

WG Adequacy #6

10.03.2022

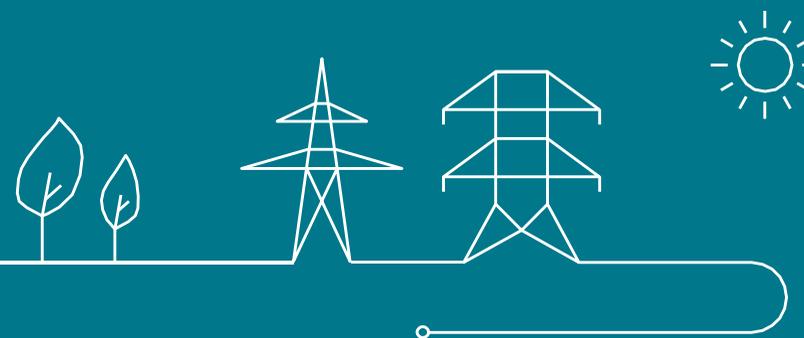


Agenda

- Welcome
- Approval Minutes of Meeting WG Adequacy #5 (17.02.2022)
- Launch Public Consultation Contract 11.03.2022
- Session on Availability Monitoring
- Next meetings



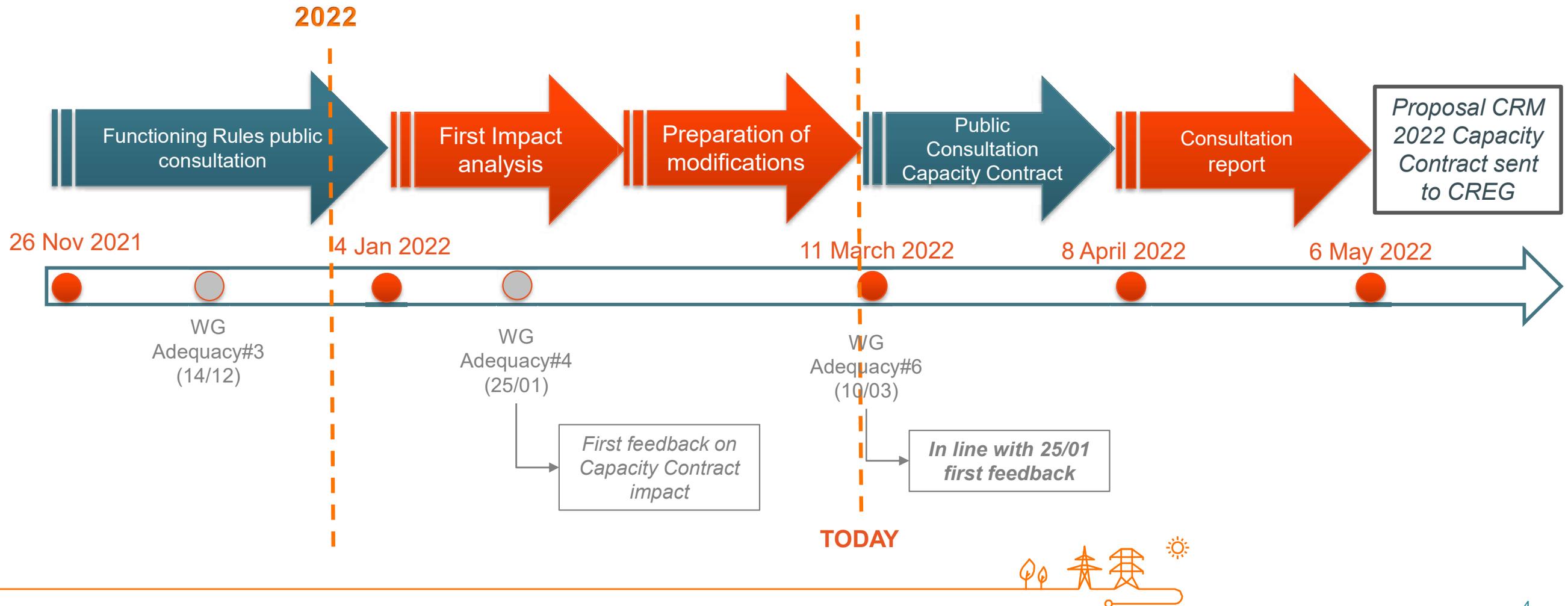
Launch Public Consultation Contract 11.03.2022



