

How will Elia communicate on system adequacy during the winter 2014-2015?

Users' Group Belgian Grid & System Operation

23/10/2014

This presentation intends to:

- ☑ Give an overview of the communication framework on system adequacy during the forthcoming winter.
- ☑ Focus on communication channels and messages between Elia and the energy market professionals (ARPs, ACHs and GUs).

This presentation does not intend to:

- ✗ Retell about the situation in Belgium or the Strategic Reserve functioning rules.
- ✗ Make an exhaustive description of the information that is made available to the (balancing) market by Elia (= transparency).

Disclaimer: As this presentation runs in parallel with work that is still in progress or in the last implementation stage, information provided herein might slightly differ from reality after 3/11/2014.

Global overview:

Which channel, content and targeted audience?

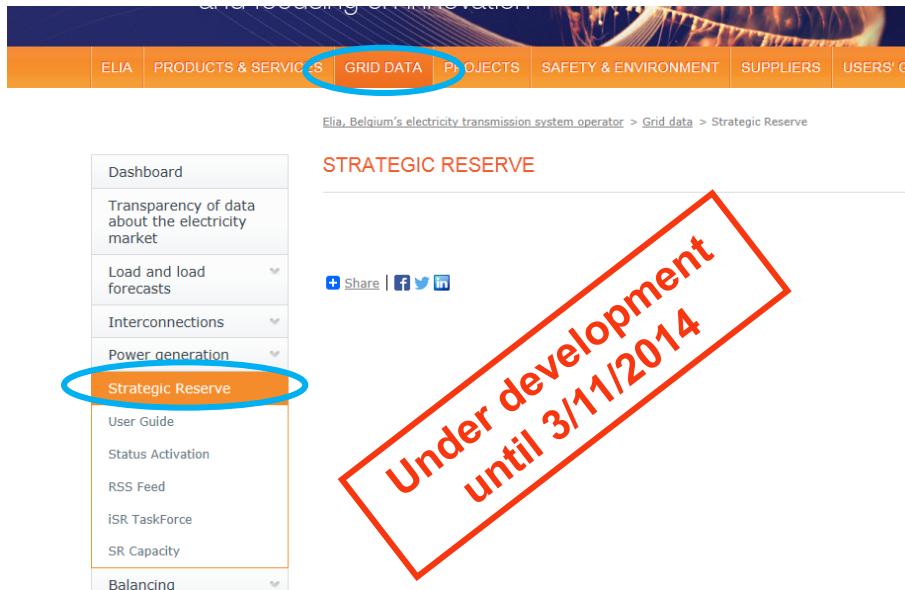
Elia communicates on the risk evolution of ...



... Strategic Reserve activation

Towards the energy market professionals

www.elia.be/en/grid-data



... load-shedding

Towards the Community

www.readyforwinter.be

An app will also be available with notification push!



<http://www.twitter.com/eliacorporate>



<http://www.facebook.com/eliacorporate>



<http://www.linkedin.com/company/elia>

Questions about the risk of power shortage?

[Read more!](#)



Global overview:

How to follow / subscribe to breaking messages?

Market parties follow the risk evolution of ...

... Strategic Reserve activation

www.elia.be/en/grid-data

... load-shedding

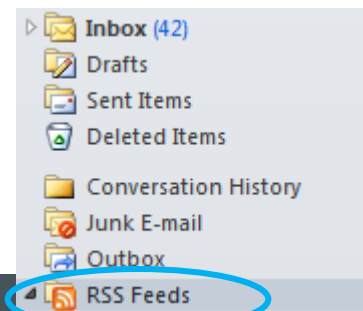
www.readyforwinter.be

Also for subscription to RSS feed:



RSS Feeds in Microsoft Outlook

Really Simple Syndication (RSS) is a way for content publishers to make news, blogs, and other content available to subscribers. You can add your favorite RSS Feeds as subscriptions in Microsoft Outlook.



