

Workshop Green / Red Zone policy

Sep 2nd, 2016

Agenda

1. Setting a green/red zone as a way to avoid congestions
 - a) Context
 - b) Congestion management overview
 - c) Red Zone features
 - d) Red Zone process
2. Historical data shows an increase of red zones since 2014
3. Congestion management check in BidLadder/R3

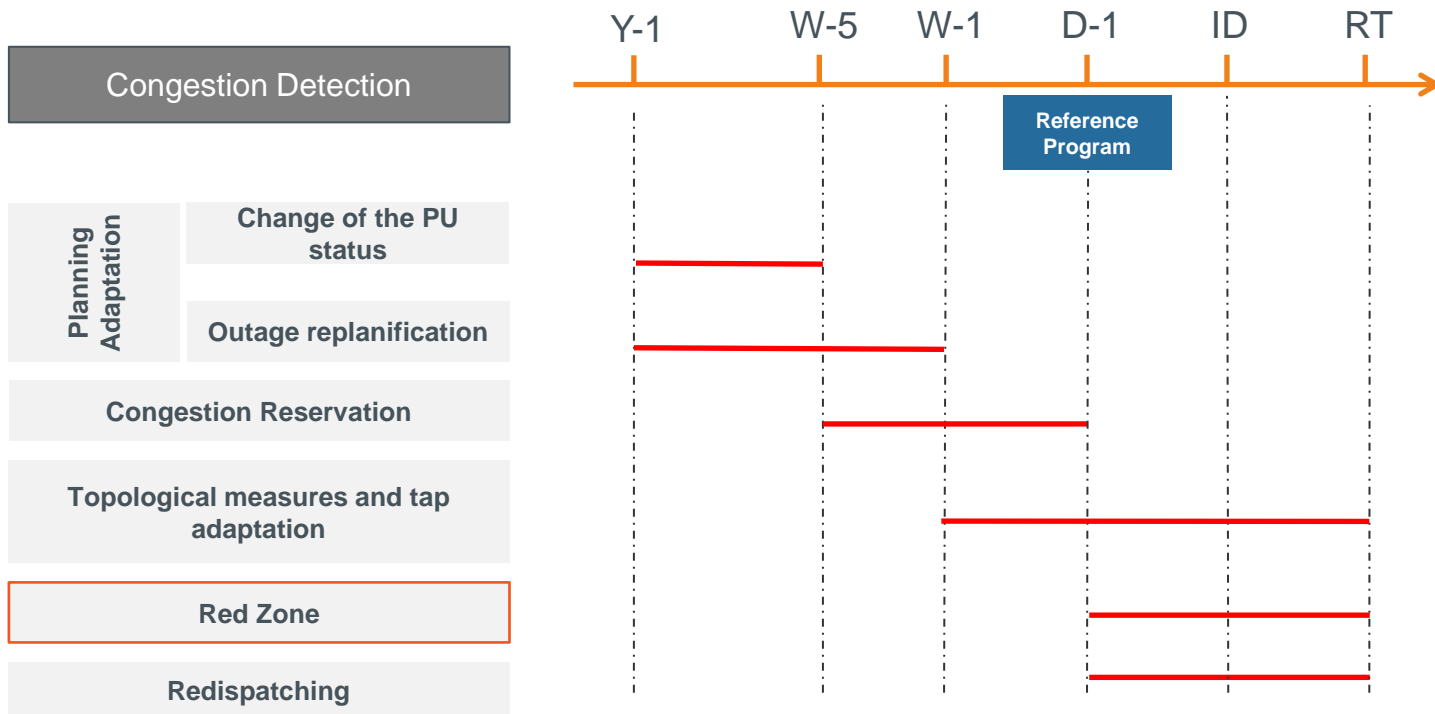
Setting a green/red zone as a way to avoid congestions

Context

- Belpex intraday market was created in 2008
- IDPCR (Intraday Production Change Request) concept has been created to let the market parties benefit from intraday opportunities and adapt their production program accordingly in a firm manner towards ELIA
- In order to avoid congestions due to this facility of ID production program changes, ELIA informed the market parties where IDPCR were possible without congestion (green/red zones)
- This allowed the market parties to
 - be aware of the network constraints in some zones as from 18h D-1
 - provide guarantee of acceptance by ELIA in green zones
 - to mitigate the risk that an IDPCR is refused by Elia in red zones

