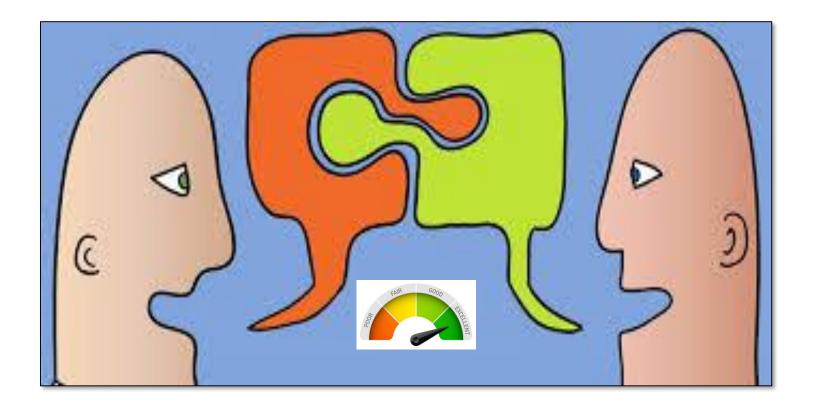


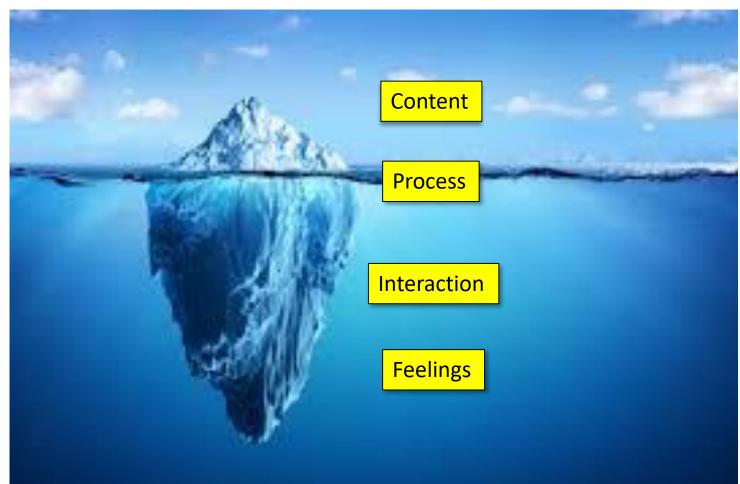
## TSO DSO cooperation Results of the partner satisfaction survey



Jan/ Febr. 2020



#### The 4 levels of communications



So this is not about content

**Content:** Eg. discussing network codes

**Process:** Agreeing on the joint way of working

Interaction Having effective dialogues

**Feelings** Addressing trust and emotions

## Why is TSO DSO cooperation important, also on member states level ?

#### EU Member states are committed to European objectives:

- Greenhouse gas reduction mitigating climate change
- One European Energy market

#### This requires a transformation of the "one system" (also on national level):

- Transformation to renewables energy
- Decentralization of power supply
- Cross sectoral data exchange and interoperability
- Open markets

## Leading to active system management of an energy system, in which in the future millions of actors will participate

• Combining TSO and DSOs core competencies

#### Society simply expects that we jointly get the job done:

- We should evaluate how we are joining forces (feedback is a gift),
- We jointly could become more effective by addressing the cooperation issues (process, interactions, feelings) first, before we dive into the content.







#### The 5 survey questions

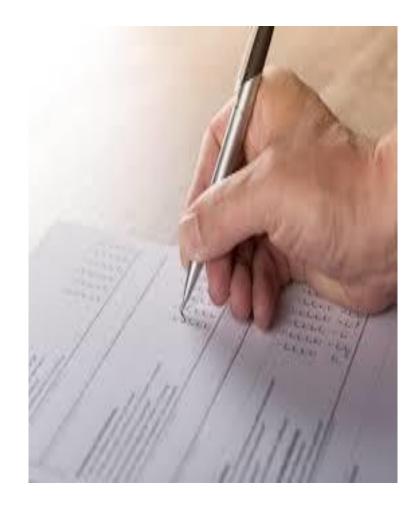
Q1: How do you qualify overall TSO-DSO cooperation in your country