See next slides
for more detail

Or via a dedicated app:



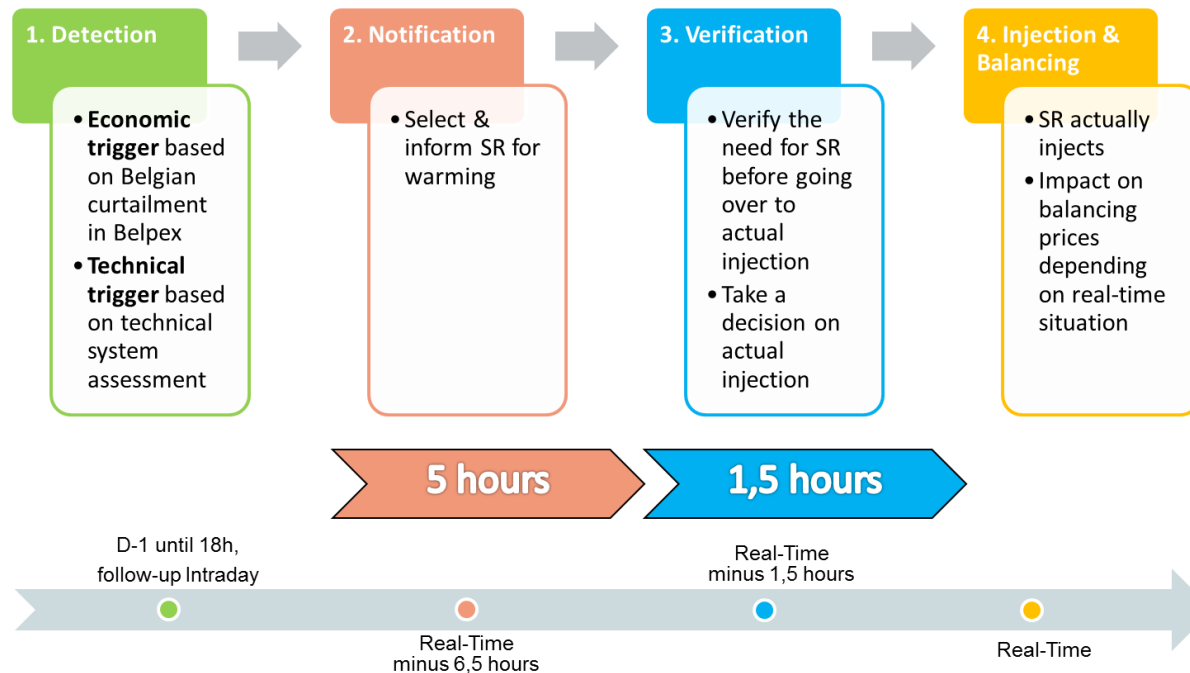
App name:

Elia 4cast

Communicate on SR activation
towards the energy market professionals

Communicate on the SR activation process

Communication to market parties will follow the steps of the well-known SR process:



Remark: Timing could be shortened if needed and if technically possible.

No commitment on the actual situation is possible before day-1 at the earliest!
Any info exchange before day-1 is to be considered as “best collaborative effort”.

A new page dedicated to SR on Elia's website...

www.elia.be/en/grid-data (exact/direct URL will be communicated later)



[Elia, Belgium's electricity transmission system operator](#) > [Grid data](#) > Strategic Reserve

STRATEGIC RESERVE

Dashboard
Transparency of data about the electricity market
Load and load forecasts
Interconnections
Power generation
Strategic Reserve
User Guide
Status Activation
RSS Feed
iSR TaskForce
SR Capacity
Balancing

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**Under development
until 3/11/2014**

A new page dedicated to SR on Elia's website...

The « grid data » section > SR page of Elia's website will be provided with a.o. the following additional information with regard to the Strategic Reserve:

- **SR capacity:**
 - SGR capacity day-ahead (MW per QH): the total strategic generation reserve that could be put on Belpex SRM in case of an economic trigger occurrence.
 - Economic trigger volume (MW per H): Effective SR volume that would have been sold on Belpex SRM after an economic trigger occurrence.