CRM 2022 Capacity Contract - timeline

Context: After the Functioning Rules public consultation and its update, the impact analysis on the Capacity Contract shows rather limited changes

→ An updated CRM Capacity Contract proposal is ready for Public consultation starting in March 2022



CRM 2022 Capacity Contract – impact analysis

Based on the Functioning Rules changes proposal and feedback, Elia assessed that:

- Limited comments lead to changes in the Capacity Contract → Marginal / intrinsic adjustments on the capacity contract
- Limited to precisions in the same scope

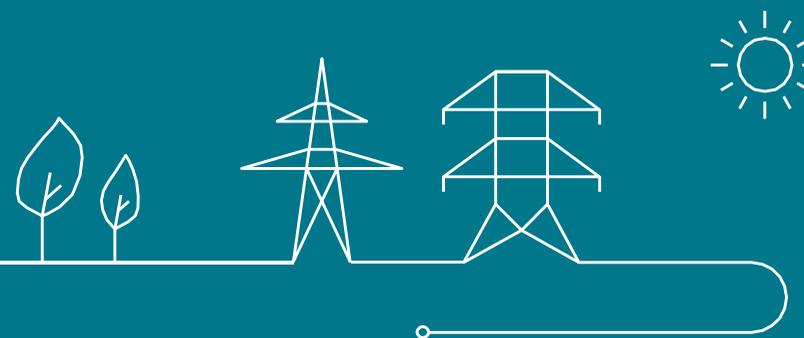
Modifications:

- Transversal: wordings, rephrasing and definitions (e.g. 'Financial Penalties' associated to the Pre-Delivery Period)
- Transversal: cross references with Functioning Rules adaptations
- Prior Art1: Precision on the financing modification following the recent decision on Art 7 undecies § 15 (tarifs >> accises)
- Art7: Responsibility
 - Few precisions in the text but not changing the scope
- Annexes: intrinsic modifications

- CRM Capacity Contract Public Consultation starts on 11/03/2022
- 'TaskForce CRM' mail communication when the NL/FR/EN(supportive version) are available on the Elia webpage:
 - Track changes and Clean versions will be available
- Feedback to be provided by 08/04/2022 end of business day



Session on Availability Monitoring



Introduction

- Availability Monitoring serves to ensure the availability of the CMU's Contracted Capacity during the Transaction Period
- Short list of concepts:
 - Available Capacity: the CMU's capacity that is observed/confirmed as a result of the Availability Monitoring
 - Obligated Capacity: the capacity a CMU is obliged to make available as Available Capacity
 - AMT Hour: hour identified by the Availability Monitoring Trigger, during which the DA market price exceeds the AMT price
 - AMT Moment: a series of consecutive AMT Hours
- A hypothetical AMT price of 110 €/MWh is assumed
- Disclaimer: this use case was constructed in alignment with the most recent proposal of the Functioning Rules by Elia; in case of inconsistency, the Functioning Rules prevail



