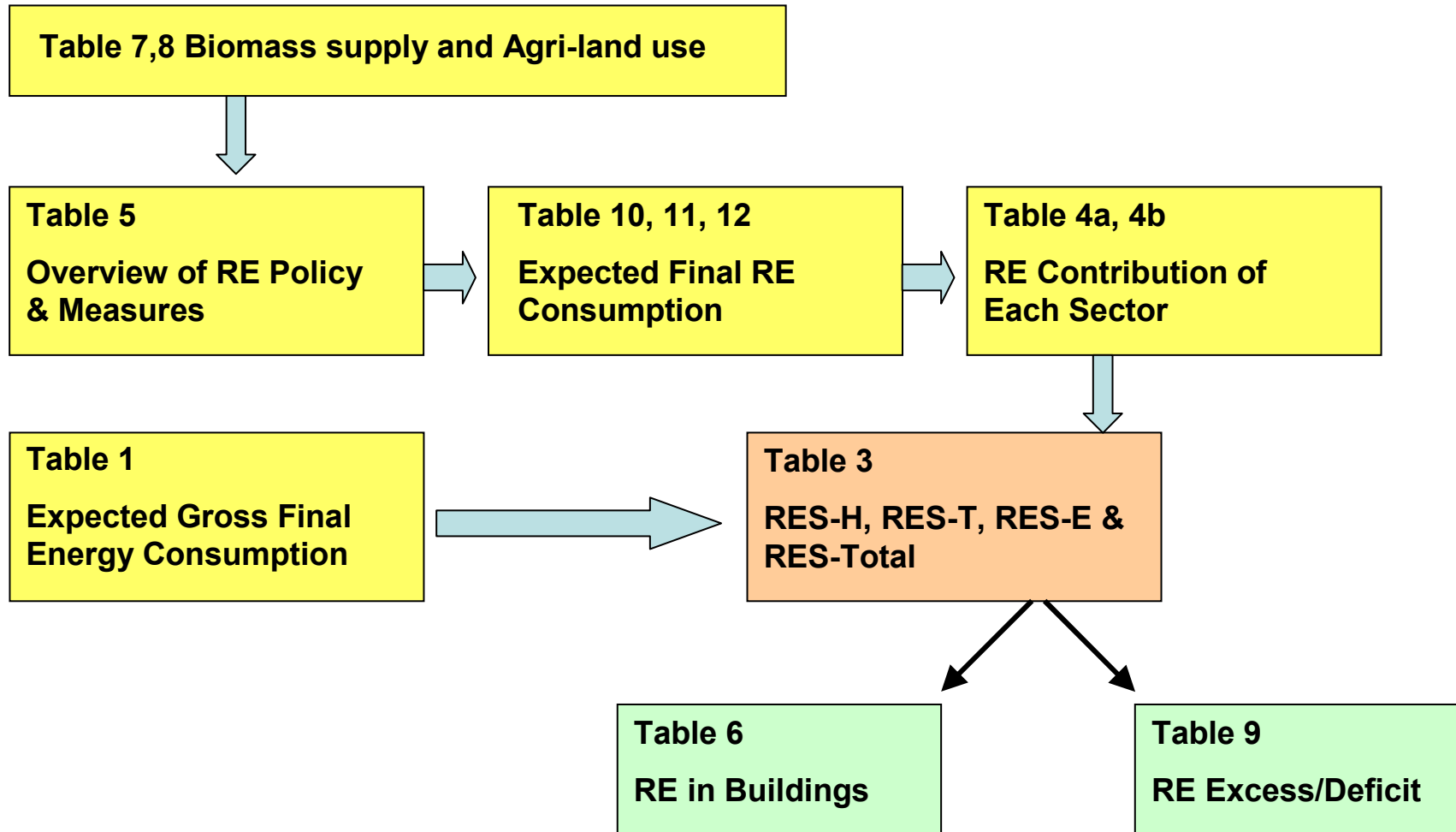
- The Renewables Directive 2009/28/EC requires each Member State to produce an action plan showing how they intend meet their renewable obligations.
- For Ireland these binding 2020 targets are:
  - Overall share of RE across final consumption in Heat, Transport & Electricity of 16% (RES 16%)
  - 10% consumption of Renewables in the transport sector (RES-T 10%)
- The White Paper and Subsequent Announcements:
  - RES-T of 10%
  - RES-H of 12%
  - RES-E of 33% (increased to 40% in the carbon budget)
- White Paper Targets not compliant with 16% RES
  - December's forecast statement show overall compliance
- EU Commission Provided a prescriptive template for Action Plans

Table 3 from the December Forecast Document

	<i>2015</i>	<i>2016</i>	<i>2017</i>	<i>2018</i>	<i>2019</i>	<i>2020</i>
RES-H	8%	9%	10%	10%	11%	12%
RES-E	34%	36%	38%	40%	42%	44%
RES-T	7%	7%	9%	9%	10%	11%
<b>Overall RES</b>	<b>12%</b>	<b>12%</b>	<b>13%</b>	<b>14%</b>	<b>15%</b>	<b>16%</b>