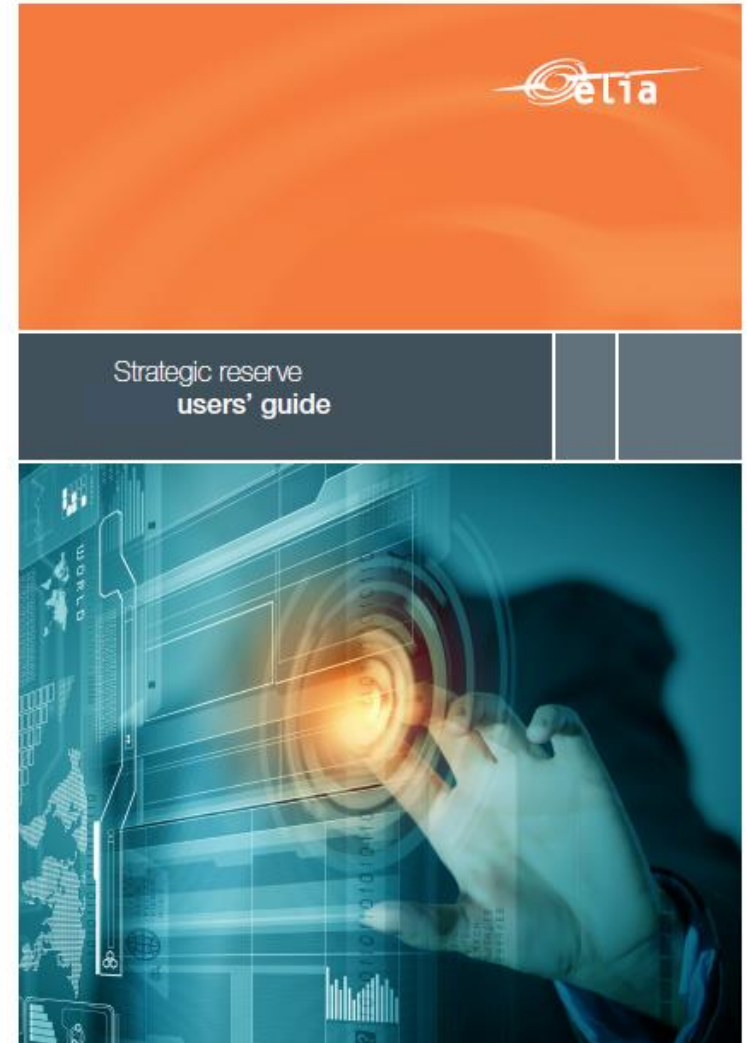
Time	Strategic Reserv Capacity (MW) - SGR	Strategic Reserv Sold on Belpex (MW)
00:00 - 00:15	700 MW	50 MW
00:15 - 00:30	600 MW	100 MW

Remark: the SDR volume (up to 96MW) will be added in the selection phase between SDR and SGR prior to notification.

- **RSS feed:** will inform market parties who subscribed of any new feed on this webpage.
- **SR process status** (in real-time): detection > notification > verification > delivery > stop.

A new page dedicated to SR on Elia's website...

- ... and a User Guide !
 - Explanation on all publications about SR
 - Entry-level knowledge is required
 - SR functioning rules remain the reference!



Strategic Reserve RSS feed

Warnings will be displayed and e-mailed on each SR activation process step:


- Economic trigger occurrence
- Technical trigger occurrence
- Notification
- Verification
- Delivery
- Cancellation/stop

Registration is free of charge for anyone who is interested.

Example of existing balancing warnings (type RSS feed):

Balancing warnings

You are viewing a feed that contains frequently updated content. When you subscribe to a feed, it is added to the Common Feed List. Updated information from the feed is automatically downloaded to your computer and can be viewed in Internet Explorer and other programs. [Learn more about feeds.](#)

 [Subscribe to this feed](#)

Displaying 42 / 42

• All 42

Sort by:

▼ Date

Title

DAY-AHEAD CALL TO NEW DOWNWARD VOLUMES

→

DAY-AHEAD INFORMATION FOR THE MARKET - REQUEST FOR DOWNWARD REGULATION CAPACITY

08/03/2014 16:35

Elia has established an operational procedure (based on the CIPU contract) under which all ARPs that have signed a CIPU contract are requested to offer any available regulation capacity to the control area.