**Q2:** How do you qualify openness & transparency as well as mutual trust in the TSO-DSO relation in your country

**Q3:** How do you qualify the willingness of the TSO in your country to cooperate with the DSOs in the future ?

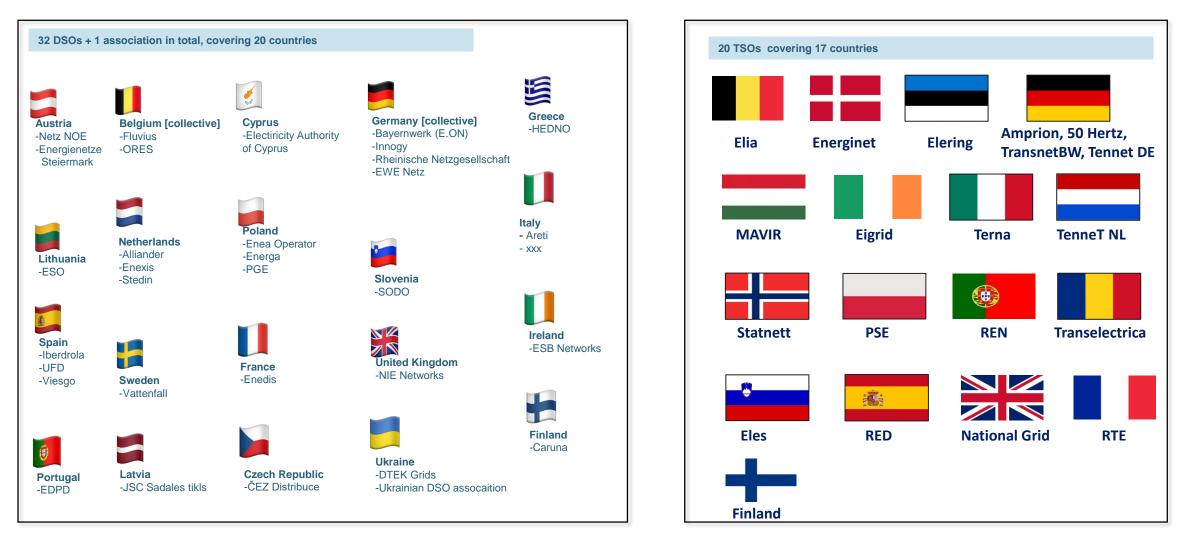
**Q4:** Is there a formal TSO-DSO cooperation meeting / body in your country ?

**Q5:** What works well in the cooperation and should be kept and what needs to be improved ?





#### **Responses received**



Disclaimer: The answers do not necessarily reflect the company's position but the respondent's view

## E.DSO

## **DSO responses: findings on TSO DSO cooperation**

- In the majority of cases, the conditions for cooperation were assessed as satisfactory, but in some Member States (like in Italy), the cooperation conditions need to be defined into detail.
- There is a need for creating a joint vision as well as assigning roles and responsibilities for new functionalities. That means intensifying mutual discussions in a well-structured way while working out common solutions.
- In case of a negative assessment of the cooperation with a TSO was given in the responses, this is oftentimes is the result of:
  - A marginalization of the DSOs' needs and roles, DSOs not being perceived as a full partner,
  - TSOs making use of their prevailing position as overall system operator of the electricity system,
  - Lack of mutual consultation on preparing proposals prior to presenting them at the NRA or ministry level.
- It becomes clear that in order to promote further cooperation in all Member States, improvements are needed, in some countries in particular, primarily concerning the relations and cooperation on mutual dependencies and solutions to be adopted in future market models.