Congestion management

General overview



Setting a green/red zone as a way to avoid congestion

Red Zone features

Setting a red zone means defining a:

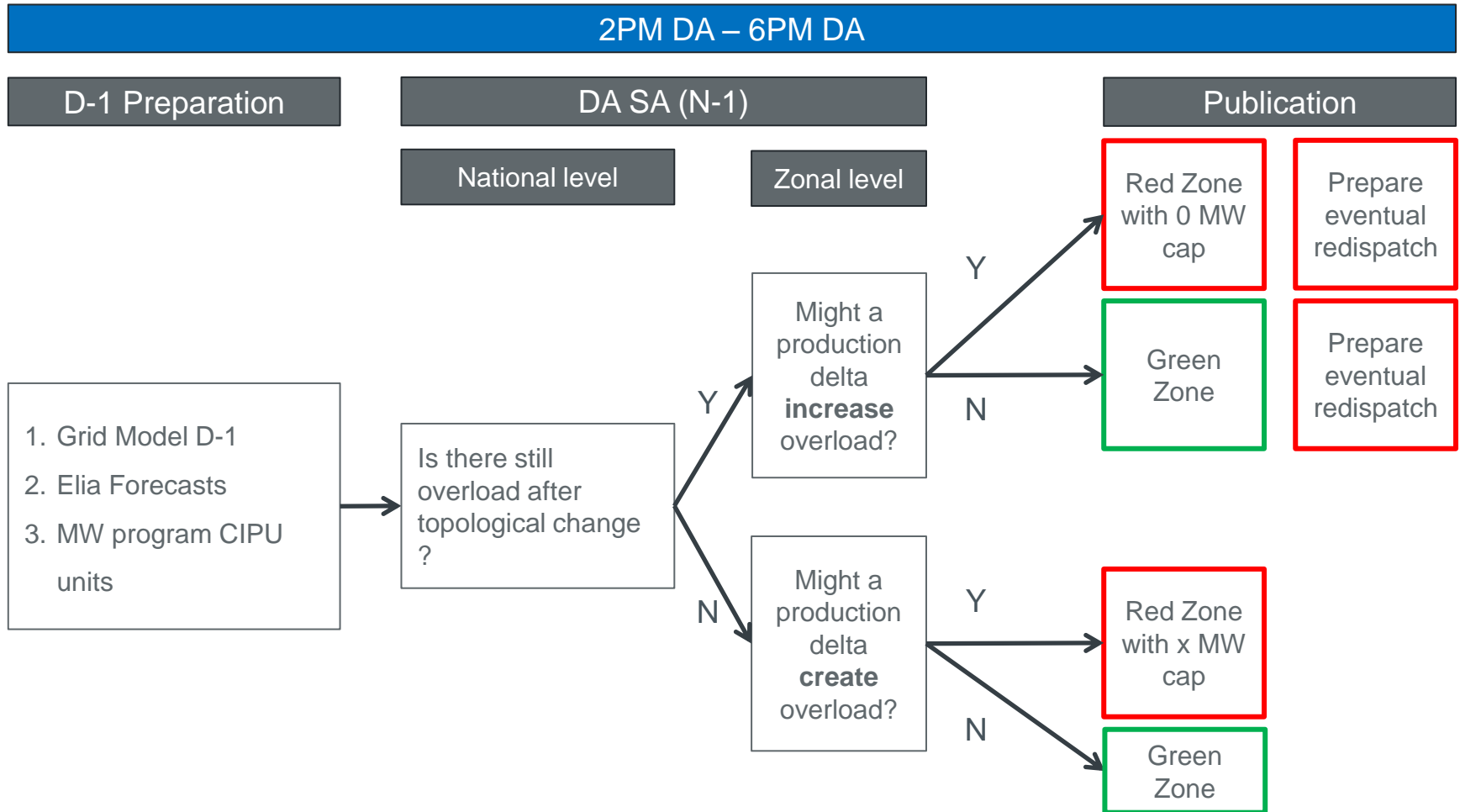
1. **Zone:** amongst the seven electrical zone used within Elia
2. **Period:** peak (9AM – 8PM) or off-peak (9PM-8AM)
3. **Direction:** decremental or incremental
4. **MW cap** as a MW value



The concept of green/red zone allows the market players to have an indication in DA of which zone is/ isn't subject to network constraints in intraday and therefore what IDCPR will Elia accept / refuse.

