

# Provision of data for balancing - proposal for implementing the Network Code for Balancing (NC BAL)

Warsaw, 13 May 2014

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# Information obligations under the NC BAL

- Chapter VIII - Provision of information
  - Article 32 - TSO's information obligations
  - Article 33 - general provisions
  - **Article 34 - 37 – information model on quantities delivered and quantities taken off to/from the balancing area**
    - Intra Day Metered
    - Daily Metered
    - Non Daily Metered
    - delivered and taken off after the gas day
- Expected timing of implementation of the Regulation - 1 October 2015

## Provision of information to the shipper

- The NC BAL Network Code defines a set of data for shippers, depending on how frequently **gas quantity is measured and collected** at the points of entry and exit:
  - Intra-day metered (IDM)- at least two updates a day
  - Daily metered (DM) - **the gas quantity is measured and collected once per gas day**
  - Non-daily metered (NDM) outputs one of **3 options (base case, variant 1 and variant 2)** is to be implemented
- After the end of the day, information on the preliminary status of imbalance and preliminary allocation, regardless of the category of the point
- The settlements between the settled and metered amounts do not fall within the scope of the NC BAL Network Code

# Models of provision of information according to NC BAL

## ■ Base case

- information on the quantities received, which are metered less frequently than daily are forecasts provided before the given gas day and during the gas day

## ■ Variant 1




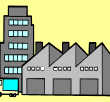
- information on quantities received, which are metered less frequently than daily and metered daily basis are based on the apportionment of the flows metered during the gas day

## ■ Variant 2

- information about quantities received, which are metered less frequently than daily are forecasts provided before the given gas day




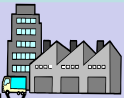
**→ Close cooperation between the DSO and TSO and the forecasting entity is required**

# Provision of information – **base case**

	Measurements and estimates D-1	Measurements and estimates D	Preliminary allocation D +1
WS (NDM) 	Forecast based on the load profiles, variables (e.g. temperature)	Update of the forecast twice a day	Update of the forecast
Daily metered (DM)  	Measurement not available	Measurement not available	Measurement metered quantity allocated
Intra-Day Metered (IDM) 	Measurement not available	Measurement from the reading - twice a day - metered quantity allocated	Measurement metered quantity allocated

→ All of the gas delivered to the distribution system is allocated

# Provision of information to the shipper - **variant 1**

	Measurements and estimates D-1	Measurements and estimates D	Preliminary allocation D +1
WS (NDM) 	Measurement not available	Apportionment of measured flows allocated to the shipper Min. twice a day	Part of the metered flows allocated to the shipper
Daily metered (DM)  	Measurement not available	Apportionment of measured flows allocated to the shipper Min. twice a day	Measurement metered quantity allocated
Intra-Day Metered (IDM) 	Measurement not available	Measurement from the reading - twice a day - metered quantity allocated	Measurement metered quantity allocated

→ All of the gas delivered to the distribution system is allocated

→ The preliminary allocation is considered the final allocation

# Provision of information to the shipper - **variant 2**

	Measurements and estimates D-1	Measurements and estimates D	Preliminary allocation D +1
WS (NDM)	Forecast based on the load profiles, variables (e.g. temperature)	Forecast from D-1 is applicable	Forecast from D-1 is applicable
Daily metered (DM)	Measurement not available	Measurement not available	Measurement metered quantity allocated
Intra-Day Metered (IDM)	Measurement not available	Measurement from the reading - twice a day - metered quantity allocated	Measurement metered quantity allocated

→ The forecast for NDM provided on D-1 is considered the final allocation

## The **DSO's** information obligations in accordance with the **base case**

D-1	D	D+1
<ul style="list-style-type: none"><li>• The <b>DSO</b> provides the Forecast for the next day (D) for shippers for points of exit metered less frequently than once a day and connected to the distribution network</li></ul>	<ul style="list-style-type: none"><li>• The <b>DSO</b> provides an update of the forecasts for the current day for the shippers to the TSO – at least 2 updates a day</li></ul>	<ul style="list-style-type: none"><li>• The <b>DSO</b> provides the preliminary allocations for the shippers to the TSO for the previous day (D)</li></ul>