- Highly Prescriptive- European Commission
- Can be divided into two broad categories
  - Sectoral Projections
    - Estimates of both energy consumption and how Ireland will progress towards the 2020 Renewable targets
  - Narrative Requirements
    - Section 4 – ‘100 questions’
    - Planning, Grid, Coordination of Resources, Technical Standards, Information Provisions etc
- Department of Communications, Energy and Natural Resources coordinating role
- Narrative Requirements fulfilled through drafting of relevant subsections by appropriate bodies;
  - Initial consultation through the REDG ongoing at present
- Projection of Demand and Renewable Penetration based on SEAI modeling
  - Finalised numbers expected by 20<sup>th</sup> of May 2010

Table Number	Data or List	Content
Table 1	Data	Projections of Energy Consumption
Table 2	List	EU Targets from Directive
Table 3	Data	RES-H,T,E
Table 4a, 4b	Data	RES (ktoe) by mode & Overall to 2020
Table 5	List	RE Policies & Measures
Table 6	Data	Share of RE in Building Sector
Table 7,8	Data	Biomass supply & Agri-land use.
Table 9	Data	Excess/Deficit of RES
Table 10,11,12	Data	Contribution of each technology type towards RES figure.
Table 13	List	Optional assessment of impacts, costs and benefits



- **Statistical Transfers** between Member States
  - Bi-lateral agreements.
  - Trading Member State puts out a ‘call’.
- **Joint Projects**
  - Between Member States:
    - Total RE produced from support project divided between those states.
  - Member State & 3rd Non-EU Country:
    - Physical Electricity Exported to EU counted towards target.

- Forecast Document Submitted to EU Commission in December
  - Showed Ireland meeting RES obligations
- Section 4 Narrative circulated to Renewable Energy Development Group
  - Planning
  - Grid connection
  - System Operation
- Modelling Ongoing to Produce numbers before last week in May
  - Energy Consumption as in December's Forecast Statement
  - Bio Energy Analysis Model (BEAM) and Electricity model outputs
- Public Consultation through Department Website
- Submission of the Final document to the EU Commission by **June 30th**

Section	Issued	Order	Subject	Deadline
4.1	29/04/2010	16	Overview of all policies and measures	04/05/2010
4.2.1	08/04/2010	8	Administrative procedures and spatial planning	30/04/2010
4.2.2	24/03/2010	3	Technical specifications for supported renewables	26/04/2010
4.2.3	23/03/2010	2	Buildings	23/04/2010
4.2.4	26/03/2010	4	Information provisions for renewable energy	26/04/2010
4.2.5	30/03/2010	5	Certification of installers	30/04/2010
4.2.6	31/03/2010	6	Electricity infrastructure development	30/04/2010
4.2.7	01/04/2010	7	Electricity network operation	30/04/2010
4.2.8	18/03/2010	1	Biogas integration into the natural gas network	23/04/2010
4.2.9	28/04/2010	11	District heating and cooling infrastructure development	04/05/2010
4.2.10	28/04/2010	12	Biofuels and other bioliquids – sustainability criteria and compliance	04/05/2010
4.3	27/04/2010	9	Support schemes RES-E	04/05/2010
4.4	28/04/2010	13	Support schemes RES-H	04/05/2010
4.5	27/04/2010	10	Support schemes RES-T	04/05/2010
4.6.1	28/04/2010	14	Biomass supply	04/05/2010
4.6.2	28/04/2010	15	Measures to increase biomass availability	04/05/2010
4.7	n/a		Statistical Transfer and Joint Projects	n/a
4.7.1	06/05/2010	17	<b>Procedural aspects</b>	12/05/2010
4.7.2	06/05/2010	17	<b>Estimated excess</b>	12/05/2010
4.7.4	06/05/2010	17	<b>Estimated deficit to be satisfied from external sources</b>	12/05/2010

Topic	Responsible Bodies		Measures in Place/Planned
Admin Procedures/Spatial Planning	CER	DEHLG	Connection Arrangements
Tech Specs	DETE/NSAI	SEAI	Product Criteria Lists
Building Regs	DEHLG		2008 Regulations
Information Provisions	SEAI		REIO Programme
Certification of Installers	SEAI	CER	Installer Lists, RECI, ECSSA
Electrical Infrastructure Development	EirGrid		Grid25
Electricity Network Operation	ESBN		Connection Policy
Biogas Injection to Gas Grid	BG	SEAI	Policy and Research
District Heating Development	SEAI	DEHLG	Demonstration
Biofuels Sustainability Criteria	DCENR		

- NREAP a conglomeration of existing strategies, mechanisms and measures
- Highlights aims and teases out barriers
- RES-E
  - Potential domestically to more than meet 40%+
  - Mechanisms, policy and support in place
- RES-T
  - Mechanisms and policy in place to facilitate target
  - Electric vehicles
- RES-H
  - ?
  - New instruments needed
  - Potential of AD, biogas
    - Win, win, win, win – waste, Directives, energy, local employment

## Go raibh maith agaibh.

Some links:

[Renewables Directive](#)  
[December Forecast](#)  
[NREAP Template](#)

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