Setting a green/red zone as a way to avoid congestion

Process (1/2) : Defining a red zone



Setting a green/red zone as a way to avoid congestion

Process (2/2) : Updating a red zone & manage IDPCR

6PM DA – 11PM ID

1. Elia can adapt the red zone's features in ID
2. The first come first served principle is applied for the IDPCR on a unit located in a red zone (until the eventual MW cap is reached)

Practical example

20/06/2016



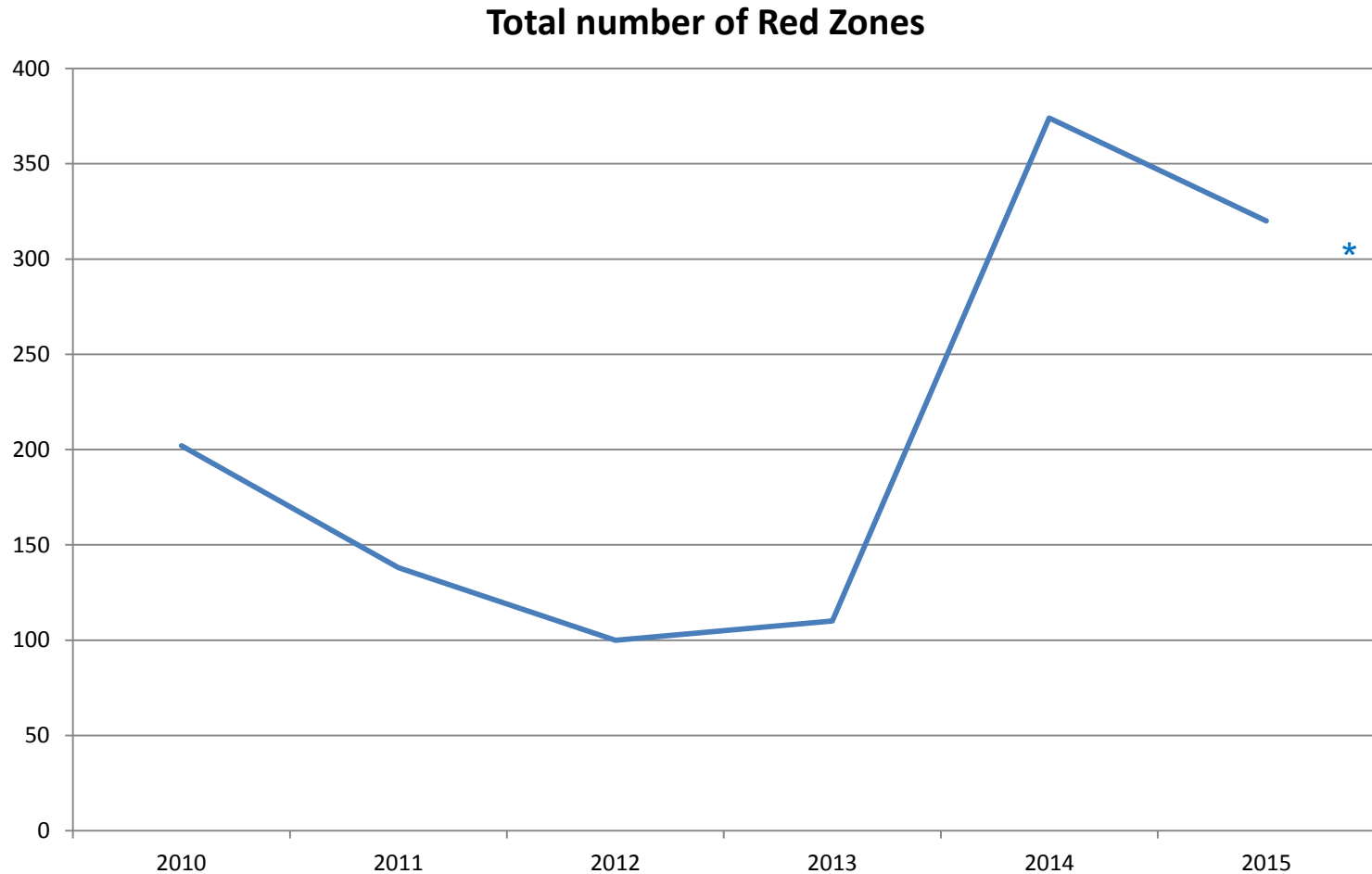
DA

ID

