

Design and impact of a harmonised policy for renewable electricity in Europe



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Core objective of the project

- ◀ Look more closely beyond 2020 by *designing & evaluating feasible pathways of a harmonised European policy framework* to support RES in general & RES-E in particular
- ◀ Contribute to the forming of a *European vision of a joint future RES policy framework* in the mid- to long-term

Aim of today

This workshop is dedicated to present and discuss draft final results & findings with a broad set of stakeholders. Among others this will provide also useful input to the final steps to be taken within this project...

In focus of forthcoming presentations:

- ◀ Europe's RES strategy beyond 2020
 - ◀ Possible/feasible **RES policy pathways for the period beyond 2020**
- ◀ **Design elements** for support instruments and **policy evaluation criteria**
 - ◀ **Interactions** between **RES policies** and **electricity markets**
- ◀ **Interim results** from the assessment of harmonisation pathways from a **juridical, strategic and techno-economic** viewpoint

Project coordination:
Energy Economics Group (EEG)
Vienna University of Technology

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Underlying problems / opportunities

Aim of *this project* is to *look more closely* beyond 2020 **well in time!**

beyond2020 tackles problems ... With Directive 2009/28/EC the European Parliament and Council have laid the grounds for the policy framework for renewable energies until 2020 ...

◀... but the *debate on (early) harmonisation of RES support has not ended* which *creates uncertainty* among market actors.

◀Proposal for RES-E harmonisation have *focused mainly on quota systems / certificate trading*.

◀*Previous evaluations of harmonisation have often been too idealistic / theoretical* – specifically juridical feasibility and political practicability or risks arising from policy or market failures have been, if at all, only considered insufficiently.

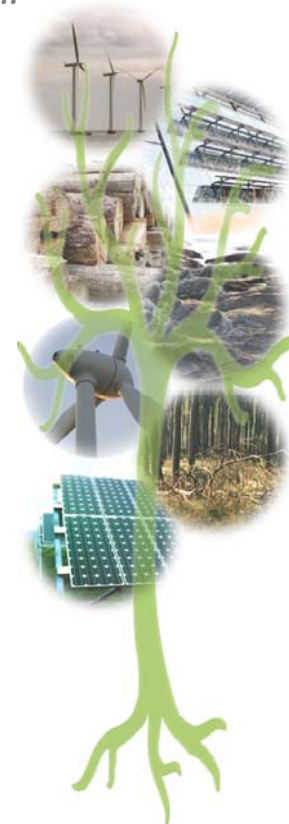
beyond2020 offers opportunities ...

◀Assessment of *a broad set of policy options* for a harmonisation of RES(-E) support

◀*Evaluation* of policy proposals *from various viewpoints* - i.e. costs & benefits, strategic impacts, political practicability, juridical implementation, market integration aspects.

◀*Focus* on *beyond 2020*, but also *transition phase before 2020* tackled.

◀Contribution to the debate *whether a harmonisation of RES support appears beneficial at all*



Main steps

◀ *Elaboration of feasible policy approaches for a harmonisation of RES support, involving various policy paths*

◀ *Impact assessment to analyse and contrast different instruments as well as corresponding design elements, involving ...*

◀ a *quantitative model-based analysis* of future RES deployment and corresponding cost, expenditures & benefits based on the Green-X model

◀ a detailed *qualitative analysis*, focussing on *strategic impacts*, *political practicability* and *guidelines for juridical implementation*.

◀ Derivation of *prerequisites* for and *trade-offs* with the future European *electricity market*.

◀ The project will be embedded in an intense and interactive dissemination framework.

