



CWE Consultative Group meeting

Brussels, November 19th 2015
Sheraton hotel Brussels Airport
Meeting room Satellite 7

CWE Consultative Group – Meeting agenda

November 19th, 2015



1. Nomination of the CWE Consultative Group chairmen
2. Review of last Flow-Based market results and status on Euphemia developments
3. Interface between CWE project partners and Market Participants
4. Transparency proposal and dialogue for transparency measures within CWE region
5. Market Parties' / NRAs' reaction and questions
6. Regional coupling situation
7. Status on Intraday Capacity Calculation
8. Update on upcoming changes within CWE region
 - Interconnector BeDeLux project
 - APG integration
 - Transmission Rights with delivery from 01/01/2016 on (including Implementation of Financial Transmission Rights on Belgian borders)



Introduction

TSO appreciate to strengthen the direct dialogue with Market Parties in order to increase understanding of the needs and to achieve improved collaboration concerning the transparency issues.

Concerning transparency, three concrete actions have been taken

1. General approach for impact assessments based on a fixed amount of days
 - Project partners prepared a proposition with a set of 10 typical days, which is open for discussion
2. Updated transparency propositions based on the input received from MPP and EFET
 - TSOs started preparing an updated transparency proposition based on the input received from MPP and EFET
3. Main new transparency propositions initiated by TSOs
 - Publication of planned change of seasonal rating at Hub-level
 - Publication of planned changes in External Constraints``

Transparency proposal and dialogue for transparency measures within CWE region

Description of the process to perform future impact assessment (1/3)



TSO experts selected a set of 10 BD's resembling as many BD's possible of the period 01/01/2014 to 07/08/2015, via a K-MEANS algorithm, looking at the shape of the FB domains.

- ▶ Afterwards, the description of the 10 FB domain clusters was done following the indicators below Wind & Solar infeed Germany:
 - ▶ Wind & Solar infeed
 - ▶ Min/Max load France
- ▶ See ANNEX for more details on the outcomes of the assessment*

	Characterization	Best reflecting BD	Representing amount of days
FB Domain Cluster 1	Summer day with high solar, low wind and low demand	02/08/14	55 days
FB Domain Cluster 2	Day with low solar, average wind and average demand	06/10/14	29 days
FB Domain Cluster 3	Day with high solar, average wind and average demand	28/03/14	14 days
FB Domain Cluster 4	day with low solar, high wind and average demand	11/01/14	16 days
FB Domain Cluster 5	No correlation with renewable infeeds	30/09/14	26 days
FB Domain Cluster 6	day with average solar, very high wind and average demand	24/12/14	9 days
FB Domain Cluster 7	Summer day with high solar and low demand	16/07/15	46 days
FB Domain Cluster 8	Average day	07/01/15	138 days
FB Domain Cluster 9	Winter day with low solar, low wind and high demand	04/02/15	84 days
FB Domain Cluster 10	day with high solar, average wind and low demand	30/06/14	131 days

* Note: investigation ongoing whether some clusters have a strong correlation to maintenance to update characterization

Transparency proposal and dialogue for transparency measures within CWE region

Description of the process to perform future impact assessment (2/3)



CWE Project partners have defined a standard approach to analyze future significant changes that could occur in the CWE region

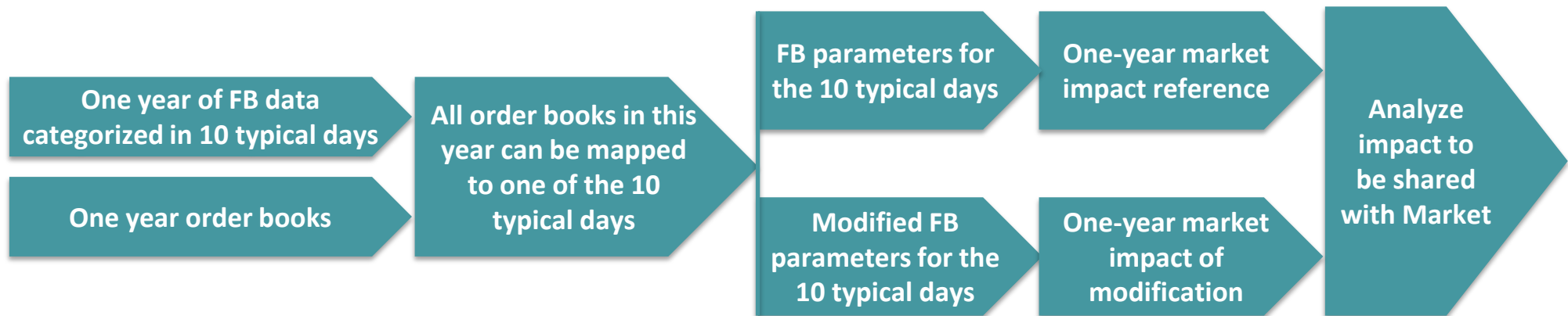
- ▶ The general idea of this approach is to sort days of the year into categories and find relevant days which could represent the most each category based on historical data i.e. typical days.
- ▶ In case of changes, these typical days can be altered in accordance (e.g. adding a line) to perform simulations based on this.
- ▶ Finally, the results of the simulations will be analyzed through several network and market indicators

