

Portal Uczestnika Rynku Mocy User Manual

Performance of capacity obligation – system stress event

Version: 1.0

Update history

Date	Company	Version	Update details
20.08.2025	PSE S.A.	1.0	Publication of the document

NOTE: Dates regarding capacity market processes presented in the manual are given as examples and might not correspond to the provisions of the Capacity Market Rules. Other presented values are random.

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1 TECHNICAL REQUIREMENTS

In order to use the Capacity Market Participant Portal (PURM) it is necessary to have a computer with Internet access. Detailed technical requirements are available at <https://www.pse.pl/web/pse-eng/areas-of-activity/capacity-market/purm-register>

User account establishment, logging in and managing user account is described in the *Portal Uczestnika Rynku Mocy User manual. Pre-auction process*, which is available on [the website](#).

2 INFORMATION ON ANNOUNCED SYSTEM STRESS EVENTS

Information on announced system stress events is displayed on the PURM login page and on the home page after logging in. The information is visible from the moment the system stress event is announced by PSE until the end of the last announced system stress event.

Announced system stress events

Day: 2025-06-23

The hour of system stress event	Date and time of the announcement	P _{CP} MW	P _{RM} MW	W _{NURM} MW	ΣOM _n MW	UR _{JRM} MW	α _{SOM} -
20:00 - 21:00	2025-06-23 09:03	10 000,000	1 000,000	1 000,000	20 000,000	100,000	0,5025125628
21:00 - 22:00	2025-06-23 09:04	10 000,000	1 000,000	1 000,000	10 000,000	100,000	1,0000000000

P_{CP} - the average forecasted grid demand in a given system stress event
P_{RM} - the surplus of capacity required in a given system stress event, determined in accordance with the provisions of the Instruction of Transmission System Operation and Maintenance, referred to in Article 99(4)(9) of the Energy Law Act
W_{NURM} - the average forecasted capacity to be delivered to the grid in a given system stress event by generation resources not covered by capacity obligations
ΣOM_n - sum of capacity obligations of all Capacity Market Units covered by capacity obligations in a given system stress event
UR_{JRM} - sum of unavailable capacities of Capacity Market Units during given system stress event, resulting from the events referred to in Section 16.6 of the Capacity Market Rules
α_{SOM} - the ratio determining the value of the adjusted capacity obligation in a given system stress event with regard to the capacity obligation, determined in accordance with the formula $\min\{1, (P_{CP} + P_{RM} - W_{NURM}) / (\Sigma OM_n - UR_{JRM})\}$

REJESTR RYNKU MOCY
PORTAL UCZESTNIKA RYNKU MOCY

Login

Username*

Password*

[Forgot password?](#)

The Portal Uczestnika Rynku Mocy is an integral part of the Capacity Market Register established pursuant to Article 97 of the Capacity Market Act of 8th December 2017 (Journal of Laws of 2023, Item 2131 as amended).

The Capacity Market Register is an electronic platform facilitating collecting, processing and exchanging trade, accounting and technical data on the capacity market. It enables participation in certification processes and capacity auctions as well as reporting the transactions conducted on the secondary market.

The rules of operation and maintenance of the Capacity Market Register are regulated in the Capacity Market Act and the Capacity Market Rules.

The Capacity Market Register, including the Portal Uczestnika Rynku Mocy, is owned and administered by Polskie Sieci Elektroenergetyczne S.A. with its registered office in Konstancin-Jeziorna, Warszawska Street 165, 05-520 Konstancin-Jeziorna.

Subscription to receive information about announced system stress events

NOTE: Subscription to receive information about announced system stress events is described in *Portal Uczestnika Rynku Mocy User manual*. Subscription to receive information about system stress events and notifications about test system stress events, which is available on the [website](#).