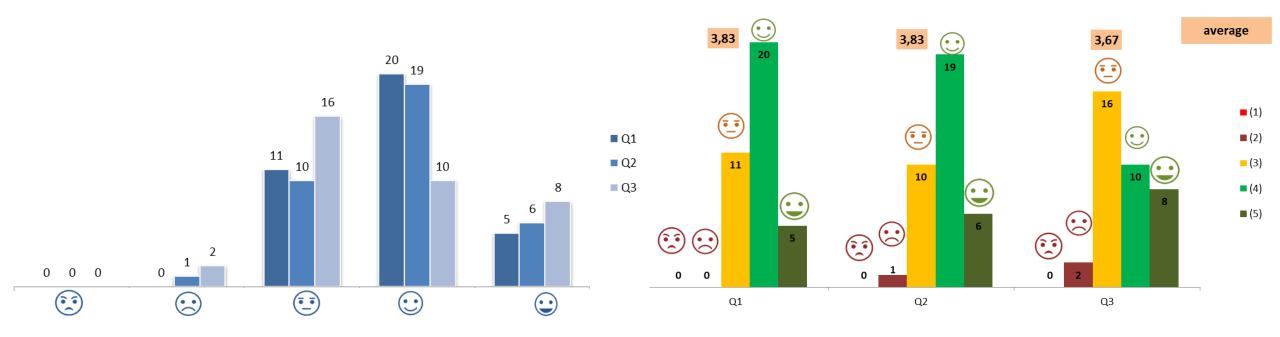


## DSO qualification on TSO-DSO cooperation (Q1,Q2,Q3)

(with additional input from Eurelectric)

Number of received answers to questions asked in given categories of satisfaction level.

## Level of satisfactions for given questions with average levels of satisfaction with cooperation.

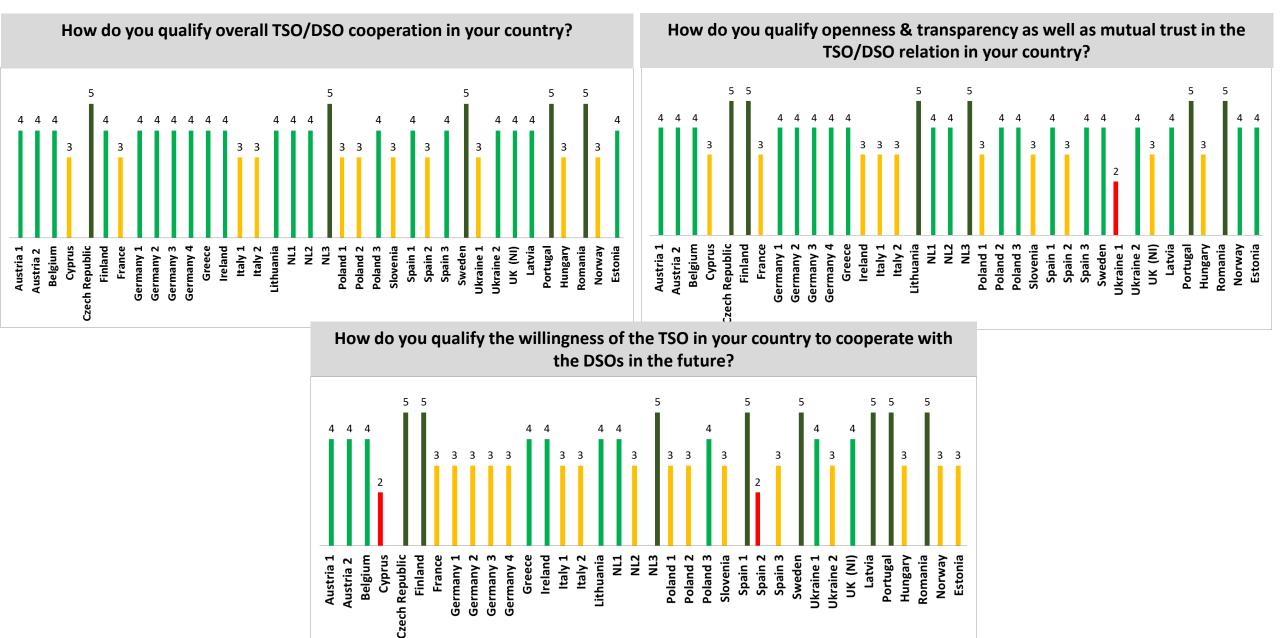


Q1: How do you qualify overall TSO-DSO cooperation in your country

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Q3: How do you qualify the willingness of the TSO in your country to cooperate with the DSOs in the future

