

FIND OUT MORE ABOUT...

The vigilance system and triggering of congestion management mechanisms

The Smart NaTran monitoring system allows you to track the status of network congestions in real time.

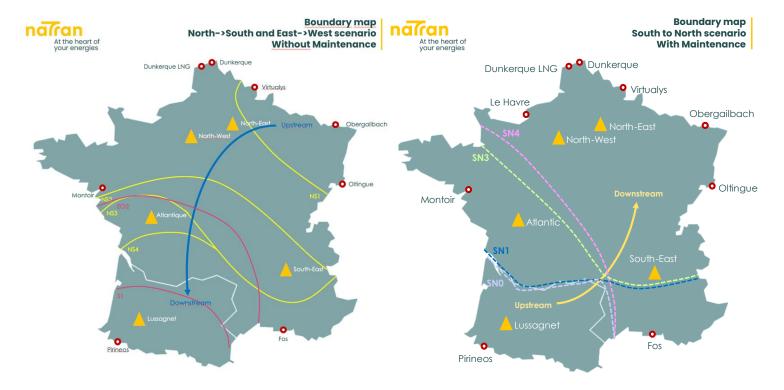
Since the implementation of the TRF on November 1st 2018, you are able to view the status of the residual limits of the network as well as the mechanisms triggered at each nomination cycle, in particular the locational spread.

The elements described in this sheet comply with the CRE's deliberations on the operation of the single gas market area in France.

Why a monitoring system?

The merging of zones on 1 November 2018 was made possible by a combination of optimised investments in the network, and complementary mechanisms for managing residual limits.

These residual limits are as follows:









What is a limit?

When a **limit** is reached, it means that the network is **congested**, and that it cannot route all gas from "upstream" to "downstream".

<u>Caution</u>: in this sheet, when referring to <u>upstream or downstream</u>, it means the side with respect to the <u>limit</u>, and not upstream or downstream capacities. For example, the capacities of consumer customers are not affected.

The information is available in <u>Smart NaTran</u>, under the "Vigilance Outlook" tab: https://smart.natrangroupe.com/en/infovigilance



- Understanding monitoring using Smart NaTran

The color code

Each limit is tracked, and is evaluated using the following colour code:

- Green: no specific alert.
- Orange: the limit has nearly been reached, the network is only able to transport the quantities requested by the shippers.
- **Red**: the limit has been exceeded, the network is not able to transport all shipper requests.





Violet: the limit has been exceeded and the last resort mechanism (mutualised restriction) has been activated.

Monitoring from D+2 to D+5

The state of the network's limits is assessed daily for days D+2 to D+5, based on consumption forecasts and flow forecasts (based in particular on the LNG terminal emission programmes). The Violet level of monitoring is not used at this stage. No mechanism is triggered by the TSOs at this stage, regardless of the level of monitoring displayed. You can consult it here in Smart NaTran:

Vigilance Outlook Last refresh: 30/10/2024 17:16							
INTRA D	D+1	D+2 to D+5*					
		01/11/2024	02/11/2024	03/11/2024	04/11/2024		
Limit		Alert level	Alert level	Alert level	Alert level		
NS1		②	Ø	Ø	②		
NS2		Ø	Ø	Ø	Ø		
NS3		⊘ %	⊘ %	⊘ %	Ø		
NS4		⊘ %	⊘	⊘	⊘ %		
EO2		⊘	⊘ %	⊘	⊘		
S1		⊘	⊘	⊘	⊘		
SN0		Ø	⊘	②			
SN1		⊘	∅ %	⊘ %	⊘		
SN3		⊘ %	%	%	⊘		
SN4		Ø	Ø	Ø	Ø		



- Monitoring at D-Day and D+1

The state of the network's limits is then assessed at each nomination cycle starting at 2 p.m. on D-1. You can consult it here in Smart NaTran:



^{*} D+5 data publication starts on D-5 3.30pm





Some mechanisms apply only on one side of the limit: either upstream or downstream. If it's upstream, it means that the mechanism applies to network entries upstream of the limit, and if it's downstream, it applies to exits downstream.