REJESTR RYNKU MOCY
PORTAL UCZESTNIKA RYNKU MOCY

Announced system stress events
Day: 2025-06-23

The hour of system stress event	Date and time of the announcement	P _{OP}	P _{RM}	W _{NURM}	ΣOM _n	UR _{JRM}	α _{SOM}
		MW	MW	MW	MW	MW	-
20:00 - 21:00	2025-06-23 09:03	10 000,000	1 000,000	1 000,000	20 000,000	100,000	0,5025125628
21:00 - 22:00	2025-06-23 09:04	10 000,000	1 000,000	1 000,000	10 000,000	100,000	1,0000000000

P_{OP} - the average forecasted grid demand in a given system stress event
P_{RM} - the surplus of capacity required in a given system stress event, determined in accordance with the provisions of the Instruction of Transmission System Operation and Maintenance, referred to in Article 9g(4)(9) of the Energy Law Act
W_{NURM} - the average forecasted capacity to be delivered to the grid in a given system stress event by generation resources not covered by capacity obligations
ΣOM_n - sum of capacity obligations of all Capacity Market Units covered by capacity obligations in a given system stress event
UR_{JRM} - sum of unavailable capacities of Capacity Market Units during given system stress event, resulting from the events referred to in Section 16.6 of the Capacity Market Rules
α_{SOM} - the ratio determining the value of the adjusted capacity obligation in a given system stress event with regard to the capacity obligation, determined in accordance with the formula $\min\{1, (P_{OP} + P_{RM} - W_{NURM}) / (\Sigma OM_n - UR_{JRM})\}$

For a given day user can view information regarding:

- date and time of the announced system stress event,
- date and time of the announcement of the system stress event,
- average forecasted grid demand in the given system stress event,
- capacity surplus required in the given system stress event, determined in accordance with the provisions of the IRiESP (Instruction of Transmission System Operation and Maintenance) referred to in Article 9g (4) (9) of Energy Law Act (Journal of Laws of 2021, item 716 as amended),
- average forecasted capacity delivered to the grid in the given system stress event by generating assets not covered by capacity obligations,
- sum of capacity obligations of all Capacity Market Units in the given system stress event,
- sum of unavailable capacities of Capacity Market Units in the given system stress event, resulting from the events referred to in Section 16.6 of the Capacity Market Rules,
- coefficient determining the volume of the adjusted capacity obligation in the given system stress event with respect to the capacity obligation, referred to in Section 16.1.1 of the Capacity Market Rules.

3 CAPACITY OBLIGATION PERFORMANCE DURING SYSTEM STRESS EVENT

To display the section containing a list of announced system stress events, after logging in to the PURM, select **“Performance”** → **“System stress event”** → **“System stress event list”**.



NOTE: Access to the module concerning system stress events is restricted to users with following assigned rights:

- Rightholder role or
- Browse capacity agreements or
- Processing of capacity agreements and settlements

Assignment of rights is described in the *Portal Uczestnika Rynku Mocy User manual. Pre-auction process*, which is available on [the website](#).

After selecting **“System stress event list”**, user is redirected to a window containing the list of all thus far announced system stress events.

3.1 List of announced system stress events

The **“List of announced system stress events”** table by default displays announced system stress events relating to the current delivery year.

No.	Day of system stress event	Time of system stress event	Date and time of announcement	Forecasted grid demand (MW)	Forecasted unavailable capacities (MW)	Forecasted capacity of generating assets not covered by capacity obligations (MW)	Total capacity obligations of all Capacity Market Units (MW)	Required power reserve (MW)	Coefficient used to calculate adjusted capacity obligation
1	2025-06-23	21:00 - 22:00	2025-06-23 09:04	10 000,000	100,000	1 000,000	10 000,000	1 000,000	1,0000000000
2	2025-06-23	20:00 - 21:00	2025-06-23 09:03	10 000,000	100,000	1 000,000	20 000,000	1 000,000	0,5025125628
3	2025-06-13	21:00 - 22:00	2025-06-12 15:37	10 000,000	10,000	10,000	10 821,192	100,000	0,9332920921
4	2025-06-12	21:00 - 22:00	2025-06-12 12:21	1 000,000	10,000	10,000	10 821,192	7 800,000	0,8130463320

The table contains information about:

- day of the system stress event,
- time of the system stress event,
- date and time of announcement of the system stress event,
- forecasted grid demand,
- forecasted unavailable capacities,
- forecasted capacity of generating assets not covered by capacity obligations,
- total capacity obligations of all Capacity Market Units,
- required power reserve,
- coefficient used to calculate the adjusted capacity obligation.

