

Overview of transmission tariffs 2011

entsoe

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General

- **32 participating countries**
- **Update of 2010 prices with final data**
- **For some countries 2011 prices are estimations**
- **Same contents as in 2010**

Main characteristics of TSO tariffs 2011

- **Sharing of grid charges among G and L**
  - In most countries load pays 100%
  - 11 countries G pays part of tariff: Austria, Denmark, Finland, France, GB, Ireland, Norway, Poland, Romania, Spain and Sweden
  - In countries where G pays, charges for G are much lower than for L
- **Seasonal/time-of-day signal:**
  - Belgium, Croatia, Estonia, Finland, GB, Greece, NI, Norway, Portugal, Serbia, Slovenia, Spain.
- **Location signal:**
  - Great Britain, Ireland, Norway, Romania and Sweden

- **Losses included in tariff**
  - In most countries losses are included
  - Not included: Belgium (>150kV), Bosnia & H., GB, Greece, Ireland, Italy, NI, Portugal, Spain
  - Specific fee for losses: Slovak Rep and Switzerland
- **System services included in tariff**
  - Not included in: Bosnia and H.,Portugal and Spain
  - Specific tariff for S.S: Austria, Belgium, GB, Greece, Hungary, Netherlands, NI, Romania, Slovak Rep and, Slovenia and Switzerland