Please note that we have identified for **tomorrow 09/03/2014** the probability that there will be a **positive** imbalance combined with a need for more **downward** regulation capacity. In this context Elia has asked the ARPs to offer any available volume to the control area via the CIPU Intraday Procedure.

INTRADAY CALL TO NEW DOWNWARD VOLUMES

→

INTRADAY INFORMATION TO THE MARKET - REQUEST FOR DOWNWARD REGULATION CAPACITY

23/02/2014 13:29

Elia has established an operational procedure (based on the CIPU contract) under which all ARPs that have signed a CIPU contract are requested to offer any available regulation

Strategic Reserve RSS feed

- **Economic trigger occurrence:** possible as from clearing Belpex DAM, D-1 ~14h.

Belpex will also communicate to Belpex market participants via breaking messages on market results and any curtailment issue, before and after launching the Belpex SRM.

“An Economic Trigger has been detected for the strategic reserve Elia operates. As a consequence, a need for strategic reserve from DD/MM/YYYY hh:mm:ss until DD/MM/YYYY hh:mm:ss is expected. During this period, the strategic reserve will be activated in order to cover the needed volumes which are expected to vary between XXX MW and XXX MW.

Disclaimer: Please be careful, the timing and volumes mentioned here are only those that have been identified on Belpex (Economic Trigger only). The timing and the effective activated volumes can still change until the Verification gate. One economic trigger can cause several activations of strategic reserve.

- **Technical trigger occurrence:** possible as from D-1 ~18h (1st consolidated system assessment by Elia).

“A Technical Trigger has been detected for the strategic reserve Elia operates. As a consequence, a need for the strategic reserve from DD/MM/YYYY hh:mm:ss until DD/MM/YYYY hh:mm:ss is expected. During this period, the strategic reserve will be activated in order to cover the needed volumes which are expected to vary between XXX MW and XXX MW.

Disclaimer: Please be careful, the timing and the actual activated volumes can still change until the Verification gate. One technical trigger can cause several activations of strategic reserve”

Strategic Reserve RSS feed

When an economic and/or technical trigger do(es) occur, a RSS feed message is sent out and published on Elia's website...

ARPs are expected to take actions to secure the balance of their portfolio and to anticipate on real-time corrective measures (if/when needed).

Important incentive to get prepared (€ 4500/MWh imbalance price/risk)!

Reminder (*):

- A SR trigger/activation alone does not mean that the imbalance price will raise up to € 4500/MWh !
- An imbalance price of € 4500/MWh does not mean that the load-shedding plan is or will be activated !

Strategic Reserve RSS feed

- **Notification:** Maximum 6,5h before SR running.

“The Notification gate (i.e. start of the warm-up period) has been reached for at least one of the selected Strategic Reserve suppliers. This warm-up period will run from DD/MM/YYYY hh:mm:ss and DD/MM/YYYY hh:mm:ss.

*Disclaimer: Please be careful, **as long as there is no actual verification warning or STOP message, the warm-up period will continue and might be prolonged.** It can also be decided that the Delivery is not needed and that the warm-up period must be stopped.”*

- **Verification:** Maximum 1,5h before SR running.

“The Verification gate (i.e. start of the ramp-up period) has been reached for the strategic reserve Elia operates. This means that the injection/curtailment of the activated volumes of the strategic reserve is now confirmed. The selected SGR and SDR suppliers will follow their activation program from DD/MM/YYYY hh:mm:ss until DD/MM/YYYY hh:mm:ss. During the Delivery period, the expected volumes of the activated strategic reserve will evolve between XXX MW and XXX MW.

Disclaimer: Please be careful, the Delivery period should start at the end of the ramp-up period but it is still possible to stop the SR activation before the start of the Delivery period or to change the activated volume and the end time of the Delivery period.”