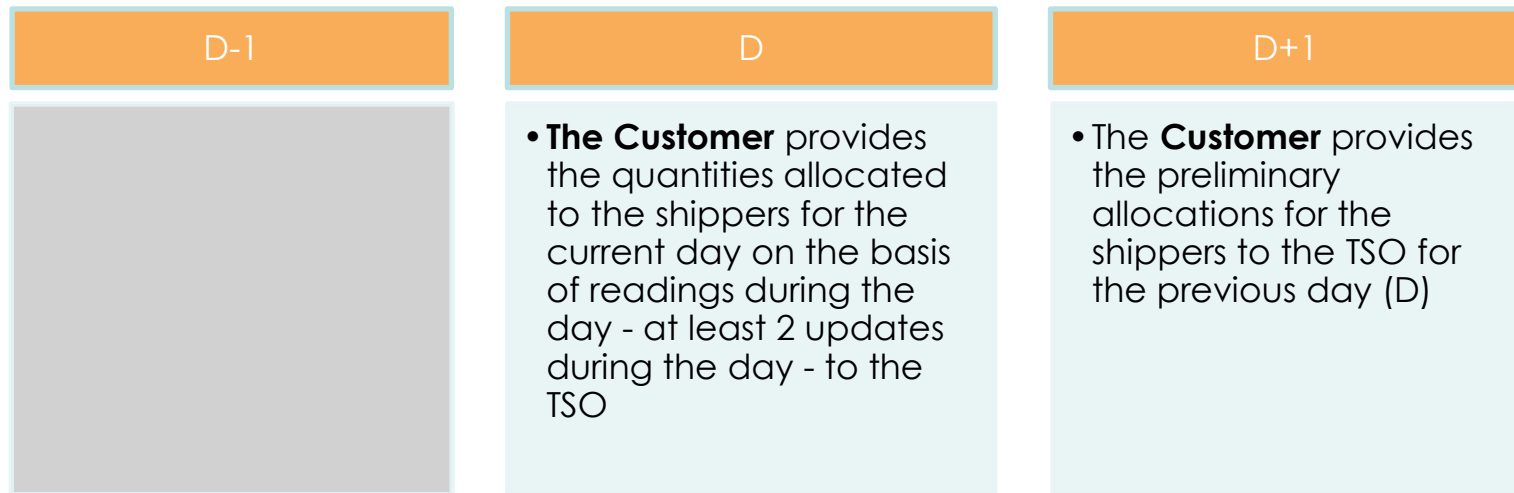
- The Regulatory Office designates the forecasting party after consulting the DSO and TSO
- Potential incentive fees for accuracy of the forecasts provided



## The provision of information to the TSO by the DSO and the forecasting entity

- The network code imposes **obligations on the DSO ~~and TSO~~ to provide to the TSO data** on the intraday and daily metered inputs and off-takes on the distribution system.
- The network code appoints an entity (forecasting party) which is responsible for **forecasting** and **conducting the allocations**
- **The DSOs are responsible for providing data to the forecasting party** enabling the designation of a forecasting methodology for non daily metered points
- The forecasting methodology should undergo a consultation process before it is implemented
- **→According to the current state of technical capabilities, the DSOs are the appropriate entities which can become forecasting parties**

