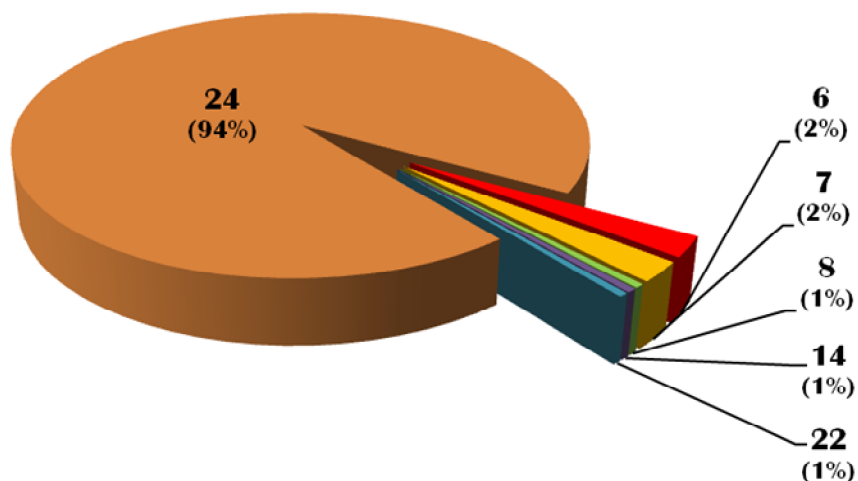


CORESO OPERATIONAL REVIEW 2009

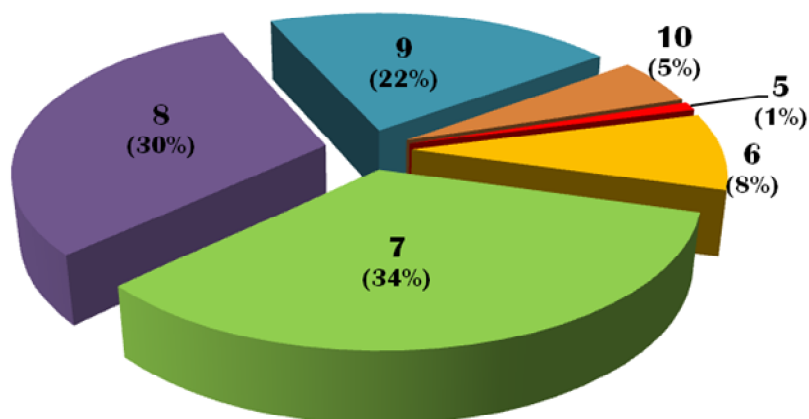
CORESO PERFORMANCE STATISTICS SINCE JUNE 2009	2
CWE D-1 COMMERCIAL EXCHANGES	3
CWE VERTICAL LOAD PEAK SINCE MARCH 2009	4
2009 CWE STRESS LEVEL	4
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Coreso performance statistics since June 2009