Publication date	Version	Direction	Period	Zone	MW Cap	Justification
2016-06-19 16:17:04	1	Decrement	OffPeak	Hainaut	0	Not enough production in the zone
2016-06-19 16:17:04	1	Decrement	Peak	Hainaut	0	Not enough production in the zone
2016-06-20 13:09:38	2	Decrement	OffPeak	Hainaut	40	Not enough production in the zone
2016-06-20 13:09:38	2	Decrement	Peak	Hainaut	40	Not enough production in the zone

Historical data 2010-2016

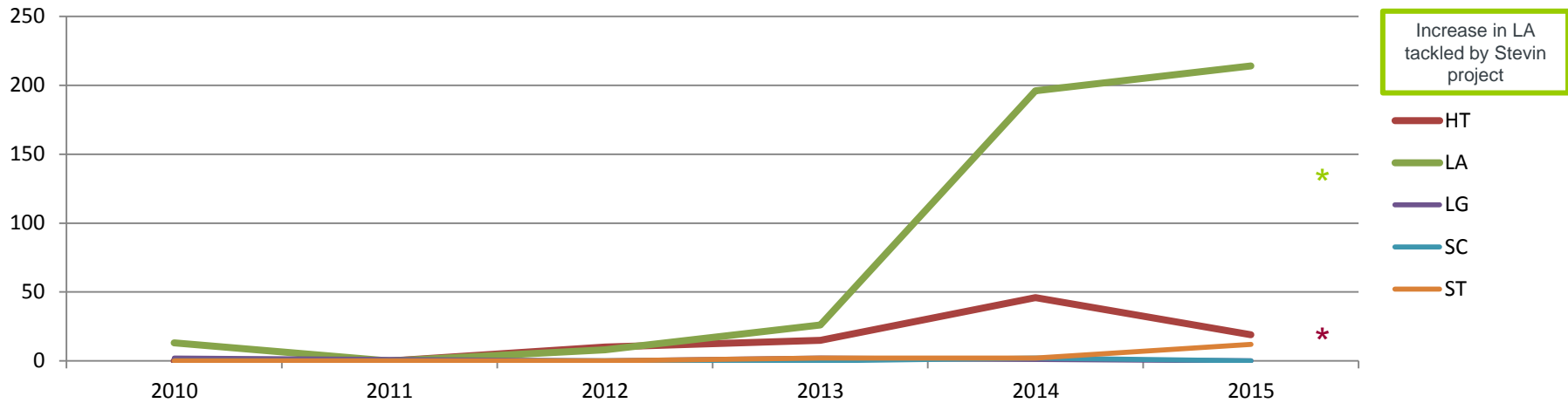
Historical data show that the number of red zones increased since 2014