Costs included in the comparison, main findings

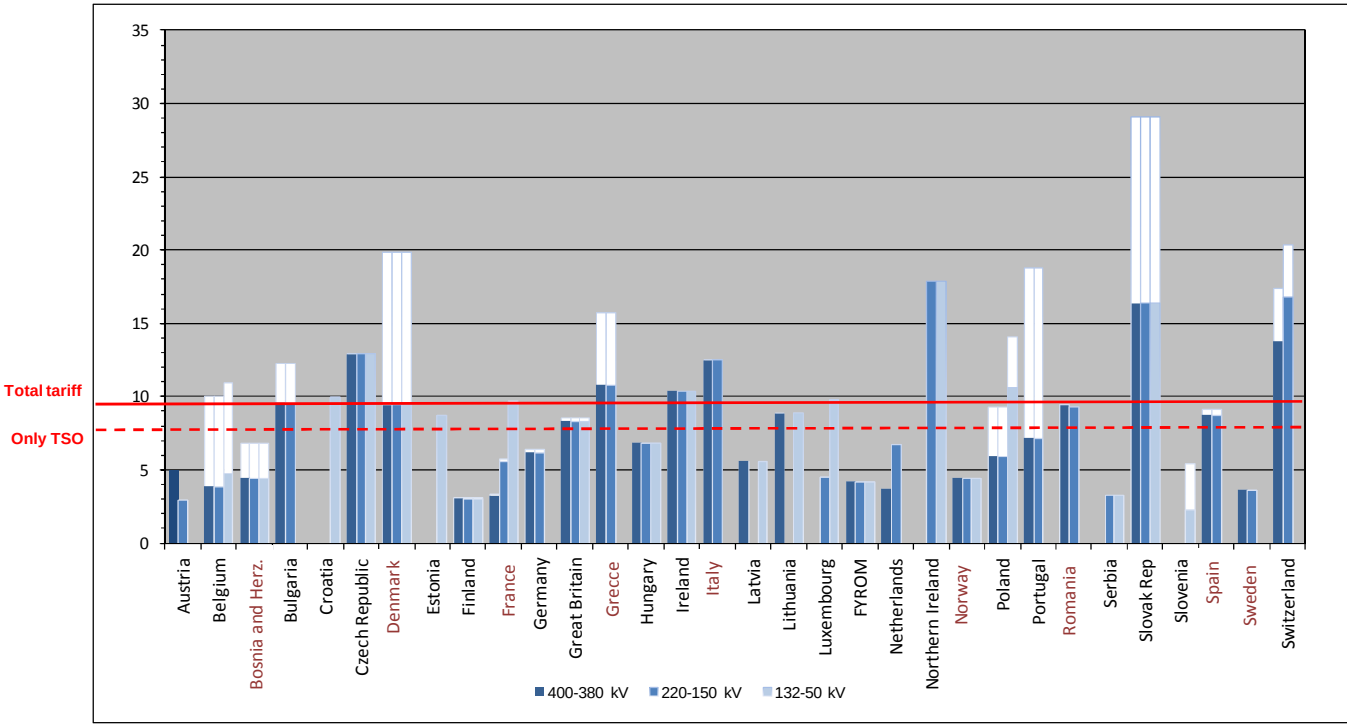


- **Infrastructure costs (capex, opex) are included in all countries.**
- **System services costs included in tariff vary across Europe :**
  - Several countries Primary reserve is not included
  - System balancing is not included in most countries
  - Secondary reserve doesn´t exist in Nordic countries
- **Other costs (stranded costs, public interest contribution, renewable energy and others) are included in 50% of countries.**

Comparison of transmission tariffs

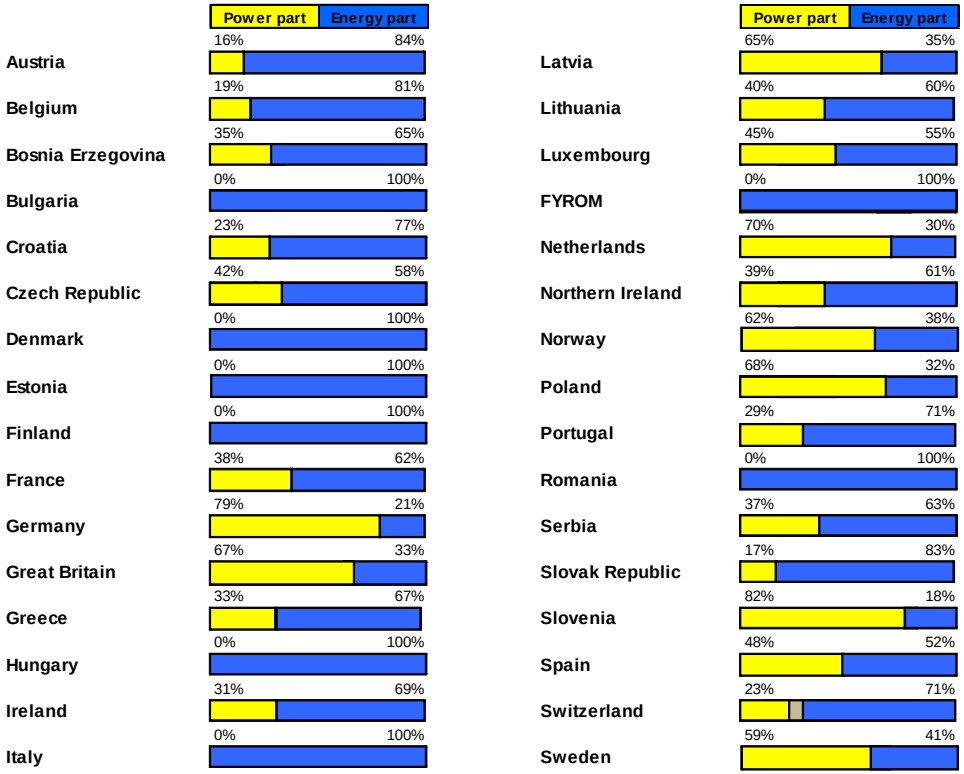
- **Average 2011 tariff**
  - 9,6 €/MWh total tariff
  - 7,7 €MWh TSO only
- **Voltage ranges**
  - In 13 countries within 400 - 50 kV
  - In 11 countries TSO tariff is applied within 400- 220 kV
  - In 3 countries only 132-50 kV level exists

Comparison of transmission tariffs 2011: total tariff and "TSO only" tariff (inc. infrastructure costs, losses and ancillary services)