NOTE: Rows containing information regarding future or ongoing system stress event are highlighted in red.

3.2 Settlement of performance of capacity obligation during system stress event

3.2.1 Settlement of performance of capacity obligation during system stress event for Capacity Market Units

In the PURM, it is possible to view a settlement of performance of the capacity obligation during a system stress event. To do this, select the given system stress event by clicking on the corresponding row in the table. The **“Performance of system stress event”** button is activated.

List of announced system stress events									
Delivery year: 2025									
No.	Day of system stress event	Time of system stress event	Date and time of announcement	Forecasted grid demand (MW)	Forecasted unavailable capacities (MW)	Forecasted capacity of generating assets not covered by capacity obligations (MW)	Total capacity obligations of all Capacity Market Units (MW)	Required power reserve (MW)	Coefficient used to calculate adjusted capacity obligation
1	2025-06-23	21:00 - 22:00	2025-06-23 09:04	10 000,000	100,000	1 000,000	10 000,000	1 000,000	1,0000000000
2	2025-06-23	20:00 - 21:00	2025-06-23 09:03	10 000,000	100,000	1 000,000	20 000,000	1 000,000	0,5025125628
3	2025-06-13	21:00 - 22:00	2025-06-12 15:37	10 000,000	10,000	10,000	10 821,192	100,000	0,9332920921
4	2025-06-12	21:00 - 22:00	2025-06-12 12:21	1 000,000	10,000	10,000	10 821,192	7 800,000	0,8130463320

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Performance of system stress event Refresh

After clicking the **“Performance of system stress event”** button, the **“Capacity used for calculating amount of a bonus / penalty”** section and the **“Settlement for system stress event performance of Capacity Market Units”** section are displayed. These sections show settlements of the performance of the capacity obligation and capacities used to determine penalties for the given system stress event.

List of announced system stress events									
No.	Day of system stress event	Time of system stress event	Date and time of announcement	Forecasted grid demand (MW)	Forecasted available capacity (MW)	Forecasted capacity of generating assets not covered by capacity obligations (MW)	Total capacity obligations of all Capacity Market Units (MW)	Required power reserve (MW)	Coefficient used to calculate adjusted capacity obligation
1	2025-08-23	21:00 - 22:00	2025-08-23 09:04	10 000.000	100.000	1 000.000	10 000.000	1 900.000	1.000000000
2	2025-08-23	21:00 - 21:40	2025-08-23 10:03	10 000.000	100.000	1 000.000	20 000.000	1 900.000	0.800100000
3	2025-08-23	21:00 - 22:00	2025-08-23 10:37	10 000.000	10.000	10.000	10 021.162	100.000	0.812320000
4	2025-08-12	21:00 - 22:00	2025-08-12 12:21	1 000.000	10.000	10.000	10 021.162	7 300.000	0.810460000

Capacity Provider	CMU code	CMU Name	Capacity for penalty determination (MW)	Capacity for bonus determination (MW)	Date of the latest update	Participation in realisation
Capacity Provider 1	JRM/0181	CMU 1	0.000	n/a	2025-06-23 09:35	No
Capacity Provider 2	JRM/0182	CMU 2	0.000	n/a	2025-06-23 09:35	No
Capacity Provider 3	JRM/0181	CMU 2	0.000	n/a	2025-06-18 10:12	No
Capacity Provider 3	JRM/0182	CMU 4	0.000	n/a	2025-06-18 10:18	No

