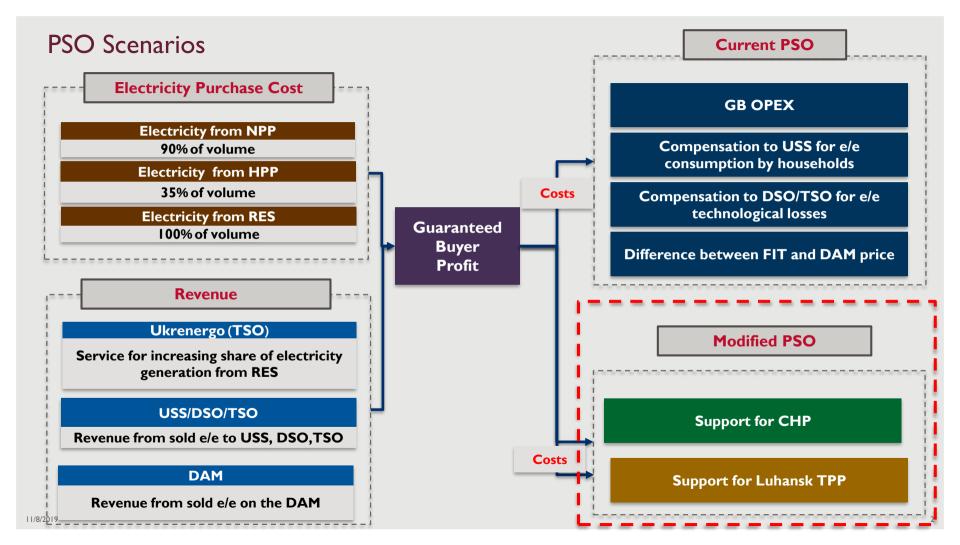


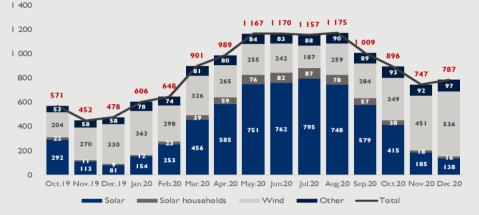
Analysis of MEEP's Proposal for Modification of the PSO

1 there

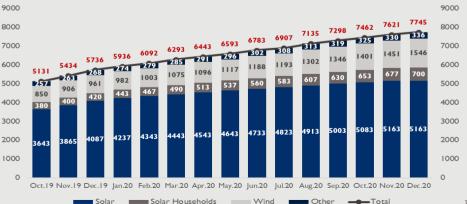


Assumptions in the financial model are based on MEEP forecasts

- I. RES generation forecast;
- 2. RES capacity forecast;
- 3. RES prices for each type of generation;
- 4. TSO tariff assumption, including RES compensation;
- 5. Exclude Luhansk TPP financing;
- 6. DM prices of UA-IPS, incl. UA-BEI*;
- 7. I5-month energy balance forecast.

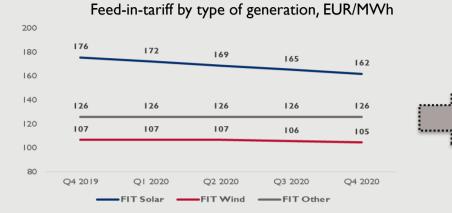


RES capacity forecast, MWh



*Burshtyn Energy Island

Assumptions in the financial model are based on MEEP forecasts



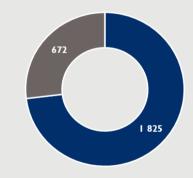
Burshtyn Energy Island DAM-ID prices, UAH/MWh





Average annual feed-in-tariff in 2020 is 4350 UAH/MWh

BEI: GB purchases for PSO, '000 MWh



Compensation of USS for households Compensation of DSO/TSO network losses

Assumptions in the financial model are based on MEEP forecasts

1 750

1 700

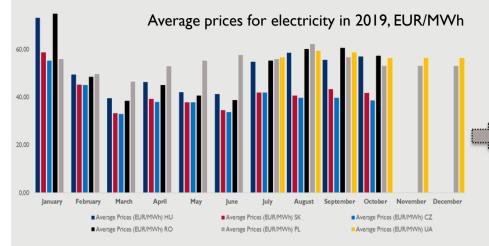
1 650

1 600

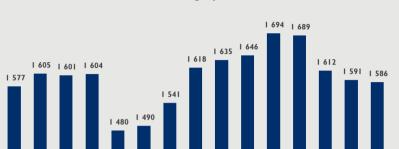
| 550 | 500

| 450 | 400

| 350

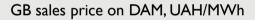


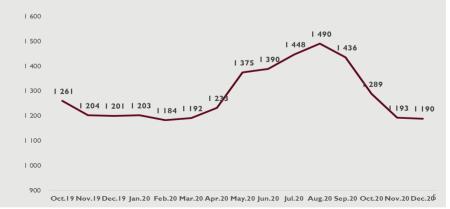
- Average DAM prices are forecasted based on analysis of European energy market;
- GB sales prices are lower than DAM prices due to specifics of the sold energy profile.