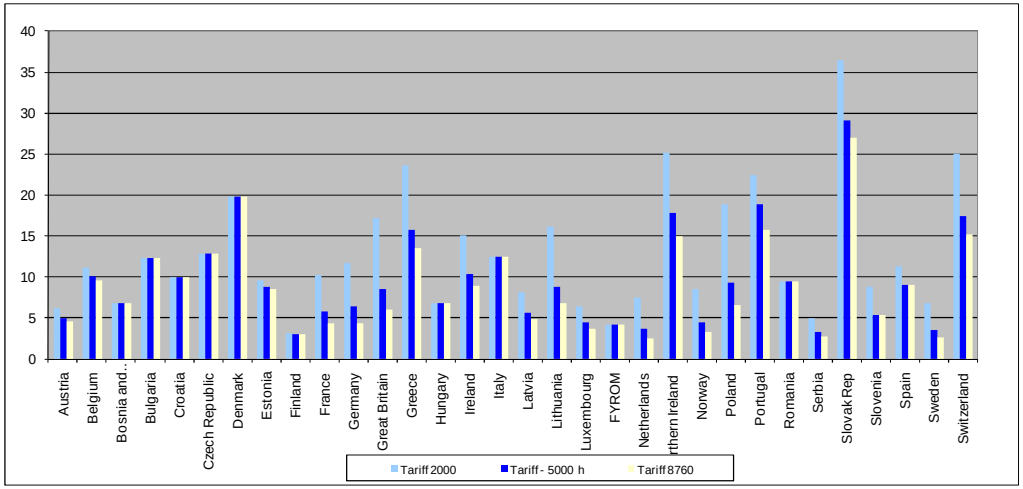
Energy and power components

- **Energy only component in 8 countries**
  - Bulgaria, Denmark, Estonia, Finland, Hungary, Italy, FYROM and Romania
- **In 8 countries power component is above 50%**
  - Germany, GB, Latvia, Lithuania, Netherlands, Poland, Slovenia, and Sweden