### Level of DSO satisfactions for questions Q1,Q2,Q3



E.DSO

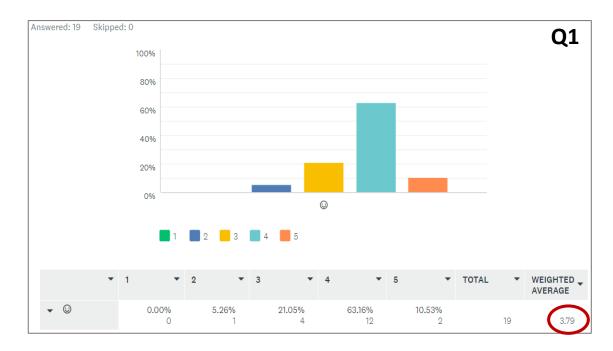


## **TSO responses: findings on TSO DSO cooperation**

- Overall, TSOs provided a positive assessment of TSO-DSO cooperation in their country (3.8). There is a strong willingness to work together (3.6) but they feel there is not always the required level of openness and transparency (3.4).
- In countries with the highest grade, TSOs mentioned the existence of many formal groups and joint projects, a culture of cooperation and grid topology as reasons for good cooperation.
- In countries with the lowest grade, the cooperation is limited to participation in joint pilot projects or high-level discussion on national policies but there is an overall lack of understanding of each others' challenges.
- The key topics for future cooperation are: integration of renewables, procurement of ancillary servics from distributed flexibilities, implementation of Clean Energy Package, e-mobility.

### TSO qualification on TSO-DSO cooperation (Q1,Q2,Q3)

Comments (17)

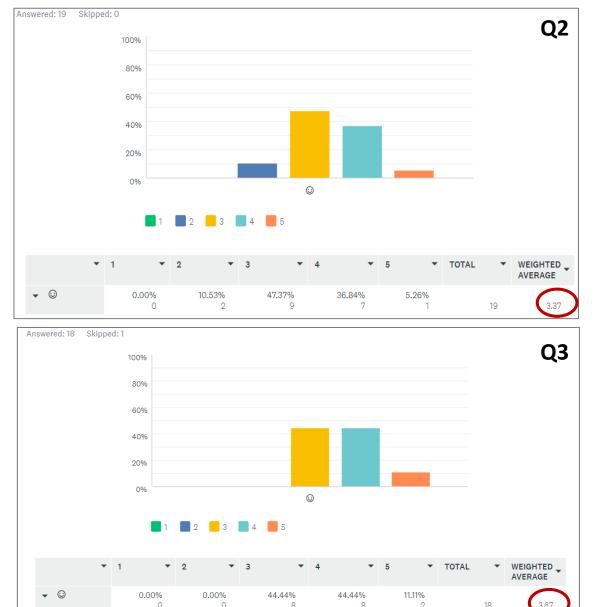


**Q1**: How do you qualify overall TSO-DSO cooperation in your country

**Q2**: How do you qualify openness & transparency as well as mutual trust in the TSO-DSO relation in your country

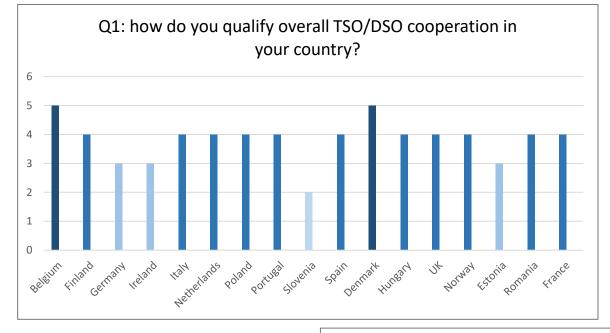
**Q3**: How do you qualify the willingness of the TSO in your country to cooperate with the DSOs in the future