# The **Customer's** information obligations in accordance with the **base case/ variant 1 / variant 2**

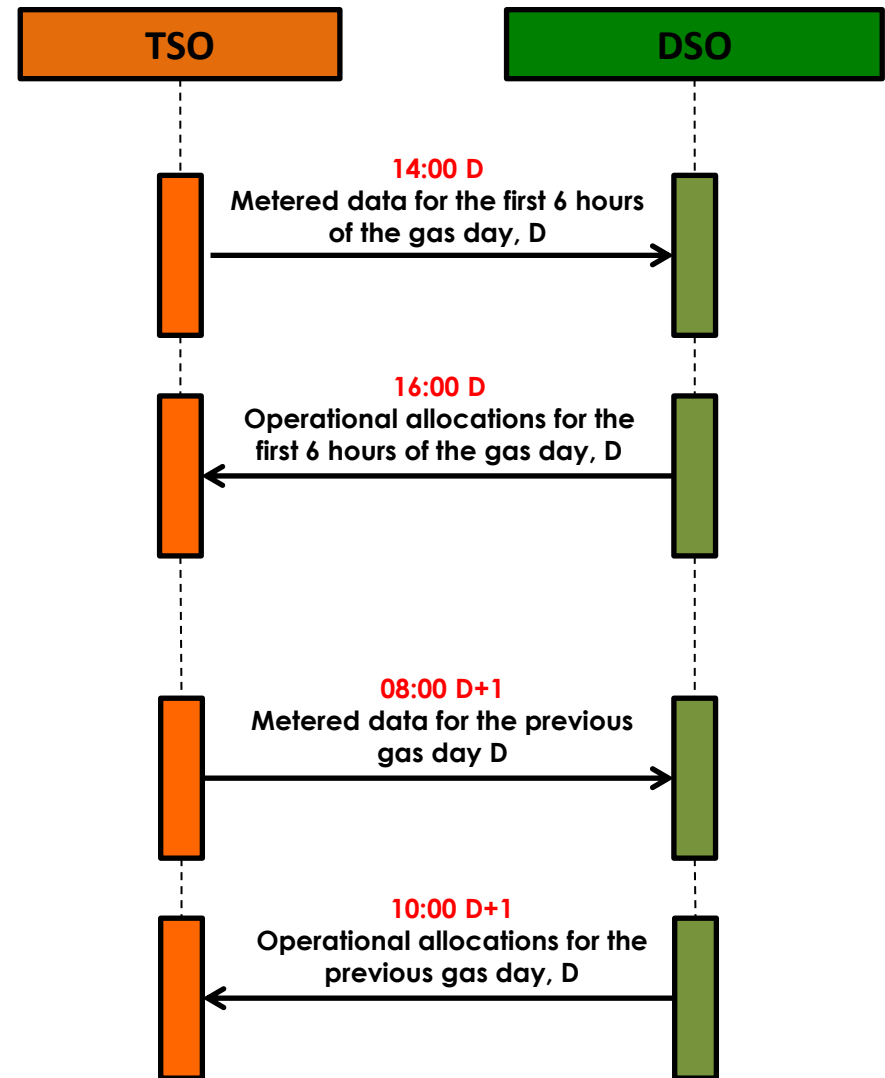


■ The planned implementation according to the draft TNC introduces only 1 update of measured value during the current gas day, including the first 6 hours of the gas day.

## Draft TNC - planned implementation of the NC BAL

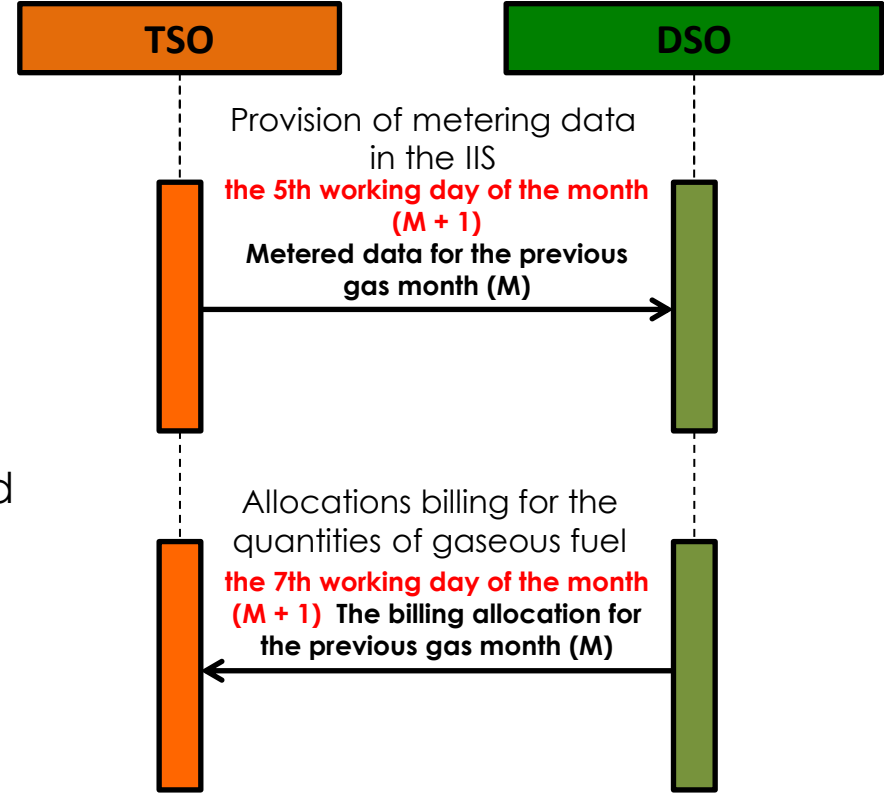
- We propose implementing **the base case**
- The DSO provides consumption profiles of Customers connected to the distribution network before the start of the gas day
- The TSO uses the IIS to provide its Customers and the DSOs with estimated measurements
  - from the first 6 hours of the current gas day
  - for the previous gas day
- The Customer and the DSO allocate the quantities assigned to the shippers based on estimated measurements during the current gas day and at the end of the day → **less frequently than in the NC BAL**
- → **analysis of the profits and costs related to increasing or decreasing the frequency of the provision of information**
- → in accordance with the NC BAL, the TSO is not liable for the data provided to the shippers

