



# Analysis and Proposals for Amendment of the NEURC Resolution # 766

Kyiv, Ukraine December 10, 2020

### Draft Resolution for Decree # 766

#### **Highlights**

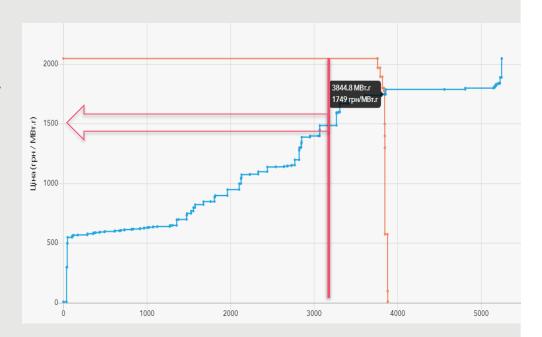
ODAM purchase obligation for network losses of TSO and DSOs reduces from 50 % to 20 %.

The bidding cap of the Guaranteed Buyer for selling renewable energy under PPAs decreases.

ONight zone bidding cap for DAM & IDM reverts to its original level, 959.12 UAH/MWh.

# DAM Purchase Obligation for Network Losses TSO and DSOs

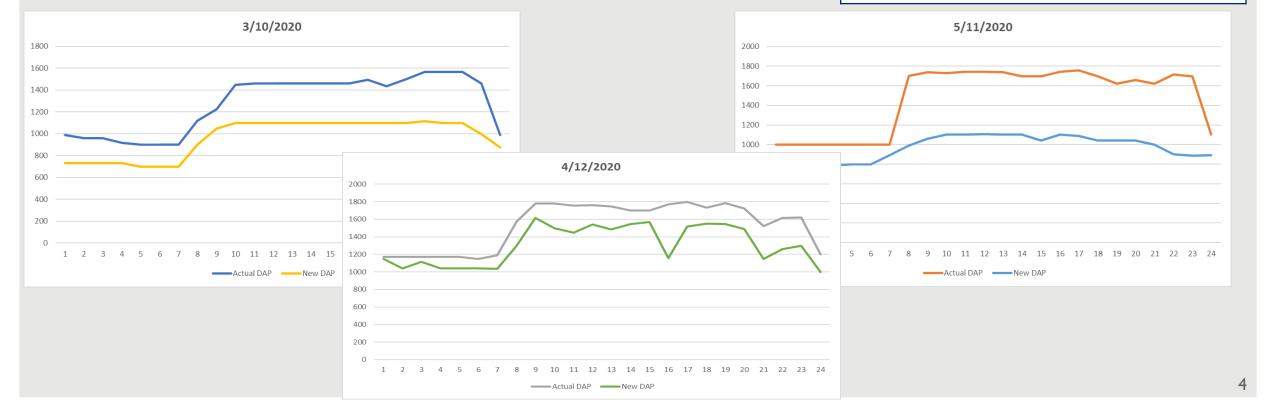
- DAM purchase obligation for losses was 80 % and decreased to 50 % (ESP recommendations dated 09/22/2020 supported the initiative but suggested a gradual decrease as opposed to the draft decision on 20 % directly)
- Recent draft resolution intends to reduce the obligations from 50 % to 20 %.
   In order to assess the impact on DAM analysis was made based on the assumptions below:
  - Average network losses in the transmission and distribution is 12,68 % (from NEURC 2019 Annual Report)
  - Supply-demand curves of 3 representative days taken (daily weighted average price close to monthly)
- The impact simulated by re-creating the supply-demand curves for DAM price (DAP) for several days.



## Impact of Decreasing the DAM Obligation for Network Losses

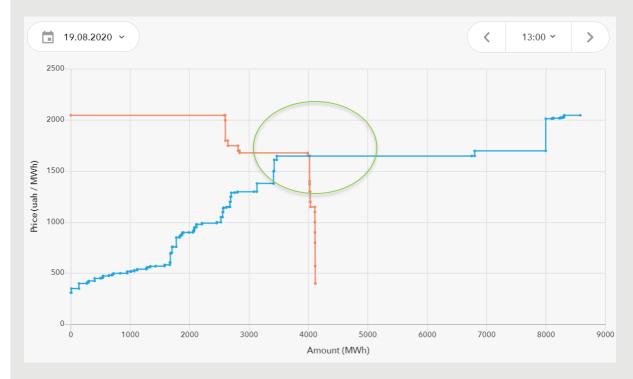
- As a result of the purchase obligation decrease (from 50 % to 20%), DAP likely to decrease
  - Decrease on 04.12.2020 at 13:00 would be around 250 UAH/MWh, assuming that demand curve is shifted while supply remains stable, implying part of existing surplus in the system is streamlined to TSO and DSOs via bilateral contracts. Actual decrease likely to be less.
- The decrease in weighted average DAP to reach up to 35%, relieving the price pressure on consumers while possibly increasing the stress on generators at DAM.

Price		10/3/2020	11/5/2020	12/4/2020
DAP actual	UAH/MWh	1295.35	1514.37	1554.37
DAP 20%	UAH/MWh	974.73	984.48	1317.72
DAP Δ	UAH/MWh	-320.62	-529.89	-236.65
DAP $\Delta$	%	-25%	-35%	-15%



# Decreasing the Bidding Cap for the Guaranteed Buyer

- The proposal intends to decrease the bidding cap for the Guaranteed Buyer (GB) and guide its sales towards bilateral contracts
- During summer months, GB's deliberate strategy to keep DAP high was quite evident and allowed to maximize the revenues by being the price setter although imbalance volumes were significant (reaching up to 4 times of the volume sold at DAM&IDM). This might have looked permissible since average DAM price was still low.
- The situation is not like that anymore as renewable generation decreased and DAM prices are high. Yet, if bidding cap for GB is reverted to 10 UAH/MWh, this can affect the DAM price levels very negatively (e.g., I-I.5 GW offered at 10 UAH/MWh) while a bidding cap between I500-I600 UAH/MWh is likely to have limited effects considering current status of the market.





# Decreasing the DAM/IDM Bidding Cap for the Night Zone

- The bidding caps for night zone was increased from 959.12 UAH/MWh to 1228.94 UAH/MWh (i.e., 60 % of the day zone cap) in July 2020. USAID ESP analysis and recommendations dated June 1, 2020 had stated that "...pricing is not entirely market-driven during night hours (compared to daytime hours with similar demand levels) and is constrained through an artificially imposed restriction."
- This step improved the pricing during night hours and helped market participants (especially the Guaranteed Buyer and balancing service providers) to reach a financially sustainable level. More importantly, market price signal improved.
- Decreased night zone caps might lead to undesired price regulation and distort price formation in the market. Table below shows the significant improvement in price signals comparing old and current night zone bidding caps

Price cap	# of Hours when DAP = Bidding Cap	# of Total Night Hours for this Bidding Cap	Percentage
959.12	118	1825	6.5%
1228.94	0	1247	0.0%

• To eliminate the attractivity of the Balancing Market (BPM) and avoid possible abuses, day zone upregulation bidding caps should be linked to actual DAM prices while night zone upregulation caps might stay linked to DAM bidding caps. Also, increasing the downregulation bidding cap up to 80-90% of actual DAM prices during the quarantine could be considered.

Energy Security Project

#### THANK YOU!

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