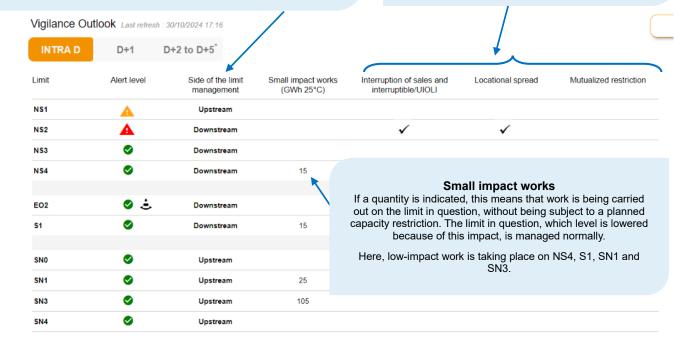
Mechanisms concerned:

NS and EO limits: interruption of interruptible/UIOLI capacities and sales shut-down, mutualised restriction, and anticipated restriction. SN limits: mutualised restriction and anticipated restriction only.

Mechanisms triggered

If these boxes are ticked, this means that the corresponding mechanisms have been triggered for the gas day in question.

Here, the NS2 limit has been reached, the interruptible capacity was curtailed, and downstream capacity sales were shut down, and a locational spread was launched.



The Smart API

You can download all the data in .csv and .xls file formats, as well as make requests via the Smart NaTran API:

- Request on all Smart data D and D+1: https://smart.natrangroupe.com/en/b2b
- Specific request on the monitoring system data: https://www.smart.natrangroupe.com/api/v1/fr/infovigilance/export.xls?startDate =2020-04-02&endDate=2020-04-07

Limit management mechanisms

The mechanisms for managing limits are triggered based on the following merit order:





	Limits NS1 to NS4, EO2, S1	Limits SNO, SN1, SN3, SN4		
1.	Agreements with adjacent operators (or "swaps") : this is completely transparent for customers			
2.		Interruption of "storage UIOLI" upstream of the limit (on D-1 before 13h)		
3.	Interruption of interruptible capacities and UIOLI, and shut-down of capacity sales (from D-1 and on D-Day) on the limit management side on both sides of the limit			
4.	-	"Storage swap": this mechanism is transparent for customers		
5.	Locational spread call (only in intra-D)			
6.	Mutualised restriction (only as a last resort, intra-D) on the limit management side			
7.	Anticipated restriction (only in the event of repeated use of mutualised restriction, in D for subsequent days)			

These mechanisms apply only to the main network points: <u>PIR, PITS, PITTM</u>. Delivery capacities to customers are not affected (outside of highly modulated sites in the specific case of locational spread).

Once a mechanism is triggered, it is for all the rest of the gas day.

Beforehand: interruption of "storage UIOLI", of interruptible capacities and UIOLI, and shut-down of sales

At 2 pm on D-1, **in case of an orange or red alert**, long-term interruptible capacities are interrupted (i.e. not given in the CTE).

In the specific case of the SNO, SN1, SN3 and SN4 limits, **in case of a red alert**, the TSOs will also have asked the storage operator(s) concerned to suspend their UIOLI service before 1 pm on D-1 on withdrawals from storage facilities upstream of the limit.

Then, from 2 pm on D-1 and throughout the gas day, **in case of a red alert**, intra-D interruptible capacities and UIOLI are interrupted, and capacity sales are shut down. Intra-D interruptible capacities are:

- On PIRs: either Pirineos (on the Teréga network) or backhaulcapacities (on the NaTran network);
- On PITS: some injection capacities.





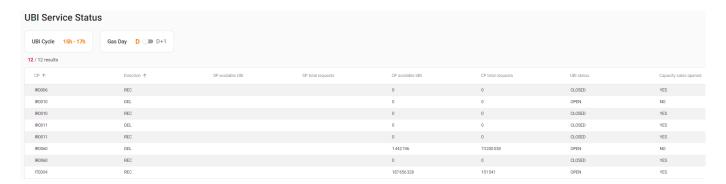
The mechanisms for interrupting interruptible capacities and UIOLI, and for shutting down sales, apply only to points/directions that strain the limit in question (entries upstream of the limit and/or exits downstream), and:

- For SNO, SN1, SN3 and SN4 limits: simultaneously upstream and downstream of the limit
- For other limits: only on the management side of the limit.