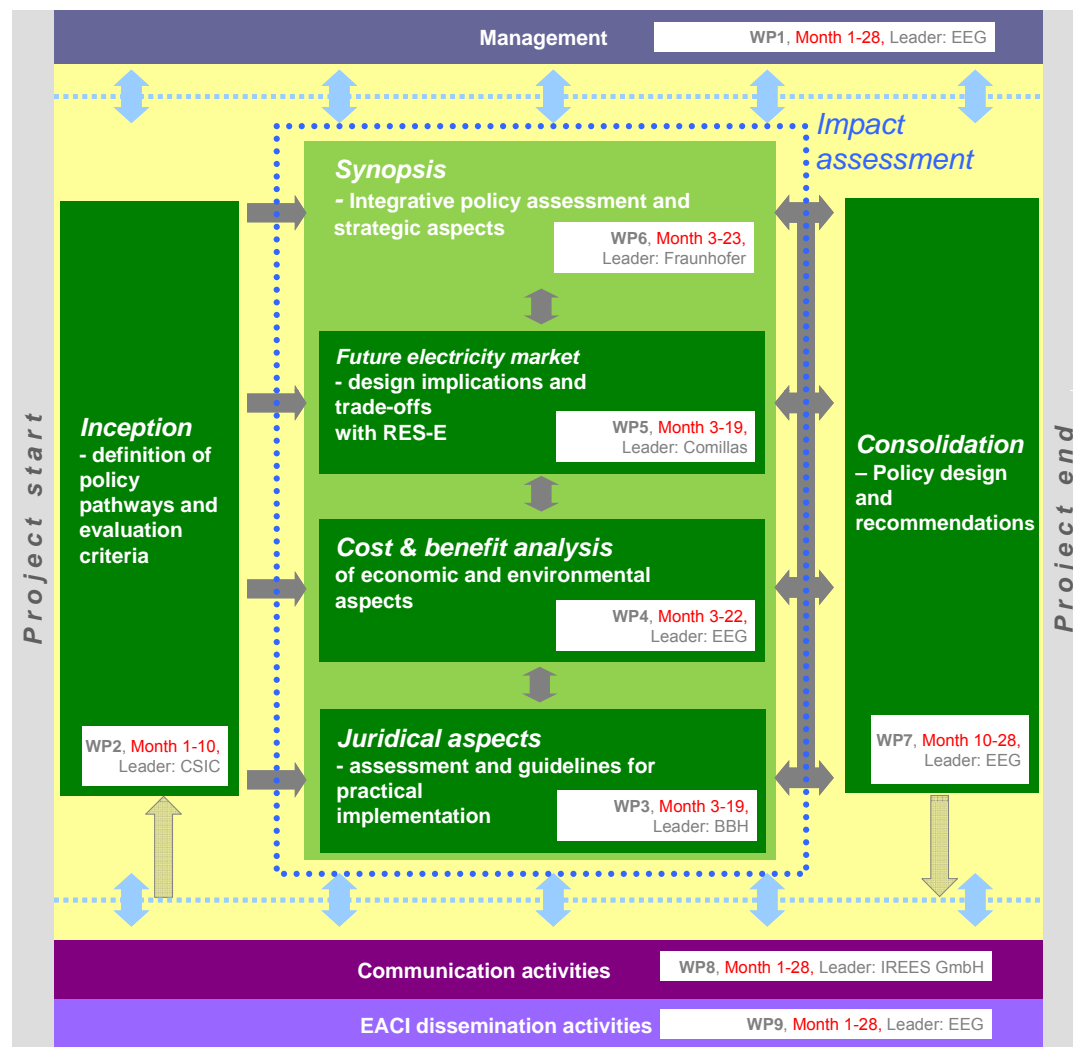


Figure: Flow chart of **beyond2020**



Expected results

beyond2020 aims to provide **the scientific knowledge base for the design, evaluation and implementation** of policy proposals for a **harmonisation of RES support** in Europe.

A broad set of results will be derived within beyond2020, available in form of comprehensive project reports, accomplished by brief summaries of key findings and presentations at workshops as well as via scientific papers ...

Key outcomes of beyond2020 are:

- ◀ Review report on *interactions* between assessed *RES-E support* instruments and *electricity markets*
- ◀ Identification of *potential areas of conflict of a harmonised RES support scheme with European Union Law* as well as derivation of legal requirements and recommendations
- ◀ A *Multi Criteria Decision Analysis (MCDA)* tool used to evaluate the policy proposals
- ◀ **The final outcome** will be a ***fine-tailored policy package***, offering:
 - ◀ A *concise representation of key outcomes* and a detailed comparison of *pros and cons of each policy pathway* (incl. quantitative and qualitative results)
 - ◀ Detailed *roadmaps for practical implementation* of each assessed policy pathway
 - ◀ Outline of a *legal draft for the implementation of key provisions* of two recommended policy pathways