CMU A

NRP: 800 MW

- Daily Schedule
- Non-Energy Constrained

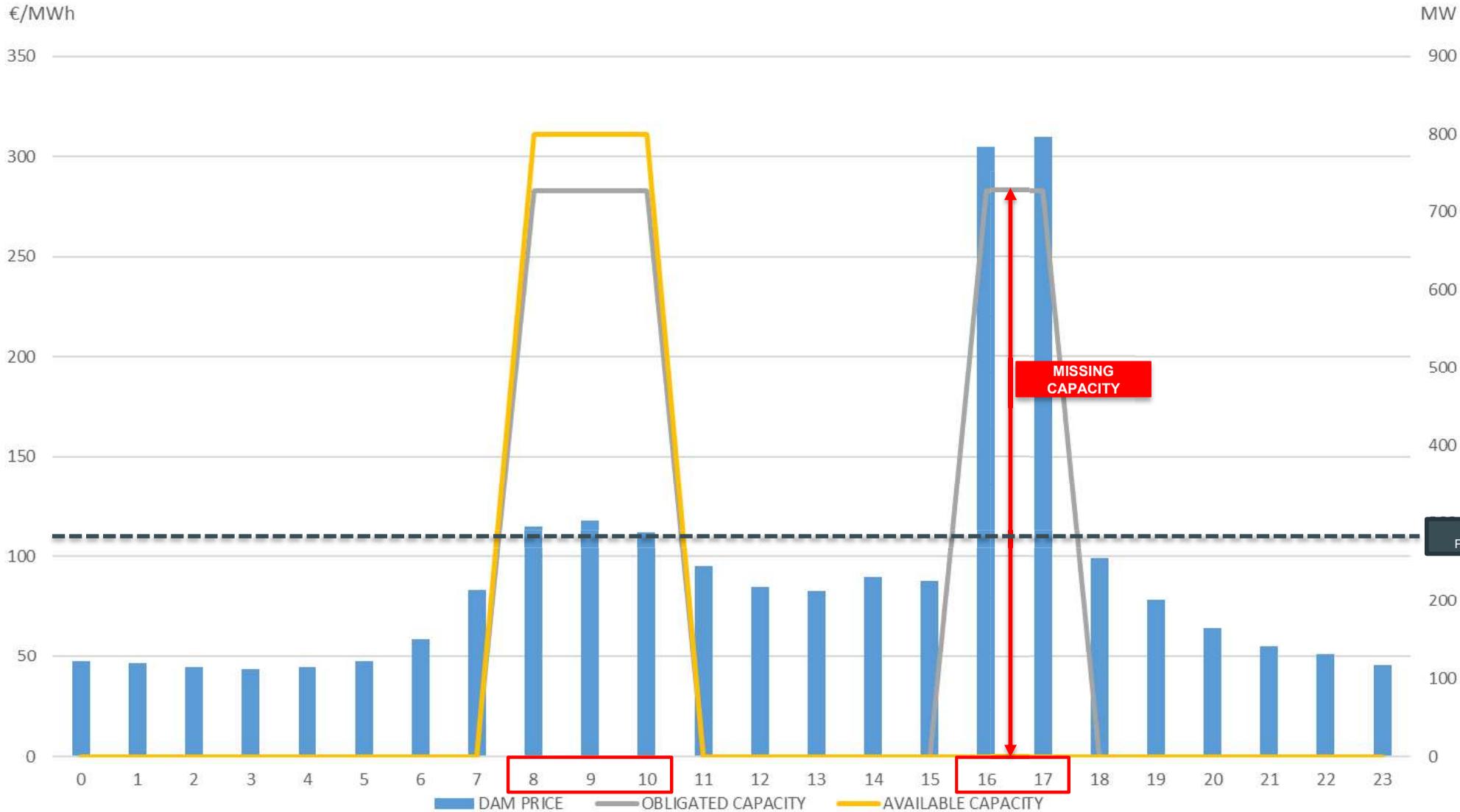
- Transactions:

Market	Contracted Capacity [MW]	Derating Factor (%)
Primary	728	91

- Obligated Capacity is equal to the Total Contracted Capacity: 728 MW
- Available Capacity is equal to the last P_{max} stated in the CMU's Daily Schedule



CMU A – availability throughout example winter day (12/12/2025)



- Two AMT moments occur
- CMU A is available during the first AMT moment → no penalty
- CMU A is not available during second AMT moment → Missing Capacity

AMT Moment

CMU A – Announced Unavailable Capacity

- A CMU can alert ELIA of an unavailability
 - Forced outages, planned maintenances, ...
- If a Missing Capacity is determined, ELIA establishes an Announced Missing Capacity or an Unannounced Missing Capacity based on whether it was notified sufficiently in advance (11:00 in DA)

➔ Announced Missing Capacity leads to a reduced penalty factor

NOTIFICATION_ID	CMU	NOTIFICATION_DATE	NOTIFICATION_TIME	Remaining Maximum Capacity	START_DATE	START_TIME	END_DATE	END_TIME
2CMU_A		15/12/2025	12	0	12/12/2025	11	12/12/2025	23

After deadline of 11:00 CET the day before!
=> results in Unannounced Missing Capacity