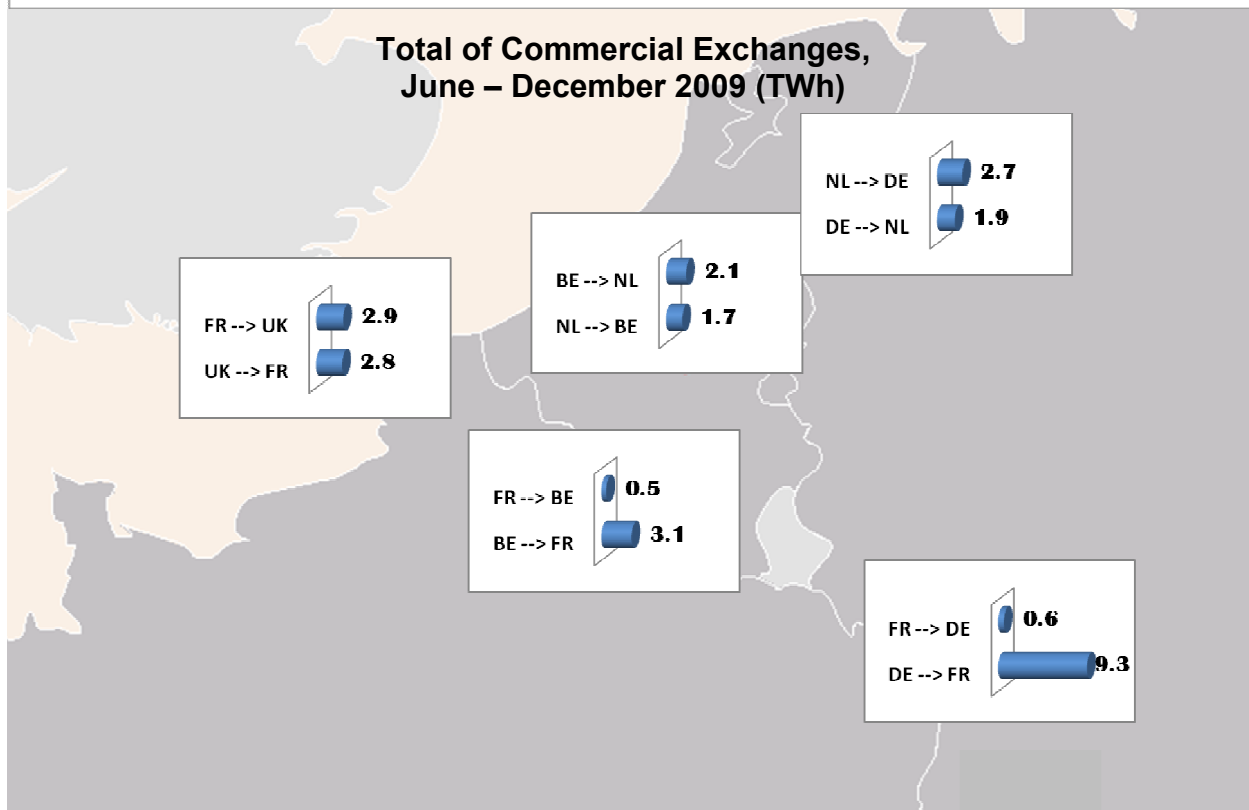
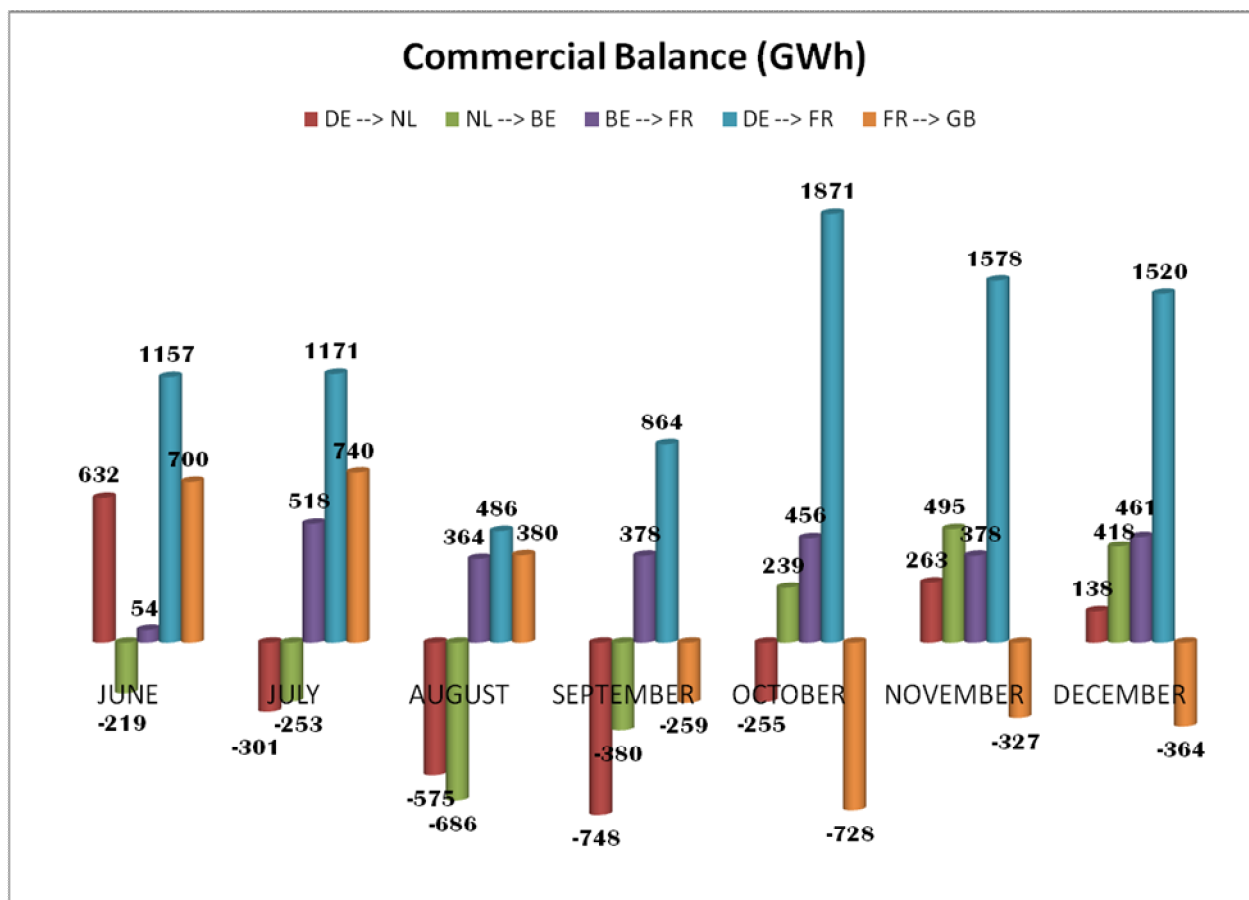
Number of Timestamps merged in D-1,
June - December 2009