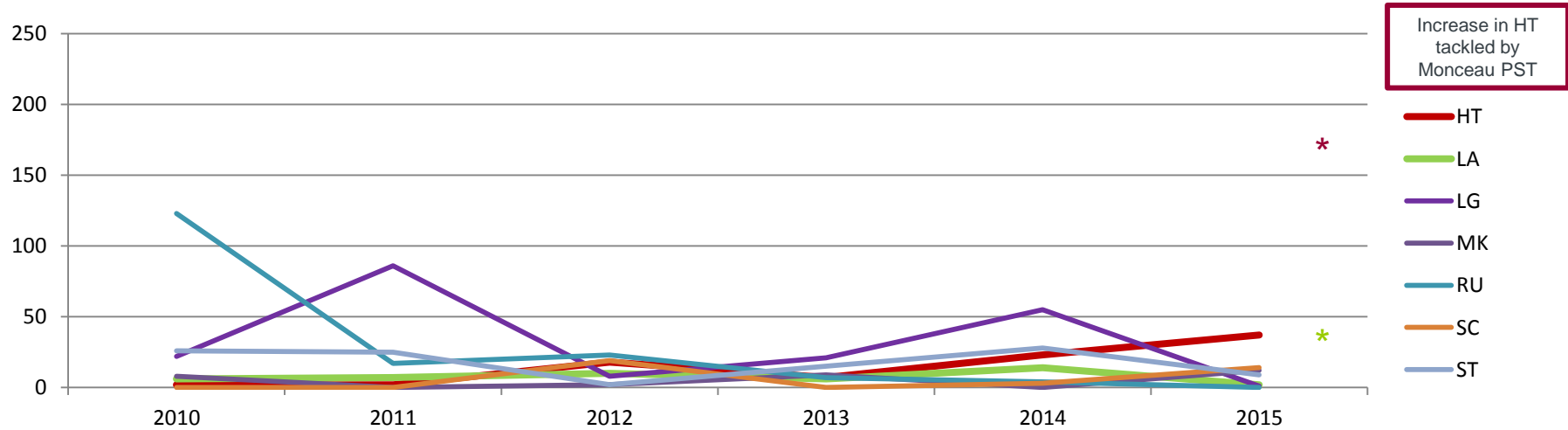
* Period from 01/16 to 07/16

Two zones are mainly impacted by the increase

Number on incremental Red Zones



Number of decremental Red Zones



* Period from 01/16 to 07/16

Possible evolutions of the concept

1. Resizing the zones to better fit with the last grid evolutions (localization of production and load hubs, variability of profiles). First analysis show an increase of 2-3 zones to bring the total to 10 zones.
2. Reviewing the period granularity to better fit with other product's time frames.

Congestion management check in BidLadder/R3

Congestion Management within Bidladder

Reminder: congestion is a local issue, linked to an access point/delivery point. It is not linked to a bid (size) and therefore locational info is necessary for each Bidladder (portfolio based) bid to detect a possible congestion constraint.

To ensure

- 1. a secure operation of the grid** → activation of a Bidladder bid for balancing by ELIA should not result in (activation of) congestion (bid)
- 2. a level playing field with CIPU free bids** → production units with $P_{\text{installed}} \geq 25\text{MW}$ must have CIPU-contract and a CIPU bid is a unit based bid subject to green/red zones policy by ELIA

→ ELIA may not consider delivery points with an $R_{\text{ref}} \geq 25\text{MW}$ that are located in a red zone when activating Bidladder bids.

How does it work?

- A BidLadder-user can enter all offers in the bidplatform and chooses the delivery points per bid. Bids can be adjusted until gate closure time.
 - “Green/Red zones” are determined by Elia (i.e. Period/ Electrical zone / Direction (I, D) / MWcap / justification)
 - All “green/red zones” will also be communicated to BidLadder-users via Probid B2B (xml).
- BidLadder-users have all information and can adapt their bids according to “Green/Red Zones” prior to gate closure time**

R3 and red zones

CIPU

- Unit-based activation (unit in one zone)
- If unit in Red zone
 - ➔ Skip unit in MO activation
 - ➔ Elia has always the possibility to activate if needed

Non CIPU

- Contract-based activation (DPs in different zone)
- If DP(s) with $R_{ref} > 25$ MW in red zone
 - ➔ Skip corresponding contract
 - ➔ Elia has always the possibility to activate if needed
- If activation (of contract with DP(s) > 25 MW in red zone) is needed:
 - Elia calls the BSP to request an activation of the contract except the DP(s) > 25 MW in red zone
 - Volume requested / to be supplied takes into account non activation of DP(s) > 25 MW in red zone

Conclusion

- Congestion management includes application of green/red zones policy.
- Principles of green/red zones policy are described in CIPU-contract and applicable to production units as from D-1 18h on change of production programs (cf. procedure for submission of IDPCR within CIPU-contract)
- Green/Red zones policy applicable for PU with $P_{\text{installed}} \geq 25\text{MW}$
- Within Bidladder, green/red zone policy applicable for Delivery Points (DP) with flexible power ($R_{\text{ref}} \geq 25\text{MW}$)
- For R3 activation
 - with CIPU-units → green/red zones policy applicable (cf. CIPU procedure)
 - With non-CIPU-units → green/red zone policy applicable for Delivery Points (DP) with flexible power ($R_{\text{ref}} \geq 25\text{MW}$)

Level playing field applicable between Production Units and Delivery Points within R3/CIPU (unit based) bids and R3/Bidladder (portfolio based) bids.

Many thanks for your attention!

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