# Market Network Codes CACM

2<sup>nd</sup> SEM RA/TSO Stakeholder Forum

Mark Lane

4<sup>th</sup> April 2013



## Top 8 issues in CACM NC

- 1. Capacity Calculation for DA & ID
- 2. Bidding Zones
- 3. Redispatching & Countertrading
- 4. DA market & Price Coupling
- 5. ID market & Continuous Trading
- 6. Firmness
- 7. Regional Auctions
- 8. SEM 2016 derogation

### CACM - Update

- ACER recommendation to EC 14 March
- ENTSO-E response to EC 18 March
- Areas of broad agreement:
  - RA approvals, Bidding Zones, Consultation, NC
     Objectives, Cost Recovery etc
- Areas where broad agreement not reached
  - Capacity Calculation, Deadlines for
     Implementation, Intraday, Redispatching &
     Countertrading

### Network Code Development – CACM

Q2 2013



**ACER Recommendation & Comitology** 

# Market Network Codes FCA

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4<sup>th</sup> April 2013



## Top 8 issues in FCA NC

- 1. Capacity Calculation for LT
- 2. Bidding Zones
- 3. Determination of Capacity Splitting across timeframes
- 4. Risk Hedging Options PTRs with UIOSI, FTRs, CfDs
- 5. Single Platform for Primary/Secondary Trading
- 6. Regional Platforms
- 7. European Harmonised Auction Rules
- 8. Firmness

### FCA Update

- ENTSO-E MC approval on 27 February
- ENTSO-E Assembly approval on 21 March
- ENTSO-E starts Public Consultation 28 March
- SAG Bilaterals (eg ACER, Eurelectric, EFET, EuroPex) April/May
- FCA 1<sup>st</sup> Public Workshop on 8 May, register by 26 April
- SEM FCA Workshop mid-May (TBD)
- Deadline for Public Consultation 28 May

DT now working on:

- Capacity Calculation for LT
- Firmness

### Network Code Development – FCA

Q2 2013





Step 4

### Harmonised European Auction Rules

- New working group to assess feasibility on harmonising European auction rules
- One SPOC per region
  - CWE (BE, FR, DE, LU, NL, CH)
  - CEE (AT, CZ, DE, HU, PL, SK, SI)
  - CSE (IT, FR, DE, AT, SI, CH, GR)
  - SWE (ES, PT, FR)
  - FUI (FR, UK, IE)
  - Baltic (EE, LV, LT)
- Bulgaria, Romania & Croatia allowed one SPOC each
- Non-ENTSO-E ICs allowed one SPOC = BritNed
- SPOC for FUI region = EWIC
- 1<sup>st</sup> SPOC meeting on 9 April

# Thank You



## Market Network Codes

# **Electricity Balancing**

4<sup>th</sup> April 2013

Conor Kavanagh



## **Overview of Network Codes**





### Market Based Codes

- Capacity Allocation and Congestion Management was the first market code to be developed
- Followed by Forward Capacity Allocation
- And Electricity Balancing .
- All market related codes tie into transparency regulation
- Day Ahead & Intra Day are closely linked to the EC Governance Guideline
- FCA has links to MIFID

These codes have direct links to others;

- EB to all connection codes
- Also to LFCR operational code
- Capacity Calculation links to both OS and OPS

### Scope NC LFC&R & EB NC

# NC LFC&R: Technical Determine required volumes and distribution of reserves to ensure operational security • Dimensioning of reserves • Dimensioning of reserves • Technical limits for exchange, sharing and cross-border activation of reserves Technical requirements to ensure safe exchange / sharing / cross-border activation of reserves

- Need for available transmission capacity
- Fall-back solutions,...

### **NC Electricity Balancing:**

### Market

Provisionofrequiredreservevolumes(withinthelimitsfordistributionset by NC LFC&R)

**Optimized activation** of reserves (energy) available in the system

Mechanisms to ensure the available transmission capacity for sharing / exchange / XB activation of reserves



## Order of Work

Decided By EC	Through a 'Priority List' agreed upon through consultation	
		• <u>Accessed here</u>
Influenced by and informs	ENTSO-E's 3 year work plan	
	•	<u>Accessed Here</u>
Therefore Current Network Codes Developed in this order	RfG	Requirement for Generators
		+
	CACM	Capacity Allocation and Congestion Management
	DCC	Demand Connection Code
	00	
	US	Operational Security
	OPS	Operational Planning and Scheduling
	013	
	LFCR	Load Frequency Control and Reserves
	FCA	Forward Capacity Allocation
	EB	Electricity Balancing
	HVDC	High Voltage Direct Current Connection requirements

### Tentative Timeline for submission of EB NC



### **Overview of Electricity Balancing NC**

**Purpose:** To define rules for the development, implementation and operation of a pan European balancing market.

**Status**: Initial draft produced and stakeholder discussions ongoing.

#### **Contents:**

- The Electricity Balancing System
- Procurement of Balancing Services
- Use, Allocation & Reservation of Cross Zonal Capacity for Balancing Reserves
- Settlement
- Balancing Algorithm Development
- Reporting
- Targets & Transitional Arrangements

### Links to other codes/ areas

- LFCR Strong link with LFCR setting rules for the volume of reserves to be procured & BAL creating rules to procure them.
- CACM Overlap with capacity calculation and links to intraday markets (which close before balancing opens).
- RfG/DCC Important that connection rules are reflected in products available on balancing markets.

### **Key Concepts & Considerations**

- Activation Optimisation Function (TSO-TSO Model)
- Coordinated Balancing Area
- Must work for Central Dispatch Systems

### **TSO-TSO Model example:**



### **Coordinated Balancing Area**

 TSOs are obliged to cooperate in a so called Coordinated Balancing Area (CoBA) with one or more TSOs

- Each CoBA includes the exchange of one (or more) Standard Product(s)
- Flexibility on the way to reach the FWGL targets is ensured by not detailing which cooperation is to be done with which TSO
- Sharing and exchange of Balancing Reserves is not mandatory, but possible
- CoBAs for Balancing Reserves can be smaller than those for Balancing Energy (if established)
- Functions are performing central tasks → additional flexibility, as Code does not preclude who exercises these functions

Concept of a <u>Coordinated</u> <u>Balancing Area</u>

## **Coordinated Balancing Area**



## **General Process Overview**



## More Information

https://www.entsoe.eu/major-projects/network-code-development/electricitybalancing/

Electricity Balancing Network Code Version 1.14 on website (20<sup>th</sup> Feb 2013)

A public stakeholder workshop will be held in Brussels on Tuesday 7<sup>th</sup> May 2013, 09:45 to 17:00, which will jointly address the Network Code on Load Frequency Control and Reserves and the Network Code on Electricity Balancing.

Public consultation – Mid Summer 2013

(dates to be confirmed)