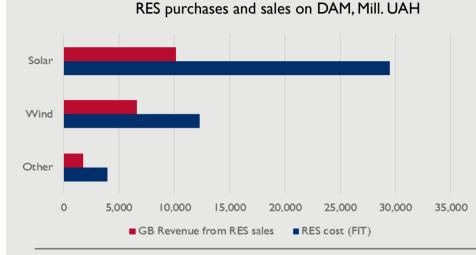
Oct.19 Nov.19 Dec.19 Jan.20 Feb.20 Mar.20 Apr.20 May.20 Jun.20 Jul.20 Aug.20 Sep.20 Oct.20 Nov.20 Dec.20

Average price on DAM, UAH/MWh





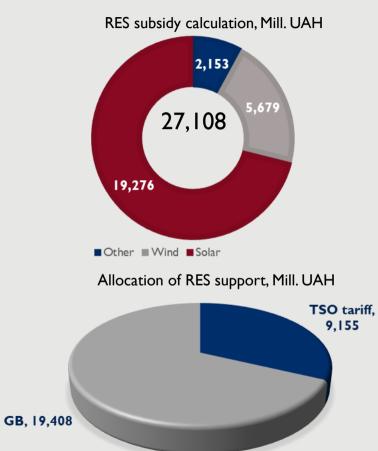
GB financial results Y 2020. Calculation of RES support



RES support, Mill. UAH

GB OPEX Total:	385 28,563
Responsibility for imbalance	1,069
RES subsidy*	27,108

* Households' RES is not included.



11/8/2019

TSO tariff structure

TSO	tariff	forecast,	UAł	H/MWh
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RES support, Mill. UAH	28,563
RES support in fixed TSO tariff	9,155
Available RES support from GB	
profit	5,956
GB deficit	13,452

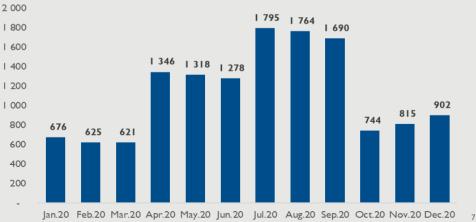
RES component in TSO tariff = GB RES support + RES households' support

GB deficit in 2020 – **13,452 bn. UAH**

RES households' support – **1,4 bn. UAH** is included in TSO tariff.



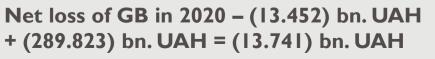
RES component UAH/MWh TSO service tariff exl. RES UAH/MWh TSO service tariff approved by NEURC UAH/MWh

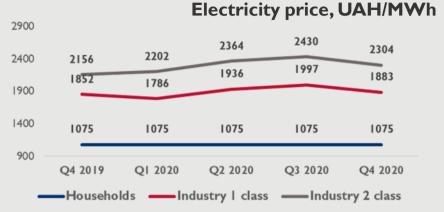


GB deficit, Mill. UAH

Scenario I – "AS-IS" - 2020: MEEP renewables forecast

Scenario	Selection
Household Tariff Scenario	Scenario I (1075 UAH/MWh for the first 100 kWh)
CHP financing	Yes
Luhansk TPP financing	No
Financing of technical losses at PSO price	8 0 %
Responsibility for imbalance	Yes
Optimization of BEI	Νο



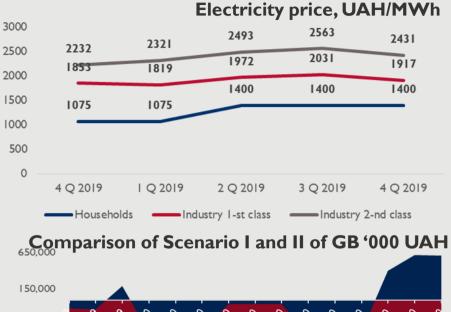


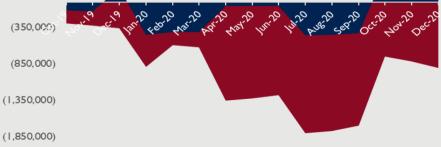
Net income (loss) of GB. '000 UAH



Scenario II- ESP proposal - 2020: MEEP renewables forecast

Scenario	Selection	
Household Tariff Scenario	Scenario 2 (w/o reduced tariff for the first 100 kWh 1400 UAH/MWh)	
CHP financing	Yes	
Luhansk TPP financing	Νο	
Financing of technical losses at PSO price	0%	
Responsibility for imbalance	Νο	
Optimization of BEI	Yes	
Net loss of GB in 2020 – (1.21) bn. UAH		





Scenario II – ESP proposal - 2020: MECI renewables forecast

Scenario	Selection	bn. UAH
Financial result of GB	Scenario I	(13.74)
Household Tariff Scenario	Scenario 2 (w/o reduced tariff for the first 100 kWh 1400 UAH/MWh)	8.38
Financing of technical losses at PSO price	0%	2.60
Responsibility for imbalance Voluntary imbalance reduction	Νο	1.02
Optimization of BEI	Yes	0.53
Financial result of GB	Scenario II	(1.21)
TSO tariff increase	On 10 UAH - 169.78 UAH/MWh (7.3%)	1.21
Financial result final		0

Recommendations

- Eliminate the reduced tariff block (first 100 kWh) and introduce program for full compensation of the tariff increase for the vulnerable customers;
- Exclude TSO and DSO technical losses from PSO;
- Propose a program for reduction of RES imbalances;
- Optimize trading in Burshtyn Energy Island to reduce DAM prices (adopt changes to balancing market pricing);
- Increase TSO tariff by 7.3 %.
- Develop and adopt a strategy for the gradual reduction and elimination of the PSO;