CMU B

NRP: 100 MW

- Daily Schedule
- Energy Constrained: SLA 4 hours

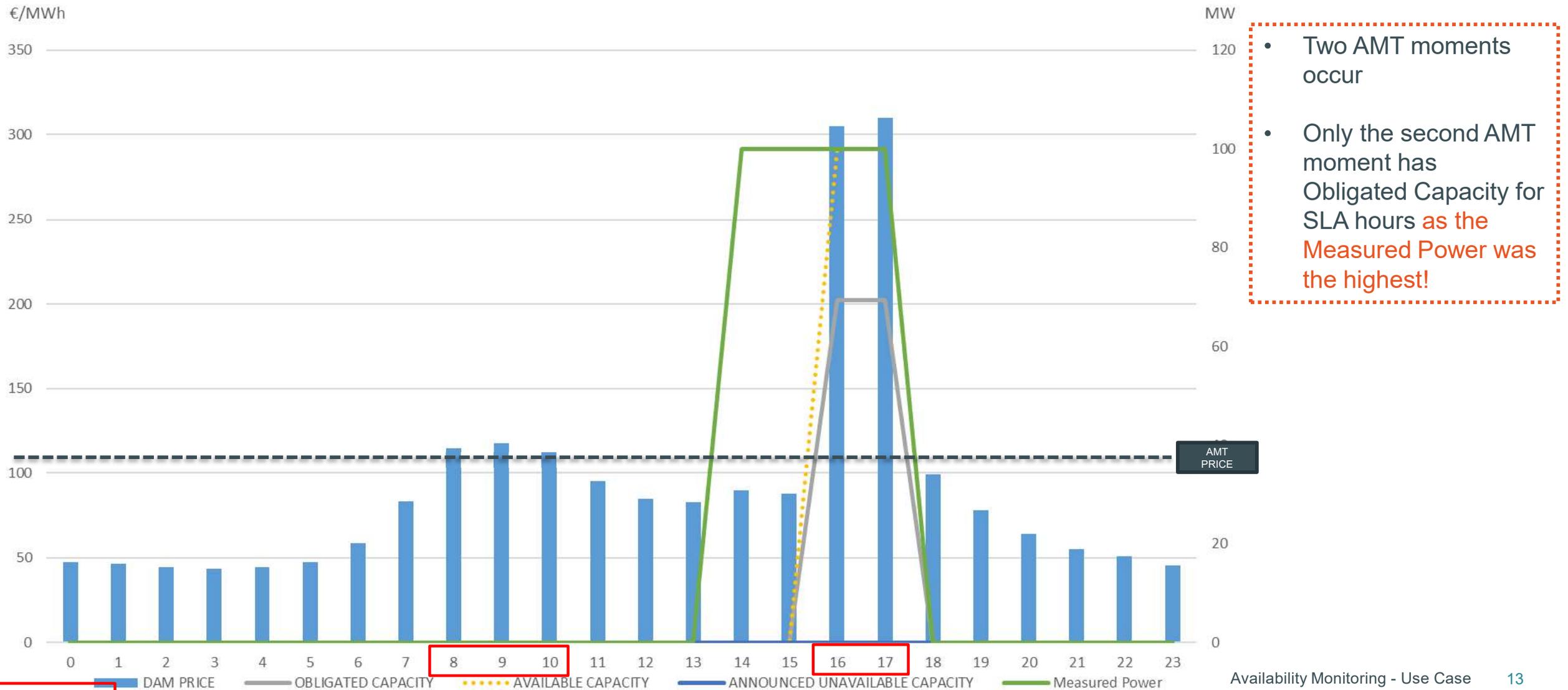
- Transactions:

Market	Contracted Capacity [MW]	Derating Factor (%)
Primary	25	36

- Obligated Capacity is equal to the Total Contracted Capacity divided by Derating Factor: 69,44 MW
 - This Obligated Capacity does not apply to all AMT moments, only at the identified SLA hours!
- Available Capacity is equal to  the last P_{max} stated in the CMU's Daily Schedule (if during SLA hours)
the Measured Power during the AMT hour (if outside SLA hours)



CMU B – availability throughout example winter day (12/12/2025)



- Two AMT moments occur
- Only the second AMT moment has Obligated Capacity for SLA hours as the Measured Power was the highest!