Strategic Reserve RSS feed

- **Delivery:**

“The Delivery period has been reached for the strategic reserve Elia operates. The selected providers will follow their strategic reserve activation program from DD/MM/YYYY hh:mm:ss until DD/MM/YYYY hh:mm:ss. During this period, the activated volumes of the strategic reserve will evolve between XXX MW and XXX MW.

Disclaimer: Please be careful, the Delivery period can still be stopped or the activated volumes changed at any moment by Elia if the activated volumes do not fit with the actual need.”

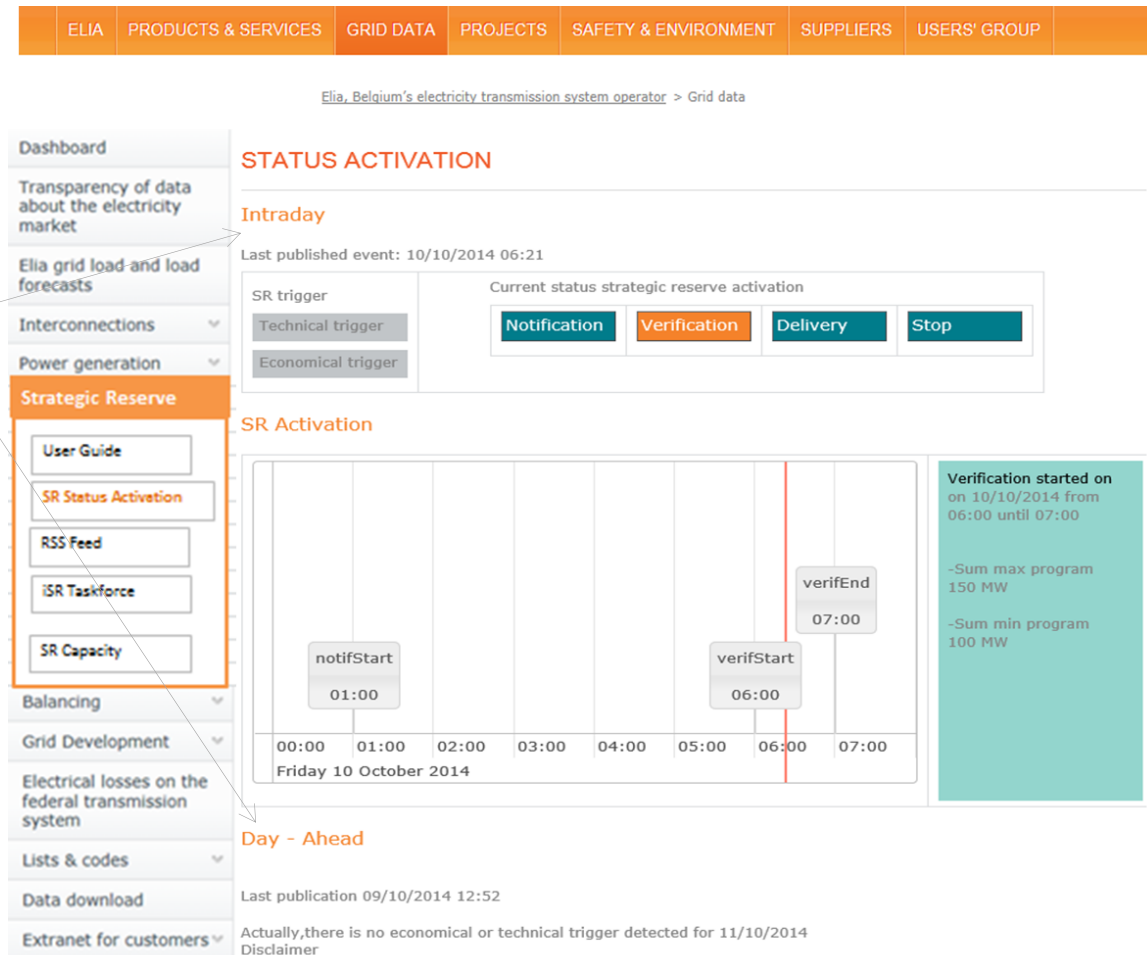
- **Cancellation/Stop:**

“The Delivery period of the strategic reserve has been stopped by Elia at DD/MM/YYYY hh:mm:ss. As a consequence, no more activations of the strategic reserve are foreseen from DD/MM/YYYY hh:mm:ss until DD/MM/YYYY hh:mm:ss.