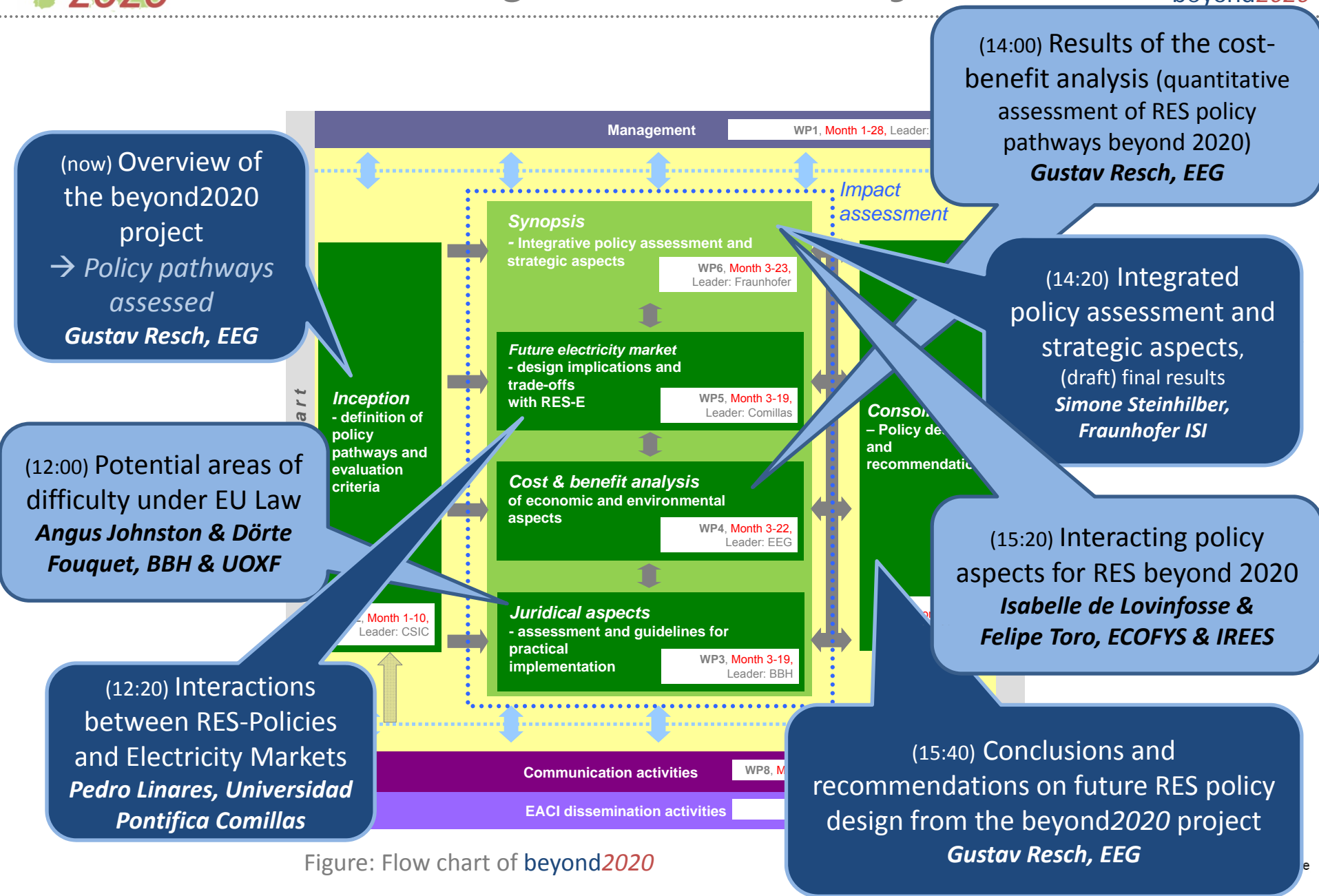


Figure: Flow chart of beyond2020

Overview on RES policy pathways beyond 2020

Degree of harmonisation		Instrument	FIT (feed-in tariff)	FIP (feed-in premium)	QUO (quota system with uniform TGC)	QUO banding (quota system with banded TGC)	ETS (no dedicated RES support)	TEN (Tendering for large scale RES)
Full	<ul style="list-style-type: none"> •EU target •One instrument 		1a	2a	3a*	4a	5*	6
Medium	<ul style="list-style-type: none"> •EU target •One instrument •Additional (limited) support allowed 		1b	2b	3b	4b		•Sensitivity to 7 (national support, but harmonisation for selected technologies)
Soft	<ul style="list-style-type: none"> •National targets •One instrument •MS can decide on various design elements incl. support levels 		1c	2c	3c	4c		
Mini-mum	<ul style="list-style-type: none"> •With minimum design standards for support instruments 	<ul style="list-style-type: none"> •National targets •Cooperation mechanism (limited/strong RES cooperation) 	7* Reference (national RES support with cooperation) <i>(without/with minimum design standards)</i>					
No	<ul style="list-style-type: none"> •No minimum design standards for support instruments 							

 Used for assessment of grid- and electricity market related aspects & interactions

Notes: *pre-assessment undertaken at the interim stage

Partners

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