For instance, CWE experts selected the following indicators to perform the BEDELUX impact assessment:

- ▶ Market price indicators (price convergence, price spreads, price volatility)
- ▶ PRBs indicators (number of PRBs, magnitude of delta P)
- ▶ Market clearing volumes (max executed {supply, Demand})
- ▶ Net positions
- ▶ Welfare
- ▶ Congestion income



The below process illustrates the main steps to complete the impact assessment, from the definition of the scope of the study to the final analysis shared with market parties:



► What is Market Parties feedback and suggestions on the above proposal ?

Appendix

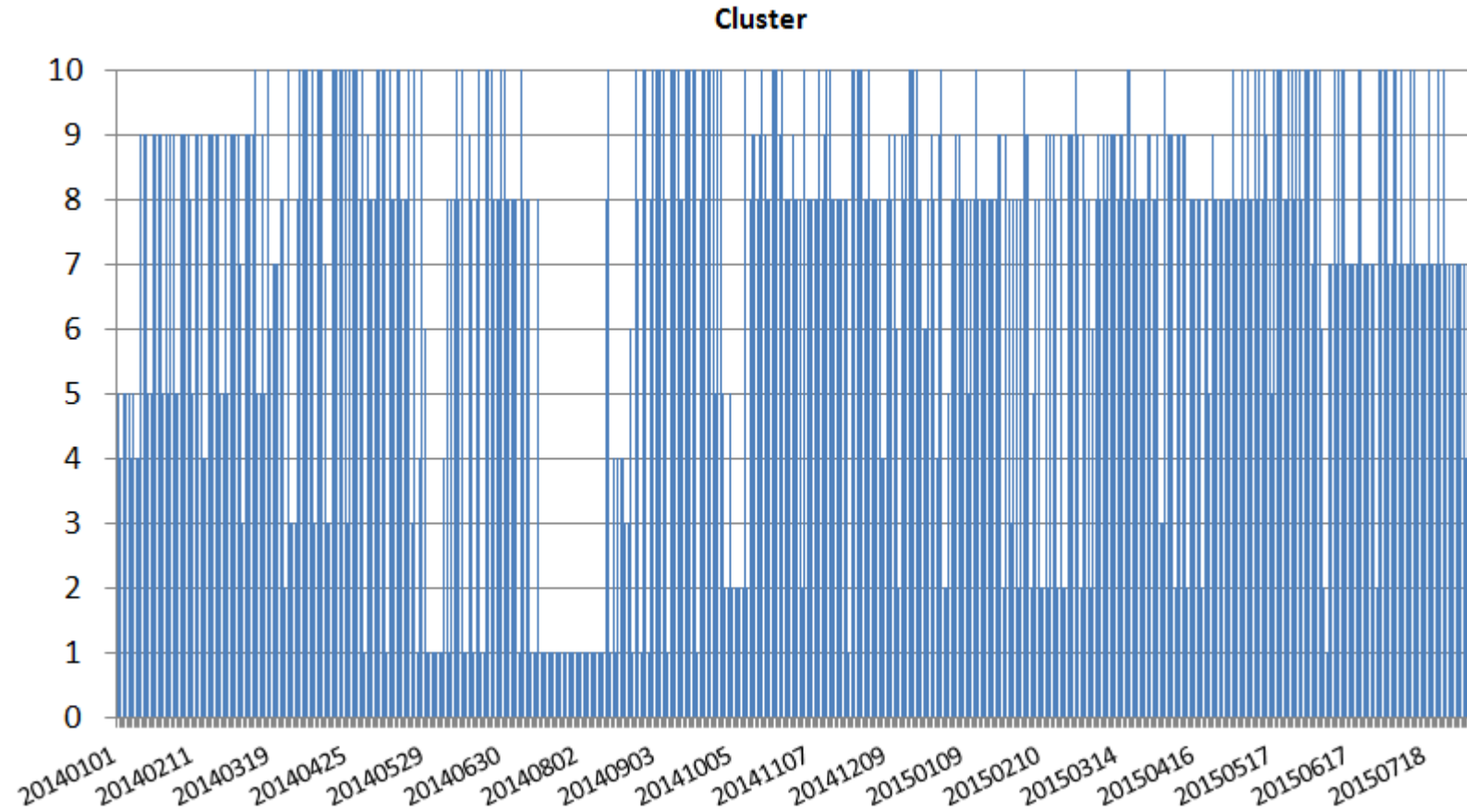


CCG Request – General approach for impact assessment



Typical days description

The distribution of the clusters from 01/01/2014 to 07/08/2015



CCG Request – General approach for impact assessment



Typical days description

Cluster 1 – Summer day with high solar, low wind and low demand – **02/08/2014**
55 days

MW	Mean wind	Mean solar	Mean EE total	Mean Max Load FR	Mean Min Load FR
Cluster 1	3 180	5 739	8 919	49 589	34 641
02/08/2015	2 029	5 951	7 980	45 551	32860

CCG Request – General approach for impact assessment



Typical days description

Cluster 2 – day with low solar, average wind and average demand – **06/10/2014**
29 days

MW	Mean wind	Mean solar	Mean EE total	Mean Max Load FR	Mean Min Load FR
Cluster 2	7 396	2 758	10 154	66 042	50 066
06/10/2014	6 127	3 342	9 468	56 686	35 273

CCG Request – General approach for impact assessment



Typical days description

Cluster 3 – day with high solar, average wind and average demand – **28/03/2014**
14 days

MW	Mean wind	Mean solar	Mean EE total	Mean Max Load FR	Mean Min Load FR
Cluster 3	8 235	4 545	12 780	63 076	47 379
28/03/2014	4 758	4 821	9 580	67 987	54 417

CCG Request – General approach for impact assessment



Typical days description

Cluster 4 – day with low solar, high wind and average demand – **11/01/2014**

16 days

MW	Mean wind	Mean solar	Mean EE total	Mean Max Load FR	Mean Min Load FR