These mechanisms can thus influence the following points:

	Upstream (entries)	Downstream (exits)					
Action on the limit management side							
NS1	Virtualys, Obergailbach, Oltingue	-					
NS2	Dunkerque GNL	Sud-Est, Atlantique, Lussagnet, Pirineos					
NS3	Dunkerque Virtualys	Atlantique, Lussagnet,					
EO2	Obergailbach	Pirineos					
NS4	Oltingue	Lussagnet					
\$1	-	Pirineos					
Simultaneous action upstream and downstream of the limit							
SNO and SN1	Pirineos + "storage UIOLI" on Lussagnet	Virtualys, Obergailbach, Oltingue, Nord-Est, Nord-Ouest, Sud-Est, Atlantique					
SN3 and SN4	Pirineos + "storage UIOLI" on Atlantique et Lussagnet	Virtualys, Obergailbach, Oltingue, Nord-Est, Nord-Ouest, Sud-Est					

You can view the sales and the UIOLI shutdown on the UBI services status screen on the INGRID portal, "My operations" / "UBI services status" menu:







Locational spread: the main mechanism for managing limits

If the previous mechanisms have not been sufficient, the TSOs launch a call for tenders via the locational spread. The latter has effects on both sides of the limit simultaneously (upstream and downstream).

This mechanism is open to all shippers, and you will find all the information you need to take part in it in the Learn more about Locational Spread sheet of the <u>Transmission Toolbox</u>.

When calling for the locational spread, TSOs can exclude eligible physical points, in particular points already used as part of the "storage swap" mechanism.

You can consult the history of all locational spreads launched in the Smart Vigilance Outlook section, "Locational spread" tab".

Mutualised restriction: as a last resort

Mutualised restriction is triggered as a last resort, only if the locational spread call for tenders was not sufficient for managing the limit. It consists in a <u>partial restriction of firm capacity</u>, pro rata to the subscribed capacities, <u>pooled if possible on a group of points called a Superpoint</u> (see the "Find out more about Superpoints" sheet). A restriction at the superpoint level allows greater flexibility to be left to the shipper.

A mutualised restriction can be applied either upstream (restriction of upstream entries) or downstream (restriction of downstream exits). The choice was made by the CRE to apply the mutualised restriction downstream as soon as it is possible, in order to minimise the impact on the price of the PEG. But from a certain level of consumption, restricting downstream exits is no longer sufficient; the mutualised restriction then applies upstream. The application side of the mutualised restriction on a given day corresponds to the management side of the limit published for that day.

The mutualised restriction is applied equally to all points (upstream inputs or downstream outputs) located on the management side of the limit; as an exception, when activated upstream of the SNO, SN1, SN3 and SN4 limits, the restriction first applies to PITS entries (up to the technical minimum of the infrastructure), and only then to other entry points (PIR and PITTM).

In case of a mutualised restriction, you will be informed by e-mail that a mutualised restriction will be applied from the start of the following hour on a given superpoint. This e-mail will invite you to consult your guaranteed COA in Ingrid, in the "My operations" / "My operational capacity notices" menu, where you can view your rights for the day following this intraday restriction (see the "Find out more about guaranteed COA" page).

Mutualised restrictions do not give rise to financial compensation.





Anticipated restriction: in case of repeated use of the mutualised restriction

Anticipated restriction has been designed as a very last resort mechanism in the event of repeated failure of the current decongestion mechanisms, leading to mutualised restrictions for several days in a row. It consists in the application of a partial restriction of firm capacity, pro rata to the subscribed capacities, applied according to the same modalities as the mutualised restriction, but anticipated the day before for the following day.

The TSOs will trigger an anticipated restriction for the next gas day if mutualised restrictions have been triggered for at least 5 consecutive days, the last day being a working day (if the 5th consecutive day of mutualised restriction is a Saturday, Sunday or bank holiday, the anticipated restriction will only be activated if a mutualised restriction is triggered on the following working day).

In this case, you will be informed by e-mail and on Smart NaTran that the TSOs are switching to this anticipated restriction congestion management mode, for as long as the network is experiencing congestion: the TSOs will stop applying an anticipated restriction for the following day when the vigilance monitoring returns to green; any congestion to follow will then be handled again using conventional mechanisms.

During the anticipated restriction period, the applicable restriction rates will be published the day before the following day. They will be communicated by e-mail, and you will be able to consult them on Ingrid, menu "My operations" / "Work schedule". In addition, the TSOs will communicate each day an indication of the possible restriction rates for the following days.

Anticipated restrictions do not give rise to financial compensation.





- How can I know that a mechanism has been triggered?

You are informed on Smart NaTran at the beginning of each hour (around H+10 min.) of the mechanisms that have been triggered since the start of the gas day (see previous table: Intra-D/D+1 vigilance).

In addition, you'll receive an e-mail if a locational spread is triggered (if you have signed a locational spread participation agreement), and in case of a mutualised or anticipated restriction.

Finally, the market will be informed via Urgent Market Messages (UMM) in case of interruptible/UIOLI or sales shut-down, and in the event of mutualised or anticipated restriction.

Link: https://transparency.entsog.eu/#/umm