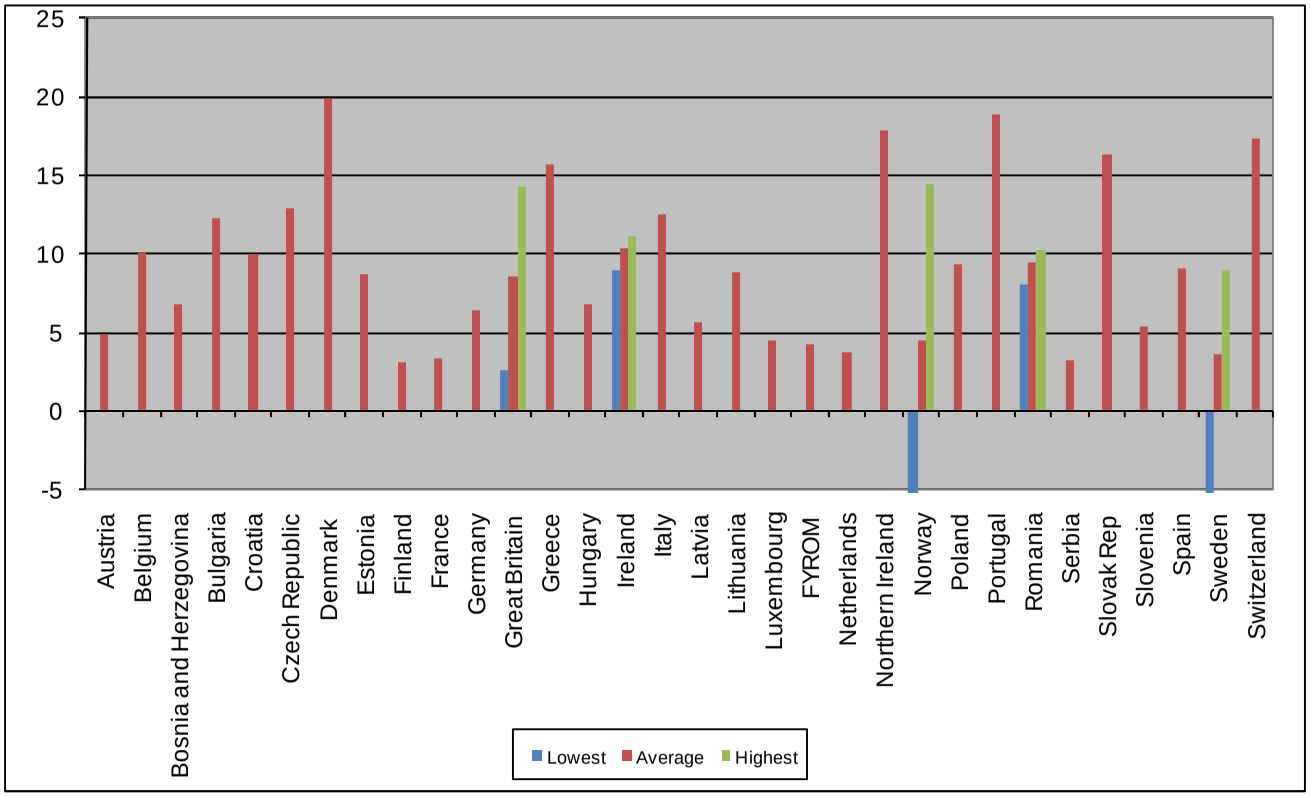
Impact of Utilisation Time

Comparison of transmission tariffs 2011 G+L : impact of utilisation time



- **Tariff independant of utilisation time in 10 countries**
  - Bosnia, Bulgaria, Croatia, Czech Republic, Denmark, Finland, Hungary, Italy, FYROM and Romania
- **Tariff decreases with utilisation time in 22 countries**