Disclaimer: Please continue to follow carefully the RSS Feed because other SR activations are still possible.”

Strategic Reserve activation status

- Visualisation of RSS feed
- Timeline
- Current status is highlighted
- Intraday as well as day-ahead publication



Change to the system imbalance publication...

- Data refreshed every 2 minutes
- SGR/SDR activated volumes will be included in the NRV (except for the part of those volumes that would have been sold on the Belpex SRM the day-ahead).

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CURRENT SYSTEM IMBALANCE

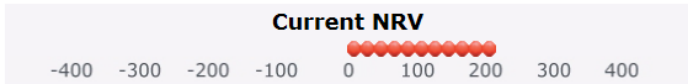
This page provides information on the current net regulation volume, the current system imbalance and the cumulated value of the two from the start of the quarter-hour in question.

Situation at **15/10/2014 17:29** Quarter 17:15 -> 17:30

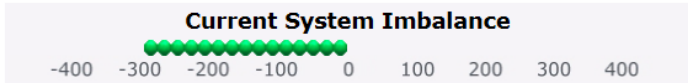
NRV = 207,9 MW
NRV Cumulated = 138,7 MW

System Imbalance = -289,6 MW
System Imbalance Cumulated = -180,4 MW

Current NRV



Current System Imbalance



[Time interval for publication of data](#)
[NRV \(Net Regulation Volume\)](#)
[SI \(System Imbalance\)](#)

Dashboard

Transparency of data about the electricity market
Elia grid load and load forecasts
Interconnections
Power generation
Balancing
Balancing Warnings
Current system imbalance
Available regulation capacity
Using regulation capacity
Imbalance prices
Financial report of the control area

Change to the URC publication...

- Data refreshed every 15 minutes
- SGR/SDR activated volumes will be included (except for the part of those volumes that would have been sold on Belpex SRM the day-ahead).
- A column will be added to mention the SR volume.

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USING REGULATION CAPACITY

This page details the history of the ancillary services used to maintain balance in Elia's control area.

