

Comparison of feed-in premium (FIP) systems in UK, DE, NL, DK and ES

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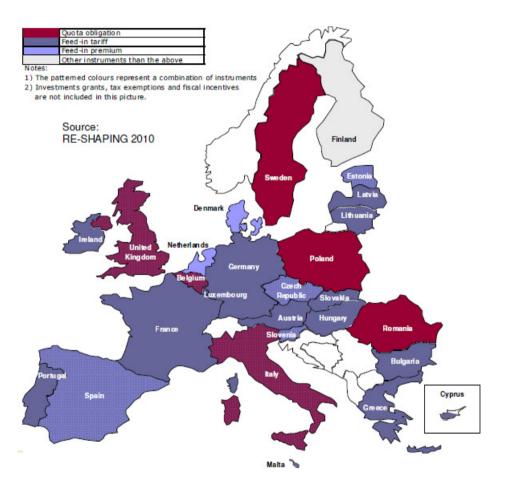




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RES-E support in the MS – recent trends (1)

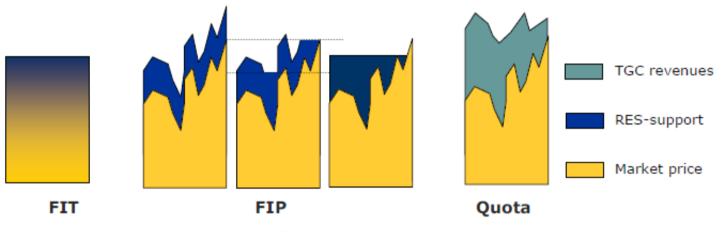
- Traditionally diversity of national support schemes in Europe
- In recent years, a gradual convergence towards best practice design elements can be observed in the more successful MS
 - Technology specification to avoid windfall profits and incentivise new technologies
 - Risk reduction through increasing predictability of revenues
 - From quota to FIP
 - From fixed to sliding premiums
 - Increased focus on market integration of RES-E
 - From FIT to FIP





RES-E support in the MS – recent trends (2)

 Nevertheless design specifications differ in countries with similar schemes (e.g. FIP)



fixed premium - cap & floor - sliding/Cfd



Discussion on European coordination of RES-E support

Forced harmonisation?

- EC pushes for stronger cooperation/harmonisation
- Next EC report on RES support schemes announced for 1st half 2012

Voluntary coordination between MS?

- Some design elements already converge
- What can be learned from the differences?
- Explicit coordination of certain elements?
- Potential benefits: stronger position in cooperation discussion, alignment of RES-E market conditions



Rationale of FIP systems

Main reasons why MS have introduced FIP systems:

- Ensure efficient market integration of RES-E
 - Production should react to market price signals incentive to match generation to demand and to avoid very negative market prices
 - Efficient forecasting and balancing of RES-E generation
- Limit revenue risks and provide stable income to RES-E generators
- Minimise cost of RES-E to consumers

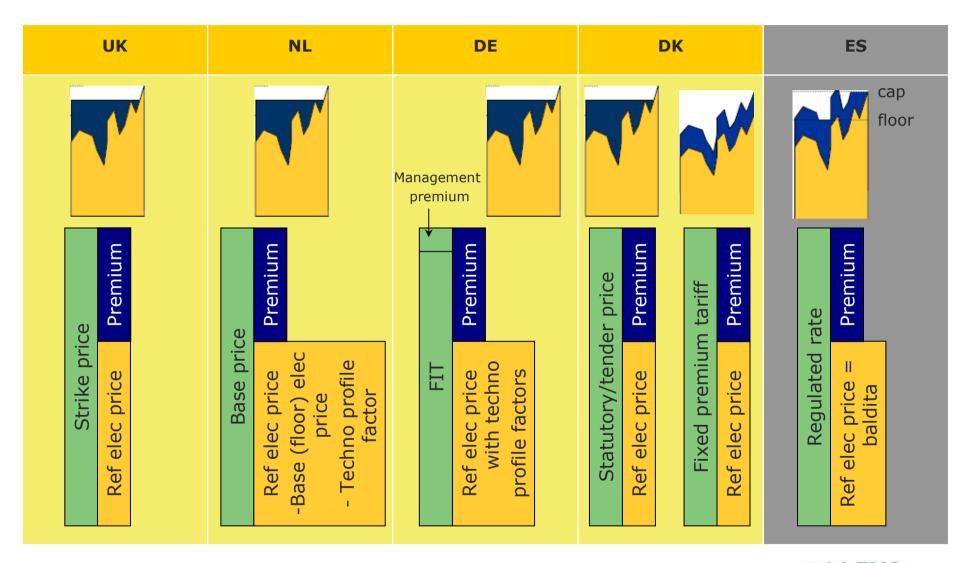


FIP systems - Main features

	UK	NL	DE	DK	ES
Starting	2013 - 2014?	2009 SDE 2011 SDE+	2012	2009	2007 2009 change
Eligibility	All techno >5MW 20 years?	All techno 12-15 years	All techno 20 years	All techno 10-20 years	All techno except wind offshore 25 years
FIP only or choice	Until 2017 new installations choice RO or CfD	FIP only	Monthly choice FIP- FIT	FIP only for new installations	Choice FIP- FIT annual



FIP systems – elements & terminology





FIP systems - Critical design elements

	UK	NL	DE	DK	ES
Premium setting process	FIT with CfD Strike price set up in long term contract RES-E receive FIT or pay back depending on ref price	Premium is set annually specifically for next application round Ministry sets support level	FIT is adjusted every 3-4 years + automatic annual digression (2x/a based on growth for PV) Ministry sets support level	Max stat price or premium set in RE Act or tenders (wind offshore) Wind onshore and biomass no cap, fixed premium	TSO calculate Baldita monthly CNE calculates premium monthly based on Baldita
Reference electricity market price & period	Short term (daily) or long term (annual) reference electricity market price depending on techno (intermittent or baseload)	Annually Ref elec price >Base (floor) electricity price >Techno profile factor in law but not yet (transparently) applied	Monthly, corrected for technology profile (profile factor applied)	?	Hourly, basis for CNE calculation of premium
Institution in charge	?	Ministry agency	TSO for support payments	Danish Energy Agency (tenders), TSO (premiums)	CNE, TSO, DNOs, representating agents

Questions to MS representatives

- What are the key design elements of your FIP system and what is at stake?
- What elements of the FIP system are challenging?
- What experience from other MS do you want to discuss?



Discussion topics (suggestion)

- Mutual learning
 - Comparison of institutional frameworks between countries
 - Critical design elements determining investment risk, e.g. ex-post vs. ex-ante premium determination
- Coordination
 - What elements of sliding FIP could be considered for coordination and would be beneficial from the MS perspective?
 - Within what structure is such coordination imaginable?
 - Could MS imagine bringing such ideas into the EU discussion? How?