AMT Moment

CMU B – multiple Transactions

- A CMU can be bound by multiple Transactions, and their Availability Obligations
- Transactions:

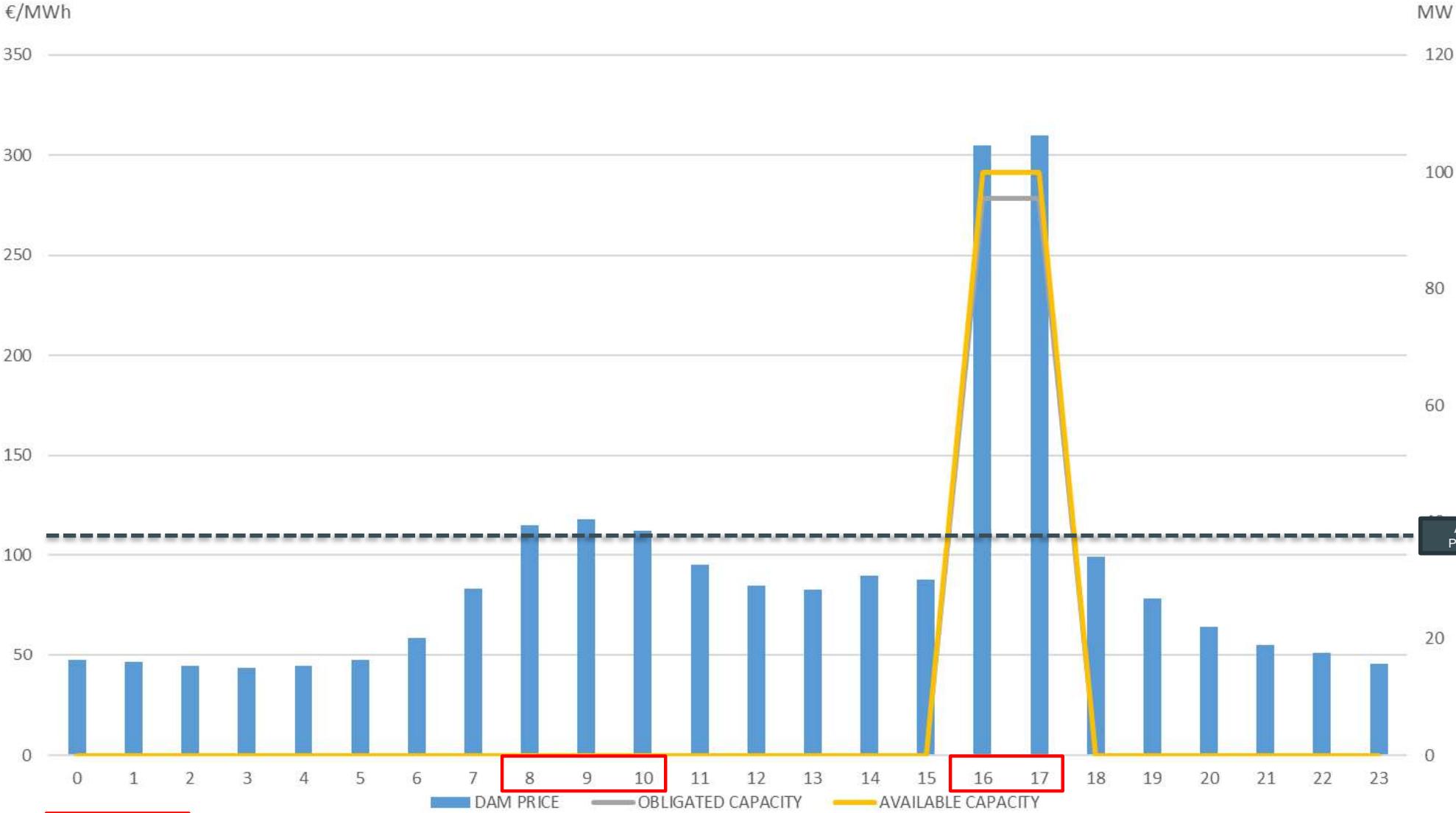
TRANSACTION ID	MARKET	CMU	CONTRACTED CAPACITY [MW]	TRANSACTION_ START DATE	TRANSACTION_ END DATE	TRANSACTION_ VALIDATION DATE	DERATING FACTOR
aaaaaa000001	Primary	CMU_B	25	01/11/2025	31/10/2041	31/10/2021	0,36
aaaaaa000004	Primary	CMU_B	40	01/11/2026	31/10/2027	31/10/2022	0,68

The Derating Factor(CMU,t) updates to the Derating Factor of the most recent Transaction!