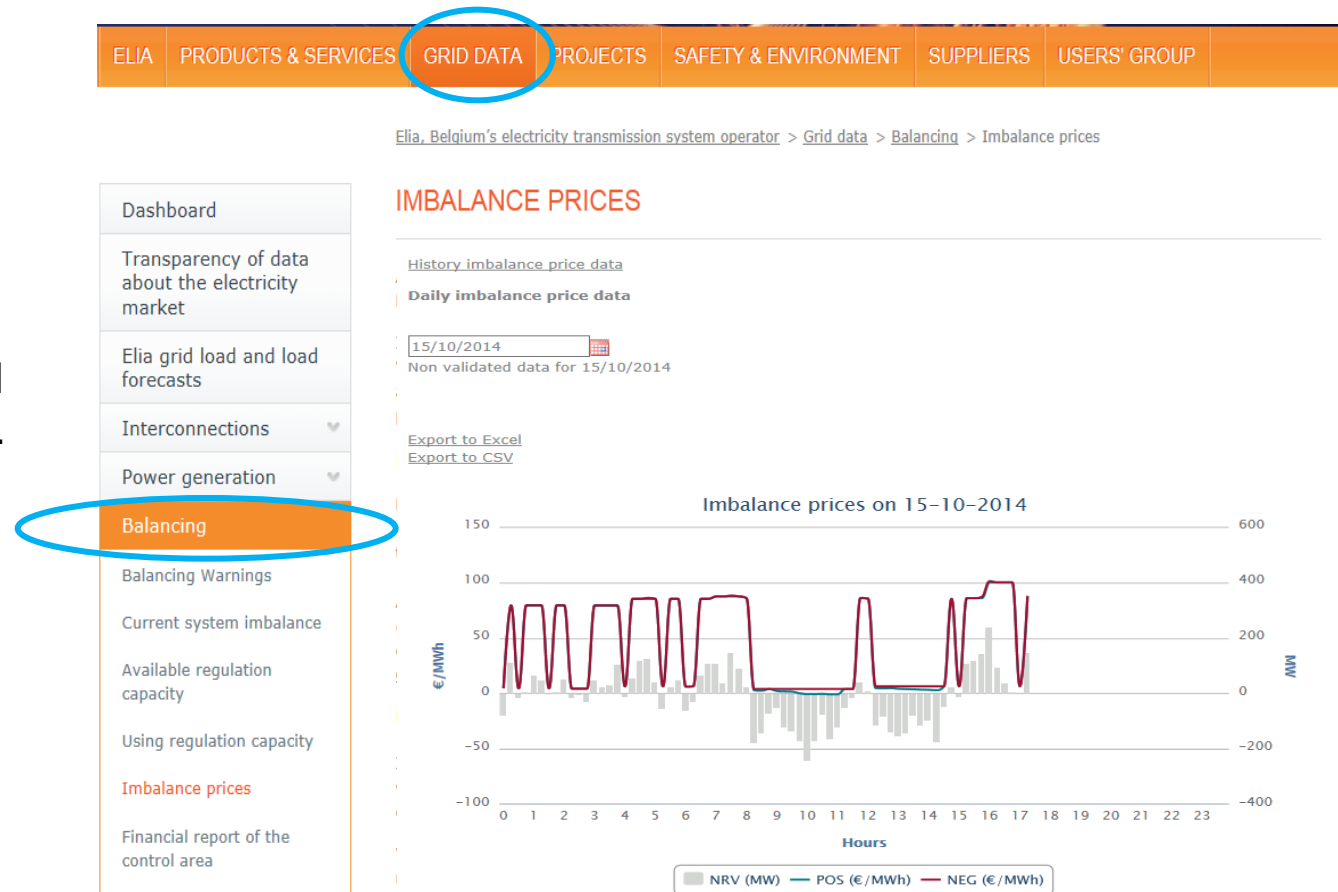
Non validated data for 15/10/2014

15/10/2014

Quarter	NRV (MW)	Upward regulation Volume						Downward regulation Volume				
		GUV (MW)	IGCC+ (MW)	R2+ (MW)	Bids+ (MW)	R3+ (MW)	R3DP+ (MW)	GDV (MW)	IGCC- (MW)	R2- (MW)	Bids- (MW)	R3- (MW)
00:00 > 00:15	-79,132	8,657		8,657				87,789	10,878	76,911		
00:15 > 00:30	111,085	113,677		113,677				2,592	0,011	2,581		
00:30 > 00:45	-17,552	23,413		23,413				40,965	15,867	25,098		
00:45 > 01:00	8,642	13,983		13,983				5,341	0,011	5,330		
01:00 > 01:15	66,624	70,852		70,852				4,228	3,111	1,117		
01:15 > 01:30	50,076	52,009		52,009				1,933	1,933			
01:30 > 01:45	-2,089	26,763		26,763				28,852	22,789	6,063		
01:45 > 02:00	8,323	23,088		23,088				14,765	4,889	9,876		
02:00 > 02:15	54,566	63,598		63,598				9,032	2,922	6,110		
02:15 > 02:30	-15,042	3,972		3,972				19,014	6,278	12,736		

Change to the imbalance price publication...

- Data refreshed every 15 minutes
- When SR will be running, the imbalance price will be published in **red**.



Continue to support market parties...

Support documents will be centralized on the SR page of Elia's website:

- SR functioning rules (& constitution procedure)
- SR product sheet
- SR Users' Guide (NEW!)

A direct link will be added on Elia's homepage to:

- www.elia.be/en/grid-data (> SR page)
- www.readyforwinter.be

The User Guide as well as this presentation will be sent by e-mail to all ARPs, ACHs, GUs (contractual contacts).