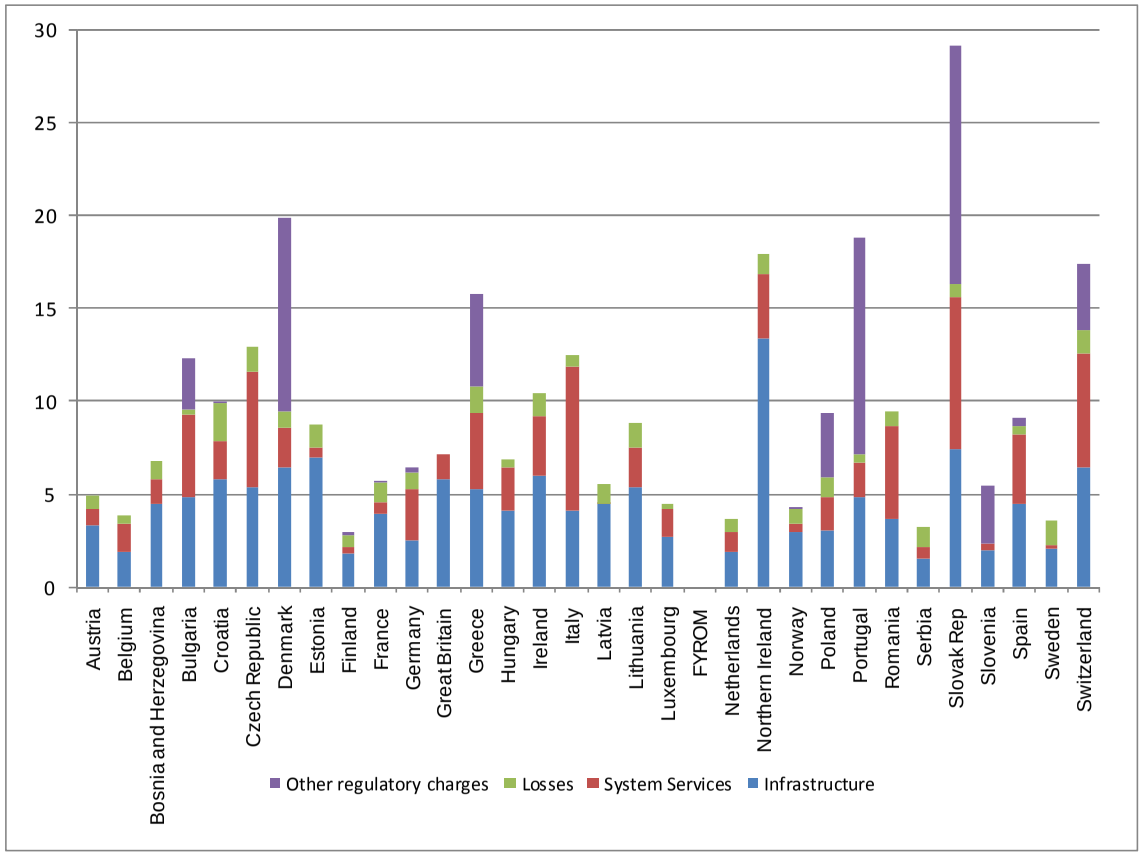
Impact of location



- **5 countries have locational tarif : Germany, Great Britain, Norway, Romania and Sweden.**

Components of transmission tariffs

% of total tariff (average values)	2011
Infrastructure	40%
System services	23%
Losses	8%
Other (inc levies)	29%

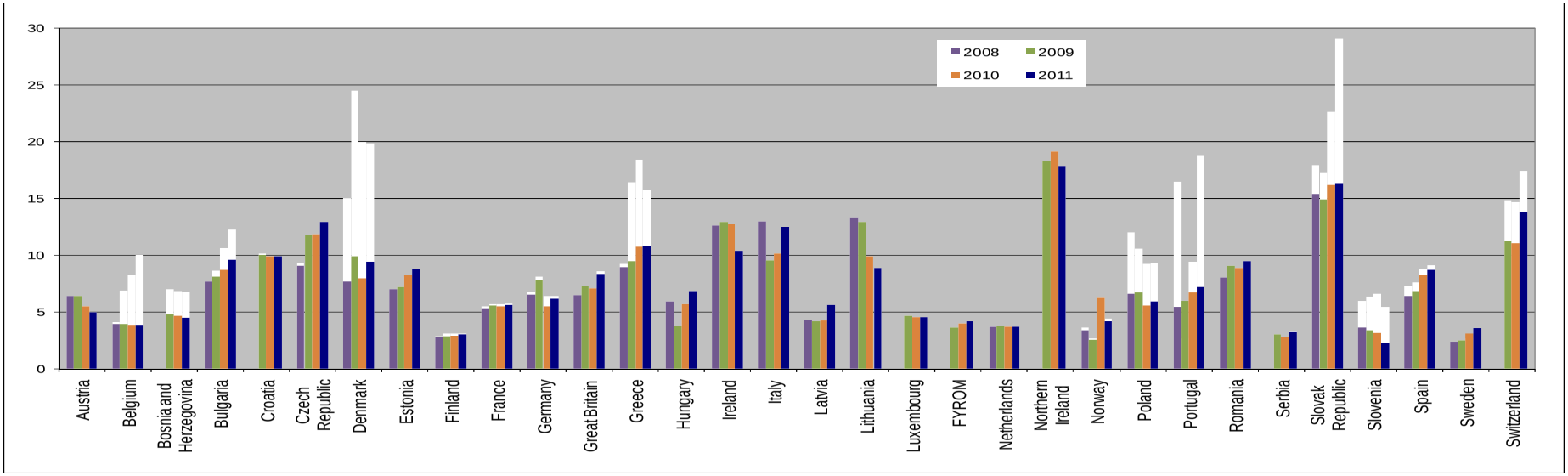


Components of transmission tariffs

Losses (€/MWh)	Country
Below 0,7	Finland, Austria, Netherlands, Portugal, Great Britain, Luxembourg, Belgium, Italy, Hungary, Spain, Bulgaria
0,7 < … < 1	Denmark, Germany, Romania, Slovak Rep, Norway
Above 1	Estonia, Latvia, Slovenia, France, Serbia, Bosnia and Hervegovina, Luthuania, Poland, Croatia, Switzerland, Greece, Ireland, Czech Republic, Nothern Ireland, Sweden