Disclaimer: The answers do not necessarily reflect the company's position but the respondent's view

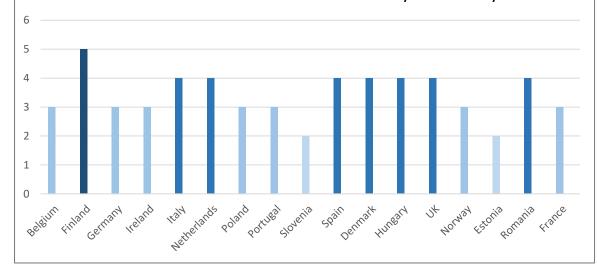


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## TSO qualification on TSO-DSO cooperation (Q1,Q2,Q3)



Q2: How do you qualify openness & transparency as well as mutual trust in the TSO-DSO relation in your country?



Q3: How do you qualify the willingness of the TSO in your country to cooperate with the DSOs in the future? 6 4 3 2 0 etherlands Norway Estonia Beleium Finland Germany reland 1×ally Poland Portugal Slovenia spain Denmart HUNBARY Romania France 34

Disclaimer: The answers do not necessarily reflect the company's position but the respondent's view

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#### Matching the scores...

	Que	stion 1		
			Г	
TSO		DSO	⊢	
Score Q1	Country	Score Q1		National
			⊢	score
	Austria		-	
	Belgium		L	4,5
	Cyprus		L	
	Czech Rep.		L	
	Denmark			4,5
	Estonia			4
	Finland			4
	France		Γ	3,5
			Γ	
	Germany			3,5
	-			
	Greece		F	
	Hungary		F	3,5
	Ireland		F	3,5
			ŀ	
	Italy		-	3,5
	Latvia		-	
	Lithuania		-	
	Netherlands			4,17
			-	
	Norway		-	3,5
	Poland			3,67
	Portugal		F	4,5
	Romenia		Γ	4,5
	Slovenia		Γ	2,5
	Spain			3,84
	Sweden		F	
	Librarian		F	
	Ukraina		F	
	UK N. Ireland			4
3,79		3,83	L	

	Question 2					
TSO	DSO					
Score Q2	Country	Score Q2				
	Austria					
	Belgium					
	Cyprus					
	Czech Rep.					
	Denmark					
	Estonia					
	Finland					
	France					
	Germany					
	Greece					
	Hungary					
	Ireland					
	Italy					
	Latvia					
	Lithuania					
	Netherlands					
	Norway					
	Poland					
	Portugal					
	Romenia					
	Slovenia					
	Spain					
	Sweden					
	Ukraina					
	UK N. Ireland					
3,37		3,83				

National

score

3,5

4

4

5

3

3,5

3,5

3

3,5

4,17

3,5

3,34

4

4,5

2,5

3,84

3,5

TSO		DSO		7
Score Q3	Country	Score Q3	National score	To sco
	Austria			-
	Belgium		4	
	Cyprus			
	Czech Rep.			
	Denmark		4,5	] :
	Estonia		3	] :
	Finland		4	] :
	France		3	<u> </u>
	Germany		3	:
	Greece			
	Hungary		3,5	1
	Ireland		3,5	:
	Italy		3	:
	Latvia			1
	Lithuania			
	Netherlands		4	12
	Norway		3,5	1
	Poland		3,67	10
	Portugal		4,5	:
	Romenia		5	:
	Slovenia		3,5	8
	Spain		3,67	11
	Sweden			
	Ukraina			
	UK N. Ireland		4	1
3,61		3,67		