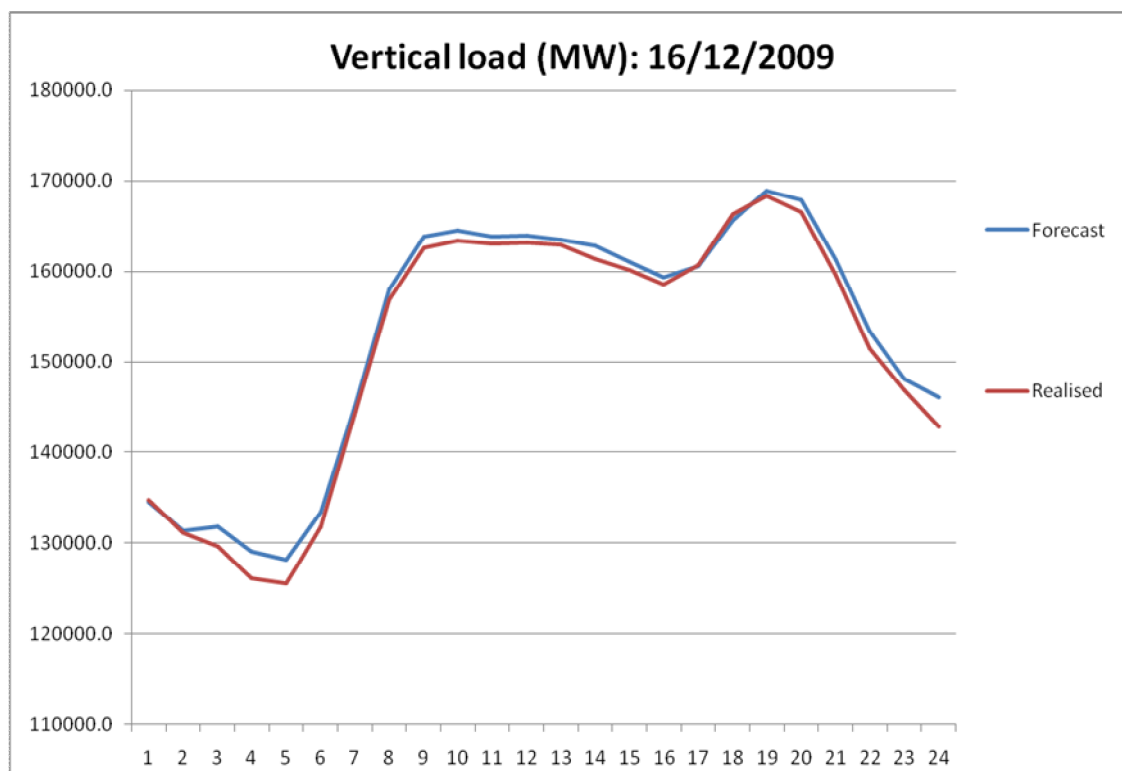
Number of Security Analyses performed in D-1,
June - December 2009