System Services(€/MWh)	Country
Below 1	Finland, Latvia, Norway, Slovenia, Sweden, France, Serbia
1 < … < 3	Austria, Bosnia and Herzegovina, Netherlands, Portugal, Great Britain, Luxembourg, Croatia, Belgium, Lithuania, Poland, Hungary, Spain, Switzerland, Denmark, Germany
Above 3	Bulgaria, Romania, Italy, Ireland, Greece, Czech Republic, Nothern Ireland, Slovak Republic

Evolution of transmission tariffs, in constant euros of 2010.



average values (€/MWh)	Total	"TSO Only" cost
2008	6.7	5.7
2009	8.5	7.3
2010	9.0	7.4
2011	9.6	7.7

Remarks:
– In 2009, 7 new countries joined the report that increased the average

Other regulatory charges

- **17 TSO's include in their tariffs « other costs » (stranded costs, public interest contribution, renewable energy and others).**
- **The range of charges vary :**
  - **from 0,01 €/MWh in Croatia**
  - **to 12,74 €.MWh in Slovak Rep.**

First connection charges

Shallow	Partly Deep	Deep	Shallow/Deep
Belgium	Hungary	Austria	Germany
Bosnia and Herzegovina	Lithuania	Croatia	Serbia
Bulgaria	Slovak Rep.	Estonia	
Czech Rep.		Latvia	
Denmark		Romania	
Finland		Slovenia	
France		Sweden	
Great Britain			
Greece			
Ireland			
Italy			
Luxembourg			
FYROM			
Netherlands			
Northern Ireland			
Norway			
Poland			
Portugal			
Spain			

Reactive Energy (excluding Voltage Control)



Country	Reactive Tariff (Y/N)	Penalty (Y/N)
Bosnia and Herzegovina	Y	N
Croatia	Y	N
Estonia	Y	N
Latvia	Y	N
Lithuania	Y	N
Norway	Y	N
Romania	Y	N
Serbia	Y	Y
Slovenia	Y	Y
Switzerland	Y	N
Germany	Y, partly	Y, partly
Belgium	N	Y
Bulgaria	N	Y
Finland	N	Y
France	N	Y
Italy	N	Y

Country	Reactive Tariff (Y/N)	Penalty (Y/N)
Luxembourg	N	Y
FYROM	N	Y
Poland	N	Y
Portugal	N	Y
Spain	N	Y
Austria	N	N
Denmark	N	N
Great Britain	N	N
Greece	N	N
Hungary	N	N
Ireland	N	N
Netherlands	N	N
Northern Ireland	N	N
Slovak Republic	N	N
Sweden	N	N
Czech Republic	No for EHV	No for EHV

Treatment Final Customers vs DSOs



Country	Different treatment between final customer and distributor
Belgium	Yes
Hungary	Yes
Ireland	Yes
Italy	Yes
Luxembourg	Yes
Poland	Yes
Austria	No
Bosnia and Herzegovina	No
Bulgaria	No
Croatia	No
Czech Republic	No
Denmark	No
Estonia	No
Finland	No
France	No
FYROM	No

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Germany	No
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Greece	No
Latvia	No
Lithuania	No
Netherlands	No
Northern Ireland	No
Norway	No
Portugal	No
Romania	No
Serbia	No
Slovak Republic	No
Slovenia	No
Spain	No
Sweden	No
Switzerland	No