- *Derating Factor(CMU, t) = 0,68*
- *Obligated Capacity_{SLA} = 95 MW*



CMU B – availability throughout example winter day (12/12/2026)



- Two AMT moments occur
- Only the second AMT moment counts as SLA hours
- By accepting the second Transaction, CMU B has increased the Obligated Capacity to 95 MW!

AMT Moment

CMU C

NRP: 12 MW

- No Daily Schedule
- Non-Energy Constrained

- Transactions:

Market	Contracted Capacity [MW]	Derating Factor (%)
Primary	7,44	62

- Obligated Capacity is equal to the Total Contracted Capacity: 7,44 MW
- Available Capacity is derived from the CMU's declared prices



CMU C

Declared Prices and Announced Unavailabilities

Declared Prices:

CMU	NOTIFICATION_DATE	NOTIFICATION_TIME	PRICE TYPE	PRICE [€/MWh]	ASSOCIATED VOLUME [MW]
CMU_C	30/10/2025	14:00	DDAP	200	12

- Last notification counts
- Associated Volume for DDAP is equal to the NRP (12 MW)

Unavailable Capacity:

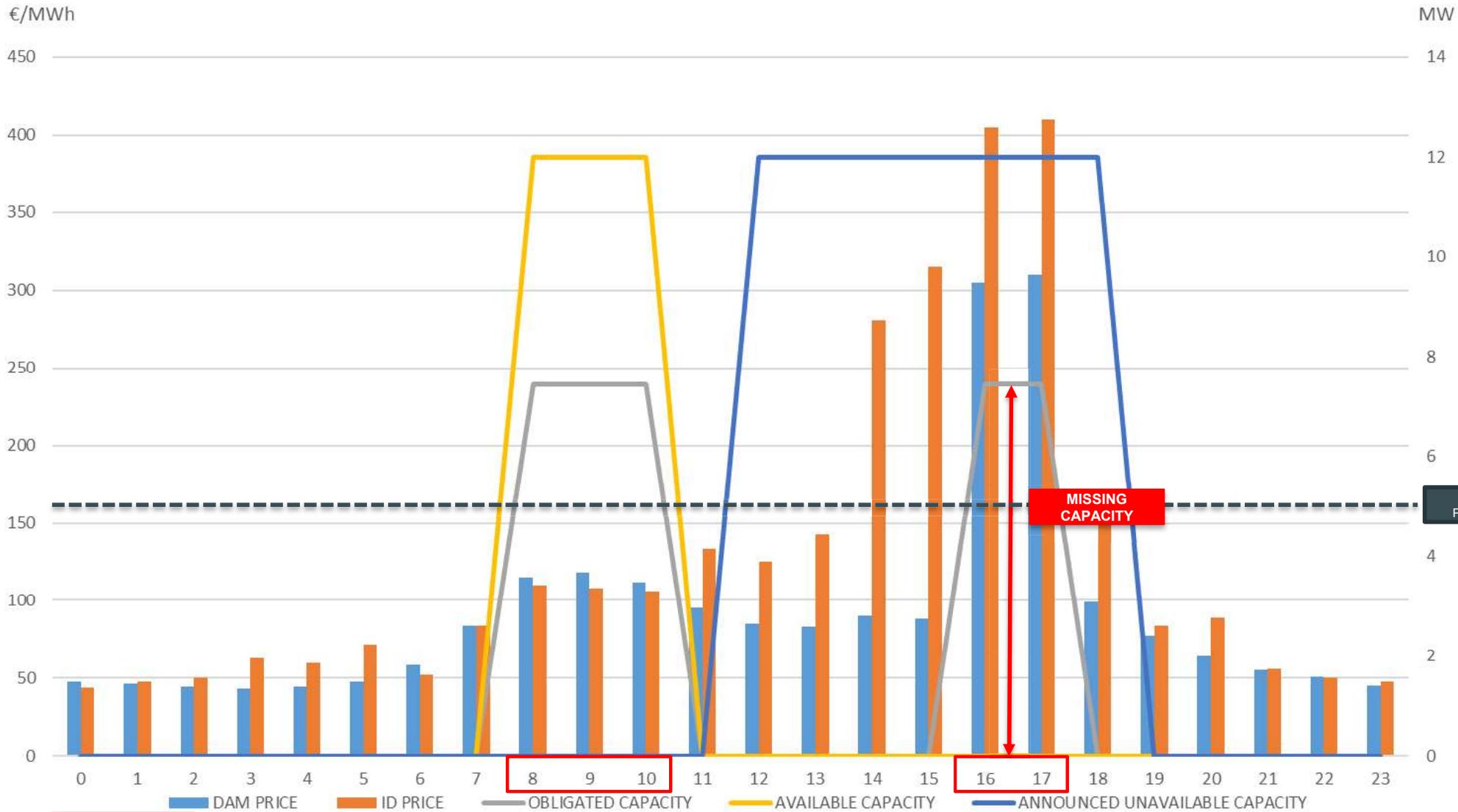
CMU	NOTIFICATION_DATE	NOTIFICATION_TIME	Remaining Maximum Capacity	START_DATE	START_TIME	END_DATE	END_TIME
CMU_C	15/11/2025	9		0	12/12/2025	12	12/12/2025 18