Performance settlement ID	Capacity Provider	CMU code	CMU Name	Capacity obligation (MW)	Adjusted capacity obligation (MW)	Total volume of losses (MWh)	Total volume of electricity taken from the grid (MWh)	Profile	Total availability adjustment (MW)	Performance of adjusted capacity obligation (MW)		Non-performance of capacity obligation (MW)		Excess performance of capacity obligation (MW)	Settlement publication date	Settlement status	Flow of capacity from the zone (positive) / flow to the zone (negative) (MW)	Energy exchange bids (MW)	Unused balancing market bids (MW)	Used balancing market bids (MW)
										From	To	From	To							
JRM/0181/2025/10/01.001	Capacity Provider 3	JRM/0182	CMU 4	10.000	10.000	0.000	n/a	n/a	n/a	10.000	0.000	1.000	0.000	0.000	2025-08-18 10:18	Published	No	2.000	0.000	0.000
JRM/0181/2025/10/01.001	Capacity Provider 3	JRM/0181	CMU 2	20.000	22.700	10.000	n/a	n/a	n/a	10.000	0.000	7.230	0.000	0.000	2025-06-18 10:12	Published	No	n/a	n/a	n/a
JRM/0181/2025/10/01.001	Capacity Provider 2	JRM/0182	CMU 2	118.402	97.096	2.000	n/a	n/a	n/a	92.000	0.000	0.000	0.000	0.000	2025-08-23 09:35	Published	No	n/a	n/a	n/a
JRM/0181/2025/10/01.001	Capacity Provider 1	JRM/0181	CMU 1	90.000	75.813	0.000	n/a	n/a	n/a	75.813	0.000	0.000	0.000	0.000	2025-08-23 09:35	Published	No	n/a	n/a	n/a

The "Settlement for system stress event performance of Capacity Market Units" section contains a set of settlements of the performance during the system stress event for Capacity Market Units certified for the given delivery year, with respect to which the capacity provider is an entity for which user has relevant permissions.

NOTE: In the "Settlement for system stress event performance of Capacity Market Units" section, only settlements for units with active certificate during the given system stress event for which PSE has verified the performance of the capacity obligation during the system stress event are displayed. Otherwise, "No settlements" is displayed in the table.

For the given system stress event the "Settlement for system stress event performance of Capacity Market Units" section contains information about:

- performance settlement ID,
- name of Capacity Provider,
- Capacity Market Unit code,
- Capacity Market Unit name,
- capacity obligation,
- adjusted capacity obligation,
- total volume of losses,
- total volume of electricity taken from the grid (applies to demand side response Capacity Market Units),
- profile (applies to demand side response Capacity Market Units),
- total availability adjustment (applies to Capacity Market Units comprising physical generating units being an energy storage referred to in Section 16.2.2 (1) of the Capacity Market Rules),
- performance of adjusted capacity obligation,
- non-performance of capacity obligation,
- excess performance of capacity obligation,
- settlement publication date,
- settlement status,
- flow of capacity from the zone – whether it is greater than or equal to the sum of all adjusted capacity obligations in the zone,
- energy exchange bids,
- unused balancing market bids,

- used balancing market bids.

The settlement status may take following values:

- Published,
- Adjusted.

The **"Capacity used for calculating amount of a bonus / penalty"** section contains set of Capacity Market Units with active certificate during the given system stress event, along with information about excess performance of the capacity obligation or non-performance of the capacity obligation, from the settlement with the status "Published", less the volume of reallocated performance of the capacity obligation from approved reallocation transactions.

For the given system stress event, the **"Capacity used for calculating amount of a bonus / penalty"** section contains following information:

- name of Capacity Provider,
- Capacity Market Unit code,
- Capacity Market Unit name,
- capacity used for penalty determination,
- capacity used for bonus determination (applies to Capacity Market Units comprising physical units located in Poland),
- date of the latest update,
- participation in reallocation.