CWE D-1 Commercial exchanges



CWE Vertical load peak since March 2009

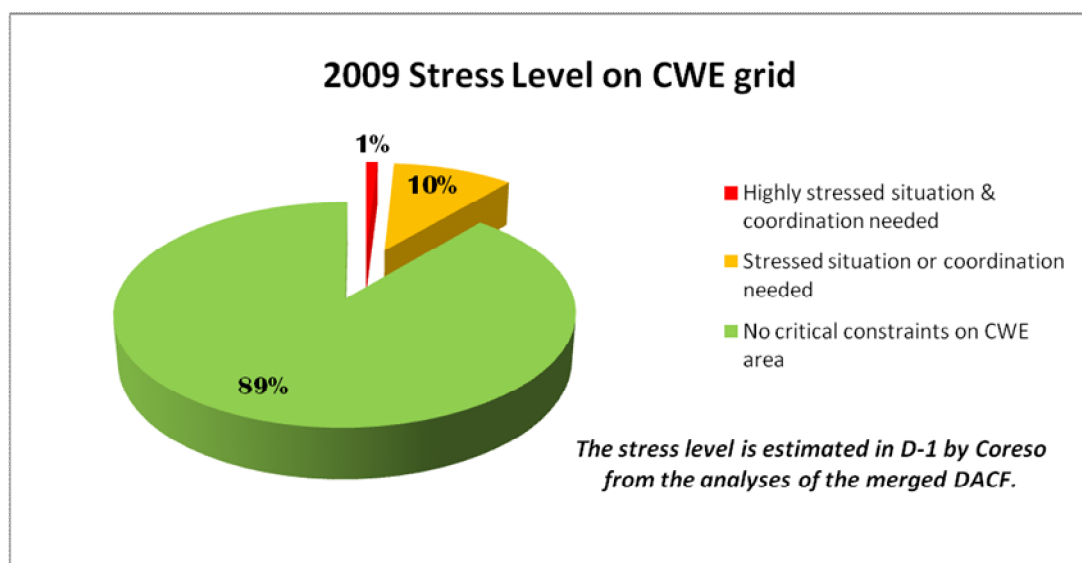


Vertical load peak of 168 300 MW between 18:00 and 19:00 (hourly average).

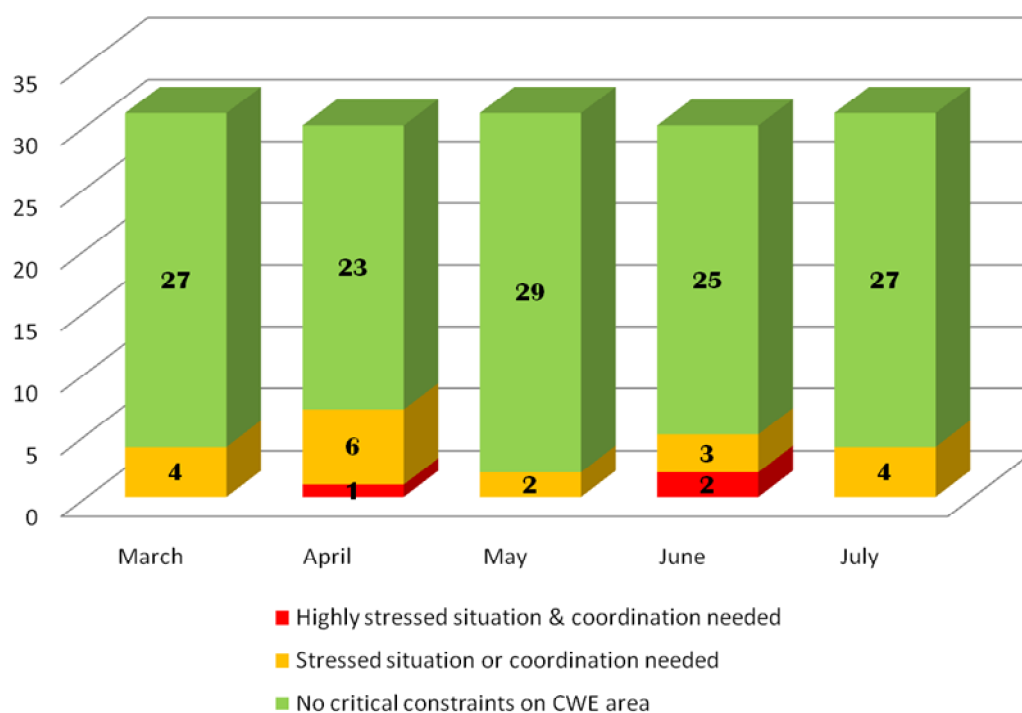
Aggregation of Belgian, Dutch, French, German and Luxembourg (included in BE and DE) vertical loads (hourly average).