Before deadline of 11:00 CET the day before!
=> results in Announced Missing Capacity



CMU C – availability throughout example winter day (12/12/2025)



- CMU C is available during the first AMT Moment
- During the second AMT Moment it has notified Elia of an Announced Unavailable Capacity => **lower penalty factor**

AMT Moment

CMU D

NRP: 5 MW

- No Daily Schedule
- Energy Constrained: SLA 2 hours

- Transactions:

Market	Contracted Capacity [MW]	Derating Factor (%)
Primary	0,95	19

- Obligated Capacity is equal to the Total Contracted Capacity divided through Derating Factor: 5 MW
- Available Capacity is derived from the CMU's declared prices:
 - Measured in Remaining Maximum Capacity when no prices are surpassed ('Method 1' in FR)
 - Measured in Active Volume when they are surpassed (For both 'Method 2' and 'Method 3' in FR)
 - During payback obligation: measured as Passive Volume for "out of the money" share of capacity ('Method 3' in FR)



CMU D

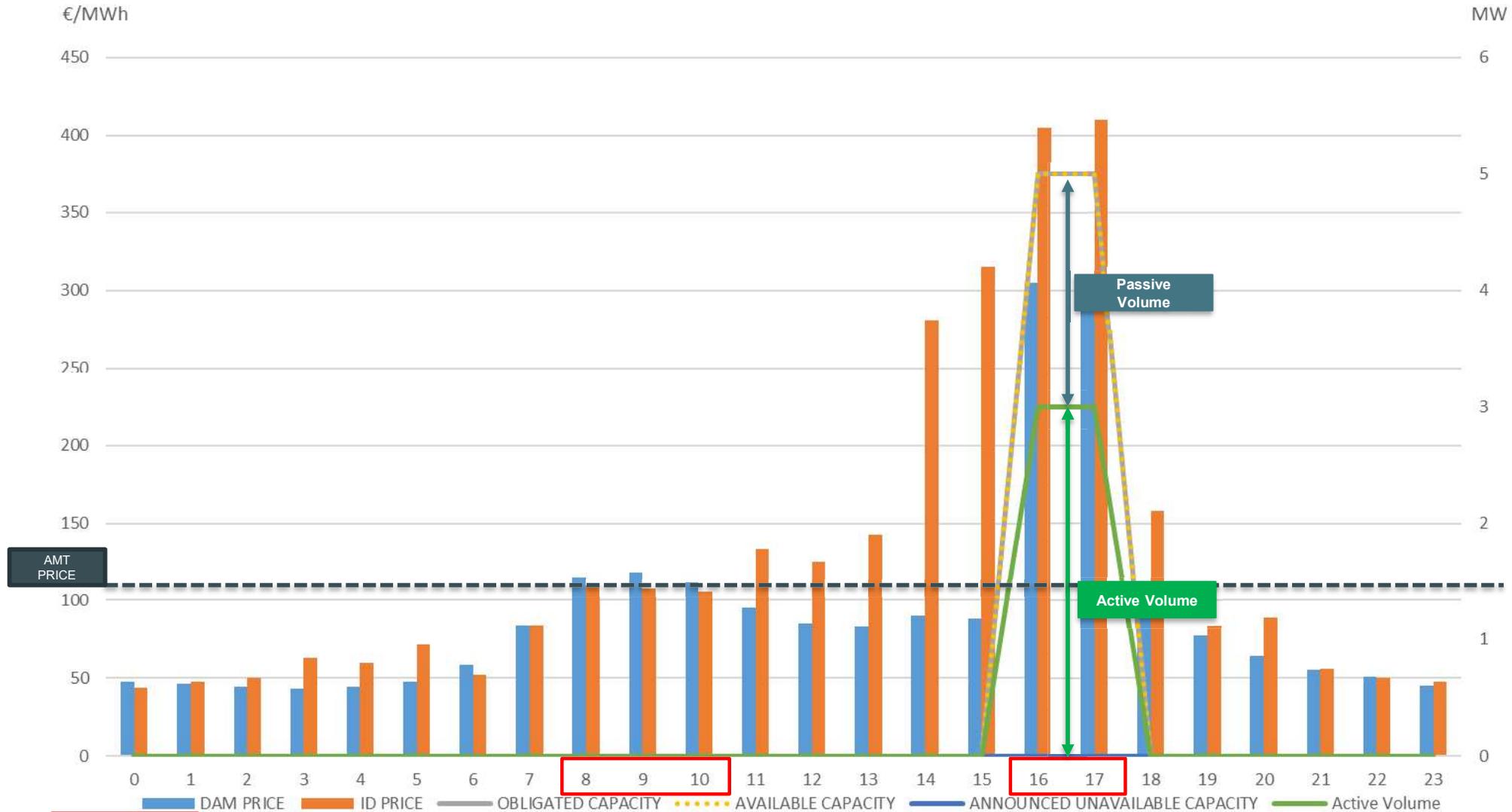
Declared Prices

NOTIFICATION_ID	CMU	NOTIFICATION_DATE	NOTIFICATION_TIME	PRICE TYPE	PRICE [€/MWh]	ASSOCIATED VOLUME [MW]
