

Subsidy schemes for promoting renewable energy in the EU and in Finland

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First steps to promote RES in EU

- After the oil crisis in the late 1970s.
 - Research and development support for new sources of energy as a way to curb oil dependency and enhance European energy security
 - Indicative energy-saving objectives including renewable energy research, demonstrations and regional applications
- Before mid 1990s
 - The promotion of RES was incorporated into the EU's regional policy
 - Most large-scale research and development support from national programmes in a few pioneering EU member states
 - Germany, The Netherlands, Denmark
 - Finland and Sweden who preparing their EU membership

First explicit RES-Electricity schemes in EU before the 1990s

Year	EU member state	Subsidy instrument	Source of technology or energy
1979	Denmark	Investment subsidy	Wind, biogas
1988	Portugal	Feed-in-Tariff	All technolgies
1989	Germany	Investment subsidy and Feed-in-Tariff	Wind
1989	United Kingdom	Tenders for non- fossil fuel obligation	Selected technologies

Climate change to the centre of EU's agenda

- After Rio earth summit in 1992 EU's objective was to reduce C02 emissions by means of RES promotion – e.g ALTENER-programme
 - A part of wider package of energy and climate measures
 - Strong opposition of certain member states resulted in the failure of the programme
 - Only indicative and modest targets were set up
- In parallel at national level
 - Denmark, Portugal, Germany, Greece, Luxenbourg and Spain set more ambitious national targets and adopted FiT schemes to support their RES deployment
- Energy for the future: Renewable sources of energy (1997)
 - Indicative RES target of 12 per cent in EU primary energy consumption by 2010
 - A proposal for EU-wide RES certificates was made due to the various development of subsidy schemes of the member states

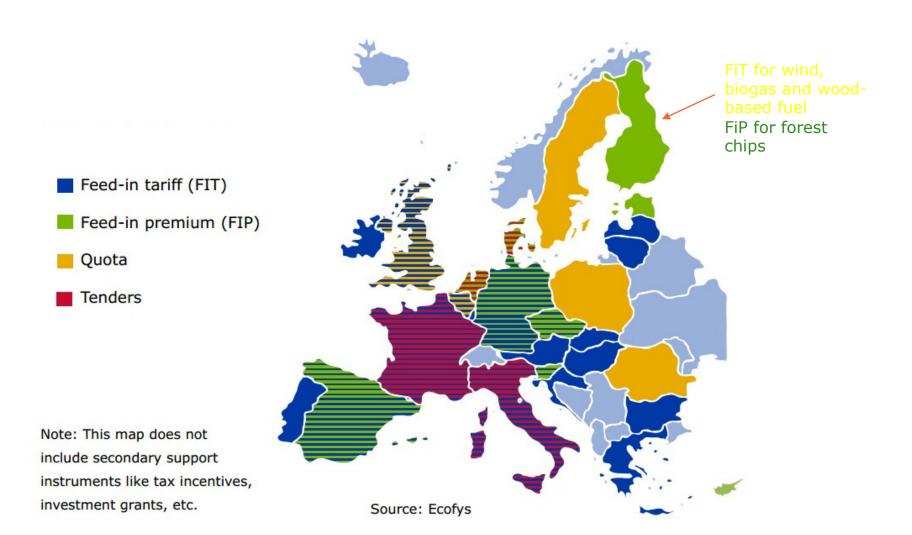
Major RES subsidy schemes for wind power in 2000 and in 2005

	EU member state	2000	2005
•	Denmark	FiT	Tender-FiP
•	Portugal	FiT	FiT
•	Germany	FiT	FiT
•	UK	transition phase	TGC
•	Italy	-	TGC
•	Belgium	TAX	TGC
•	Austria	TGC	FiT
•	Sweden	FiT	TGC
•	Greece	FiT	FiT
•	Ireland	Tender	TAX
•	Luxenburg	FiT	FiT
•	Netherlands	TAX, INV	FiT
•	France	Tender	Tender-FiT
•	Spain	FiT	FiT, FiP
•	Finland	TAX	TAX

The 2000s and beyond

- 2001 the first legislation which explicitly oriented towards promoting RES
 - The objective was to set up binding targets however only indicative targets, again
 - Also, the goal was once again to have RES certificates even this watered down mostly due to the member states that had successfully implemented FiTs
- Renewable energy directive 2009
 - Background: 20-20-20 package, the Kyoto protocol and the Nicholas Stern's Review
 - Finally, binding targets were set for the Member States
 - Harmonization of subsidy schemes failed because of the same reason and by the same member states as in 2001

Major RES subsidy schemes in EU 2013



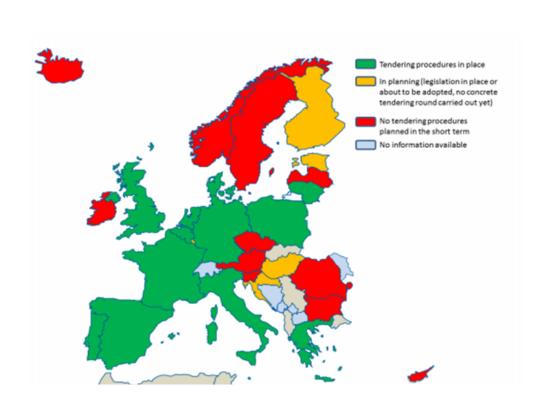
New subsidy schemes through tendering

- Commission Guidelines on State aid for environmental protection and energy 2014
- Set the frameworks for national renewable energy subsidy schemes
- Covers the period from the 1st July 2014 to the end of December 2020
- Concerns only new subsidy schemes

→ As a rule, only schemes where level of subsidies is based on tenders



Implementation status of RES tendering procedures in 2016-2017



As a result; mixed subsidy schemes in EU

- Different type of subsidy schemes
 - FiT, FiP, TGC, Investment grants
- Different criteria for determining the level of subsidy or the quota
 - Administrative
 - Tender
- Subsidies for different technologies
 - PV, Onshore-wind, Offshore-wind, bioenergy, hydro-power
- What is subsidised?
 - Capasity, production
- Duration of subsidy
 - From 5 to 30 years

Main subsidy scheme	Subsidy is determined	In use in the EU, number
FiT	Adminis- trative	15
FiP	Adminis- trative	11
FiT	Tender	4
FiP	Tender	13
TGC	Adminis- trative	6
INV	Adminis- trative	5

RES subsidy schemes in Finland



Towards a competitive subsidy scheme in Finland

- Working group on reform of subsidy schemes (2015-2016)
 - To examine different tendering processes
 - Draw up a proposal for subsidy scheme where the level of subsidy is determined by tendering
- Finnish National Energy and Climate strategy for 2030
 - Was released in November 2016
 - Included proposal for competitive subsidy scheme: It was consistent with the Working Group
- But what was decided in Finnish parliament?
 - Annual production was reduced from 2 TWh to 1,4 TWh
 - Only one bidding round instead of the planned two



Thank you!

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