3.2.2 Settlement of performance of capacity obligation during system stress event for physical units

In the PURM, it is possible to view a settlement of performance of the capacity obligation during a system stress event for respective physical units. To do this, select the settlement of the Capacity Market Unit comprising given physical units by clicking on the corresponding row in the **"Settlement for system stress event performance of Capacity Market Units"** section (see section 3.2.1). The **"Settlement for system stress event performance of physical units"** section is displayed below, as well as the **"Additional information for performance settlement"** containing additional information on the settlement of the performance for the selected unit provided by PSE.

Settlement for system stress event performance of Capacity Market Units																									
Performance settlement ID	Capacity Provider	CMU code	CMU Name	Capacity obligation (MW)		Adjusted capacity obligation (MW)		Total volume of bonus (MW)		Total volume of penalty (MW)		Profile	Total availability adjustment (MW)		Performance of adjusted capacity obligation (MW)	Non-performance of capacity obligation (MW)	Excess performance of capacity obligation (MW)	Settlement publication date	Settlement status	Flow of capacity from the same greater than or equal to the used of adjusted capacity obligations in the stress					
				From	To	From	To	From	To	From	To		From	To						From	To	From	To		
JRM/192/2025/1/13/01	Capacity Provider 3	JRM/192	CMU 4	18,000	14,833	0,000	n/a	n/a	n/a	n/a	n/a	n/a	18,000	0,000	1,345	2025-08-16 10:18	Published	No	2,000	0,000	4,000				
JRM/191/2025/1/13/01	Capacity Provider 3	JRM/191	CMU 3	28,000	22,765	10,000	n/a	n/a	n/a	n/a	n/a	n/a	30,000	0,000	7,235	2025-08-16 10:12	Published	No	n/a	n/a	n/a				
JRM/180/2025/1/13/01	Capacity Provider 2	JRM/180	CMU 2	119,442	87,098	2,000	n/a	n/a	n/a	n/a	n/a	n/a	80,000	0,000	0,000	2025-08-12 08:38	Published	No	n/a	n/a	n/a				
JRM/193/2025/1/13/01	Capacity Provider 3	JRM/193	CMU 3	0,000	0,000	0,000	n/a	n/a	n/a	n/a	n/a	n/a	0,000	0,000	0,000	2025-08-12 08:38	Published	No	n/a	n/a	n/a				

Additional information for performance settlement JRM/191/2025/1/13/01

Stwierdzony obowiązek mocy w tym okolicznościach nie wynika z obowiązku na podstawie art. 47 ust 7 pkt 1 ustawy z dnia 8 grudnia 2017 r. o rynku mocy (Dz. U. z 2025 r. poz. 470). The adjusted capacity obligation shall be assumed performed during the system stress event pursuant to Article 37(7)(1) of the Power Market Act of 8 December 2017 (Journal of Laws of 2025, item 470).

Settlement for system stress event performance of physical units									
Physical unit performance ID	Physical unit code	Physical unit name	Unit type	Net available capacity of physical unit (MW)	Electricity delivered to the grid (MWh)	Losses (MW)	CMax (MW)	CMin (MW)	CMid (MW)
J/9054483151/2025/1/13/01	J/9054483151/2025	PU 1	Existing physical generating unit	100,000	n/a	n/a	n/a	n/a	100,000

The “**Settlement for system stress event performance of physical units**” section contains following information:

- physical unit performance ID,
- physical unit code,
- physical unit name,
- unit type,
- net attainable capacity of a physical unit,
- volume of electricity delivered to the grid,
- losses – resulting from information on grid congestions provided by TSOs,
- OM_{ZN} – the maximum volume of capacity that a physical unit may deliver to the system, as indicated in information on the occurrence of the sudden event, referred to in Section 16.6.5 (4) of the Capacity Market Rules.