Vertical load is the sum of all flows out of the transmission grid via directly connected transformers to distribution grids or other consumers.

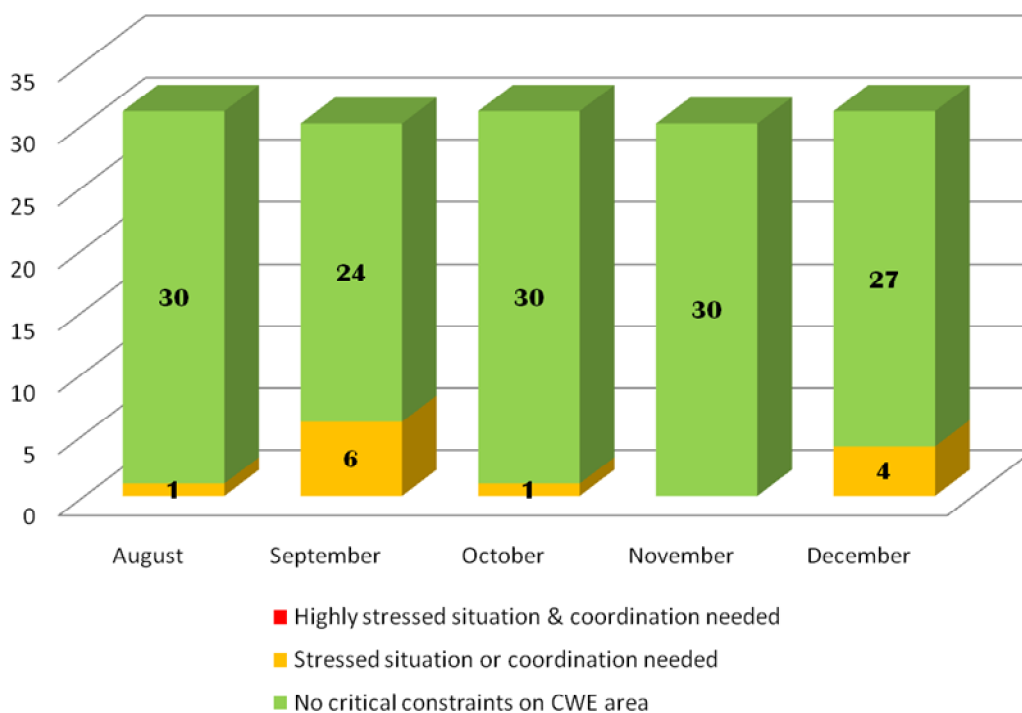
2009 CWE Stress level



CWE Stress Level statistics, March - July 2009



CWE Stress Level statistics, August - December 2009



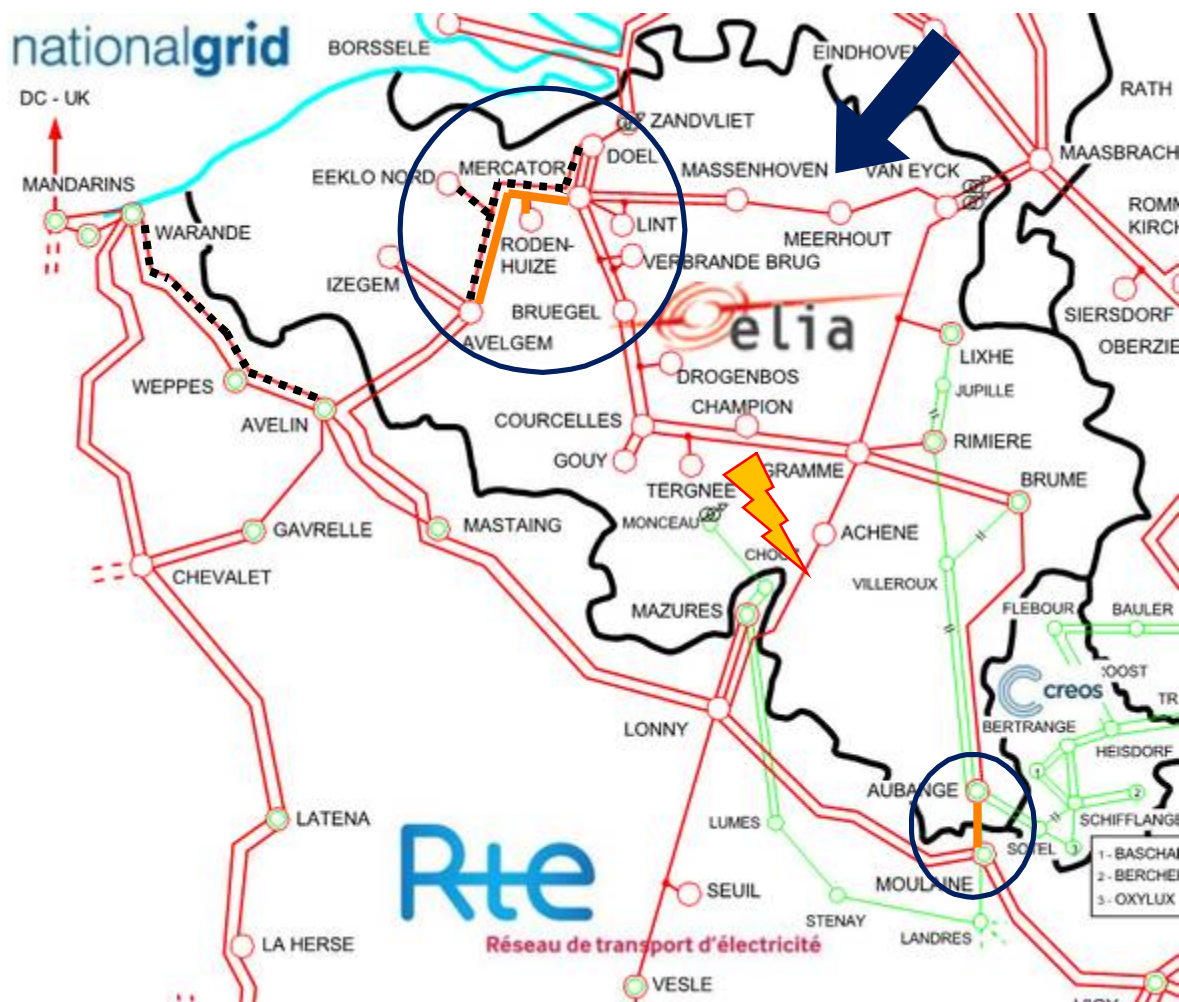
Most stressed situations on the CWE grid in 2009

 **April the 30th**

Context: combination of the Warande – Avelin – Avelgem - Doel (RTE - ELIA) axis planned outage, the strike in EDF Company in France and high export from Netherlands to Belgium and Germany due to a bank holiday in the Netherlands (Queen's day).

Day-ahead foreseen situation: high north to south loopflows through Belgian grid and deep constraints on both Moulaine-Aubange 225kV tie-line and Avelgem – Mercator 74 380kV line, in case of line or busbar tripping in the Lonny and Achene area.

CORESO proposal: preventive tap modification on Belgian PST and topological modification in Lonny 380kV substation (both actions applied in real time). Coreso also advised ELIA and RTE that any increase of commercial exchange from Germany to France had to be considered in close coordination with Amprion.



June the 10th

Context: combination of the Mercator busbar 1 planned outage and important export from Germany to the Netherlands and France.

Day-ahead foreseen situation: high north to south loopflows through Belgian grid and inadmissible constraints in Doel area in case of busbar tripping in Mercator.

CORESO proposal: preventive asymmetrical tap modification on Belgian PST to decrease the flows in Doel area (applied in real time). Coreso highlighted the importance of close coordination between RTE, Elia and Amprion in case of exchange program modification.

June the 24th

Context: combination of planned outages in Mastaing and Avelin 380kV substations and important export from Germany to France.

Day-ahead foreseen situation: very high north to south loopflows through Belgian grid (about 2300 MW) and inadmissible constraints (even after Belgian PST tap modifications) on the 380kV northern French grid in case of line or busbar tripping in Avelin and Mastaing area.

CORESO proposal: preventive tap modification on Belgian PST and topological modification in Gavrelle 380kV substation (both actions applied in real time). Finally, in real time, the return of the Avelin – Lonny 380kV line was asked earlier than scheduled by RTE, to manage potential constraints.