1	CMU_C	30/10/2025	14:00	DDAP	200	12
2	CMU_D	30/10/2025	16:00	DDAP	800	5
4	CMU_D	30/10/2025	16:00	DIDP	900	5
3	CMU_D	10/11/2025	13:00p	DDAP	350	3
5	CMU_D	10/11/2025	13:00p	DIDP	400	3

- Any CMU without Daily Schedule can declare prices at both DA, ID and BAL market
- Any CMU without Daily Schedule can declare prices for part of its capacity
- Latest notification counts

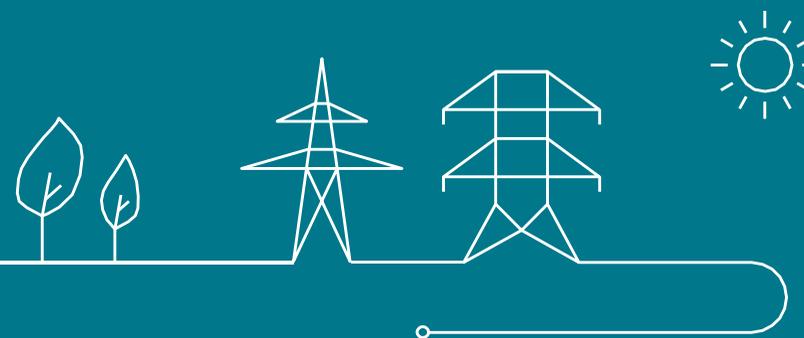


CMU D – availabilities throughout example winter day (12/12/2025)



- Since CMU D also declared prices on the ID-market, we also need to take these prices into account
 ⇒ **3 MW in response to ID price >= 400 €/MWh**
- Active Volume (from measurements) effectively shows a 3 MW reaction
- Added with the Passive Volume (non-activated part of 2 MW) Obligated Capacity and Available Capacity coincide
- Only second AMT Moment has SLA Hours as Active Volume was the highest and (partial) Declared Prices were surpassed

Next meetings



Foreseen timeslots for next meetings

- Thursday 21 April 2022 am
- Thursday 19 May 2022 pm
- Friday 17 June 2022 pm



Thank you.

