

## PCR Status Update

Presentation to

MRC JSC — Dec 2<sup>nd</sup> 2015

ESC — Dec 3<sup>rd</sup> 2015

















## Agenda

- Approach for further Euphemia developments
- Cost recovery of further PCR developments
- PCR Memberships update



### **Approach for further Euphemia Developments**

#### **Context:**

- Stakeholders of the PCR Day Ahead Market Coupling expressed some questions and concerns about the functioning of the Euphemia algorithm
- PCR permanently invests in performance increase by developing new releases. Further performance increase of the Euphemia algorithm must be anticipated:
  - The diversity of the combined product portfolio's combined with the growing size
    of the order books in the coupled MRC area is increasing the complexity
  - Growth of number of bidding zones must be anticipated
  - Market coupling process constrains the available time for the algorithm calculation
- PCR wishes to be a responsible, transparent and trusted solution provider for the European Day Ahead Market Coupling and wishes to assure:
  - Clarification of the design choices followed for Euphemia and their consequences
  - Insight in the performance evolution of the current Euphemia algorithm
  - Continuous improvement
- Therefore PCR initiated a process to define next steps of the Euphemia developments and to keep the stakeholders informed



### **Approach for further Euphemia Developments**

### **Proposed way forward**

- PCR is continuously monitoring the current performance issues of Euphemia and investigated the concerns. Some of these concerns were taken on board in EUPHEMIA 9.3 released on 26<sup>th</sup> October 2015.
- PCR asked its algorithm provider nSide to propose new design options to address the remaining concerns and to further improve performance of the Euphemia
- Nov 20<sup>th</sup> 2015 a specific workshop was held with the experts where the concerns, the options and their feasibility were discussed in detail. Some proposed performance measures are incremental, some are more radical
- In the decision process about the future developments, we must be aware of:
  - The anticipated evolutions of the market and the coupled regions
  - The fact that some of the possible design options still need further R&D to prove their effectiveness
  - The cost of the further developments and R&D
- PCR wishes to present an overview of the design options to its stakeholders in a dedicated stakeholder forum



### **Approach to further Euphemia Developments**

### Concept of the PCR Stakeholder Forum

Date: January 11<sup>th</sup> 2016

**Venue:** Brussels Airport Sheraton Hotel

### **Envisaged Participants:**

 Representatives of the PCR stakeholders (NRAs, TSOs, MPs, Associate Members) with competency to participate in the debate about the design of the Euphemia algorithm (80 participants on site – max. 2 per party - online broadcasting will be facilitated)

### Focus: Next steps in the Euphemia Development

- Inform the Stakeholders about current status, performance and improvement areas of Euphemia
- Explain and discuss the way forward for the further development of Euphemia
- Structured process to receive suggestions/feedback from the stakeholders via the respective interest groups after the forum



## Agenda Stakeholder Forum Jan 11th

09.00: Conference Room accessible

10.30: Registration and welcome coffee

### 11.00: Introduction of the topic by the PCR Chair /Start online broadcasting

- Current status PCR
- Recap and acknowledgement of the concerns expressed by the stakeholders regarding Euphemia
- Purpose of the day

# 11.15: Overview of the current concept and requirements of the algorithm (goal = explanation of the concerns versus the complexity to deal with)

- Proactive tackling of known questions: Overview of the current top concerns expressed by the stakeholders (equal treatment of different size of bids and market areas, numerical instability, PRBs, Optimization function and optimality gap, ...)
- Diversity product types per area, Number of areas
- FB/ATC
- Heuristics principles consequences of the chosen heuristics
- Any available results from the current nSide research



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## Agenda (ctd)

#### 12.15: Overview of Performance measurements

(goal = explain the results of the coupling so far and overview of the progress areas)

- Objective performance data:
  - · Time to first solution
  - Number of solutions
  - Increase of welfare after computation time extension
  - Number of PRB
  - DeltaP
  - Time spent in each submodule
- Release history of Euphemia until today Euphemia 9.3 (goal = show the continuous improvement measures that PCR has taken regarding performance)
- Overview of the future progress areas for the algorithm

### 13.00 : Walking Lunch Buffet

#### 14.00 : Next development steps for the Euphemia algorithm

- Overview and progress of the ongoing research goals and initiatives in PCR with nSide
- Euphemia Release planning for 2016
- Introduction for the structured feedback from the representative groups

15.00: Coffee Break

15.30: Q&A - debate

16.15: Recap of the day and closing word by the PCR Chair

16.30 : End



### Cost recovery of further PCR Development

CACM implementation influences the cost management of the future developments in PCR

### This implies that:

- PCR needs to receive recognition as the future day-ahead market coupling solution according to the CACM
- Cost recovery and cost sharing for further developments must also be ensured according to the CACM guidelines

#### Therefore:

PCR parties have sent a letter to ACER on November 13th 2015 requesting comfort about these subjects

## **PCR Membership Update**

### **Evolution of the PCR Memberships**

#### **New Full PCR Memberships:**

- TGE has signed the adherence agreements to PCR co-operation and coownership agreements and finalizing the payment process of historical cost.
- OPCOM finalizes the signature process of its adherence agreement to PCR

### New serviced PXs, also becoming associated PCR members:

- NPS will start to service IBEX with the PCR MRC solution
- NPS will start to service CROPEX with the PCR MRC solution
- EPEX will start servicing SEEPEX with a separate instance of Euphemia



# Thank you - Q&A