- The TSO provides the estimates of the quantities of gas fuel to the DSO in the IES for  $MFPWE_{OSD}$  and  $MFPWY_{OSD}$  (**operational measurements**):
  - for the first six hours of the gas day (06:00 - 12:00) - daily during the gas day by 14:00 hours;
  - for the previous gas day - daily by 08:00 hours;
- the DSO provides the TSO with estimates of quantities of gas fuel assigned to each shipper (**operational allocations**):
  - for the first six hours of the gas day (06:00 - 12:00) - daily during the gas day by 16:00 hours;
  - for the previous gas day - daily by 10:00 hours;

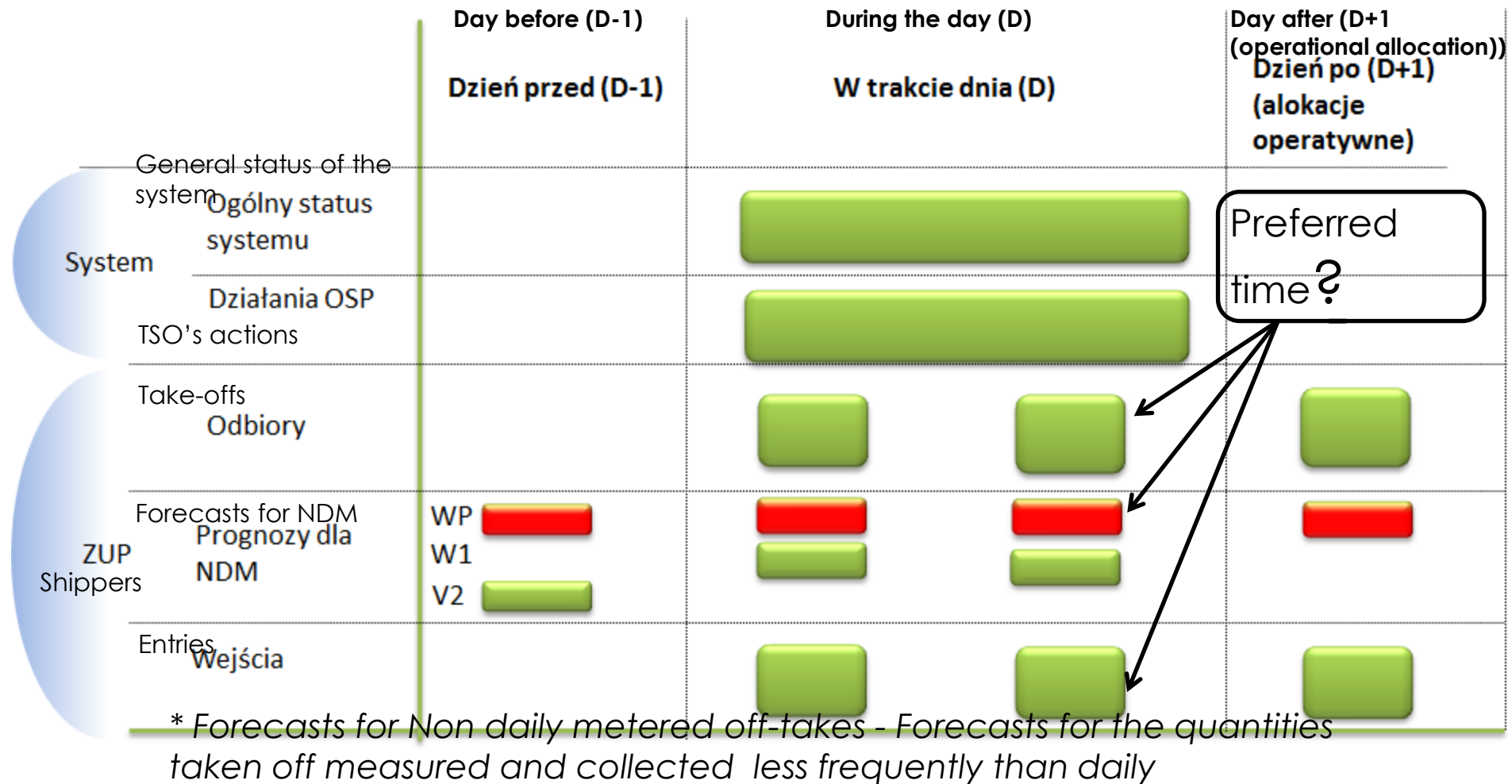


# Billing allocations

- The TSO provides metering data for the preceding gas month for  $MFPWE_{OSD}$  and  $MFPWY_{OSD}$  by the 5th working day of the following month
- The DSO makes the billing allocations broken down into all shippers with capacity allocation (PZ) for  $WPWY_{OSD}$  and  $WPWE_{OSD}$  by the 7th working day of the following month



# Chart of planned implementations



**Thank you for your attention**

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