# Q4: Is there a formal TSO-DSO cooperation meeting / body in your country ?

#### **DSO Responses**

Estonia(M) Norway(M) Romenia(M) Hungary(M) Portugal (M) Latvia(A) Germany (M) Northern Ireland (A) Ukraina (M) Sweden (M) Spain (M) Slovenia (M) Poland (A) Netherlands (A) Lithuania (M) Italy (M) Ireland (M) Greece (M France (M) Finland (A) Czech (A) Cyprus (M) Belgium (A) Austria (M)

The cooperation between TSO and DSO is generally carried out within the framework of established associations or on the basis of ratified agreement and by holding on regular basis meetings. Additionally, when needed, there are created special groups able to solve current problems and cooperate in joined projects. One Member State pointed out at the lack of a structured framework for the cooperation in of these areas. Another Member State confirmed that they are holding the base on establishing formal unit for future cooperation.

The most important thing that is worth continuing is organizing joint meetings, creating thematic groups which, in particular at the operational and technical level of activity, would allow for a better understanding of the problems of both parties and making joint efforts to solve these problems.

The legitimacy of organizing joint DSO / TSO and NRA meetings was also considered appropriate.

(M) meetings, agreement for cooperation (A) association, formal body

**TSO Responses** 



position but the respondent's view

#### entso

## Q5: What is working well in your TSO-DSO relation and should be kept?

#### **DSO** responses

- Discussions at eye level, regular meetings at staff level, joint activities [Austria, Belgium, Cyprus, France, Italy, Poland]
- Investing and maintaining human relations, trust, being able to freely to communicate [Netherlands, Sweden, Latvia, Spain]
- Cooperation in innovation projects [Spain]
- Common wg with regulator and ministry [Germany]
- Formal agreement for planning, operations and project delivery **[Lithuania, N.Ireland]**
- Common understanding on the need for cooperation **[Portugal]**

TSO responses

- Trust and everyday business process in operation and planning [Italy, Estonia, Finland, Hungary, Portugal, Romania]
- Fact-based / technical discussion, not politically driven [Germany, Spain]
- Genuine respect for the compentent authority of each. No land grab either side for existing roles [Ireland, The Netherlands]
- Data management [Estonia, The Netherlands, Norway]
- Cooperation between experts is at high level [Slovenia]
- functions dedicated to the development of products related to DSOs and relations with DSOs [Belgium]



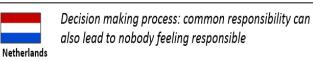
## Q6: What do you suggest doing to improve TSO-DSO relations in your country?

#### **DSO** Responses

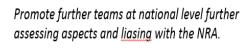
- Accelerated decision making [Austria]
- More clear defined roles & responsibilities [Cyprus, Spain, Germany]
- Equal rights towards politicians and ministry, being consulted prior to presenting to NRA and Ministry
   [France, Finland, Germany, Poland, Cyprus]
- NRA fostering TSO DSO cooperation [Italy]
- Improved communication, openness, transparency
  [Belgium, Ukraina, Poland, N.Ireland, Spain]
- Common R&D projects [Lithuania]
- Minimize bureaucracy [Spain, Cyprus]
- Cooperation culture spread to a wider group [Netherlands]
- More open data exchange, loadprognosis [Sweden]

#### **TSO Responses**





- 1. mobility 2. c load for them
  - 1. mobility 2. distributed generation, dispatching the load for them 3. new ancillary services





1

Spain

Sometimes more efficiency on common actions is expected.



Poland

The establishment of a formal body seems to be necessary.



Ireland

Continuous bridging/alignment at executive level



Agreed long term vision of what is needed in the power system

Disclaimer: The answers do not necessarily reflect the company's position but the respondent's view

#### Joint conclusions & recommendations







#### Conclusion on status of TSO DSO Cooperation:

In general satisfactory, but specific improvements on national level are possible

#### Recommendations

- 1. We advise:
  - Jointly (TSO & DSOs) discuss this feedback in your country
  - Agree on what could be improved

#### 2. Next Year:

- Repeat this exercise (to learn whether we made progress)
- Expand to a "3 level" survey (Executive board, Management, working staff) in relevant areas.

ENTSOE and EDSO will actively support improving cooperation's between its members on national level.