Cluster 4	10 538	2 771	13 309	61 821	45 642
11/01/2014	12 361	870	13 231	66 059	52 178

CCG Request – General approach for impact assessment



Typical days description

Cluster 5 – no correlation with renewable infeeds – **30/09/2014**

26 days

MW	Mean wind	Mean solar	Mean EE total	Mean Max Load FR	Mean Min Load FR
Cluster 5	9 318	2 442	11 760	66 453	50 642
30/09/2014	1 169	2 150	3 320	55 323	37 055

CCG Request – General approach for impact assessment



Typical days description

Cluster 6 – day with average solar, very high wind and average demand – **24/12/2014**
9 days

MW	Mean wind	Mean solar	Mean EE total	Mean Max Load FR	Mean Min Load FR
Cluster 6	14 577	3 378	17 955	63 003	46 045
24/12/2014	22 661	762	23 423	66 752	53 118

CCG Request – General approach for impact assessment



Typical days description

Cluster 7 – Summer day with high solar and low demand – **16/07/2015**

46 days

MW	Mean wind	Mean solar	Mean EE total	Mean Max Load FR	Mean Min Load FR
Cluster 7	8 487	5 598	14 084	55 390	37 971
16/07/2015	1 565	7 375	8 940	58 099	39 076

CCG Request – General approach for impact assessment



Typical days description

Cluster 8 – Average day – **07/01/2015**

138 days

MW	Mean wind	Mean solar	Mean EE total	Mean Max Load FR	Mean Min Load FR
Cluster 8	6 982	3 485	10 467	61 544	45 331
07/01/2015	8 944	687	9 631	81 938	62 904

CCG Request – General approach for impact assessment



Typical days description

Cluster 9 – Winter day with low solar, low wind and high demand – **04/02/2015**

84 days

MW	Mean wind	Mean solar	Mean EE total	Mean Max Load FR	Mean Min Load FR
Cluster 9	5 954	2 585	8 540	71 309	54 186
04/02/2015	1 729	1 263	2 992	89 734	69 757

CCG Request – General approach for impact assessment



Typical days description

Cluster 10 – day with high solar, average wind and low demand – **30/06/2014**

131 days

MW	Mean wind	Mean solar	Mean EE total	Mean Max Load FR	Mean Min Load FR
Cluster 10	6 075	4 507	10 582	56 744	39 989
30/06/2014	2 029	5 951	7 980	53 396	33 992