

Flow-Based Market Coupling : First Operational Results

EMD WG

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Latest achievements

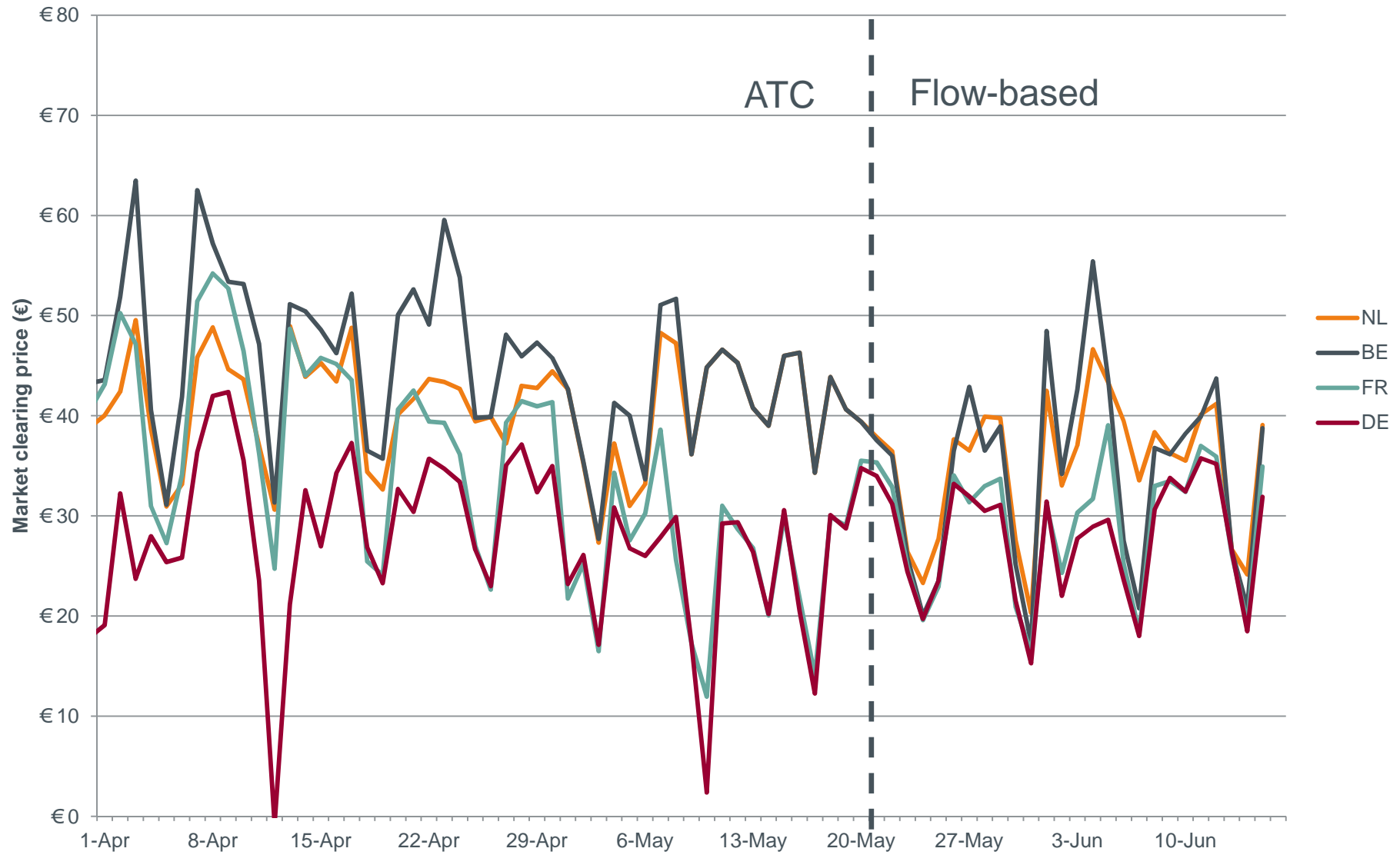
20/05/2015 (trading day): successful launch of the CWE Flow-Based capacity calculation and allocation

Throughout the project, Project Partners shared information about CWE project and discussed Market Parties requests via FBUG meetings.

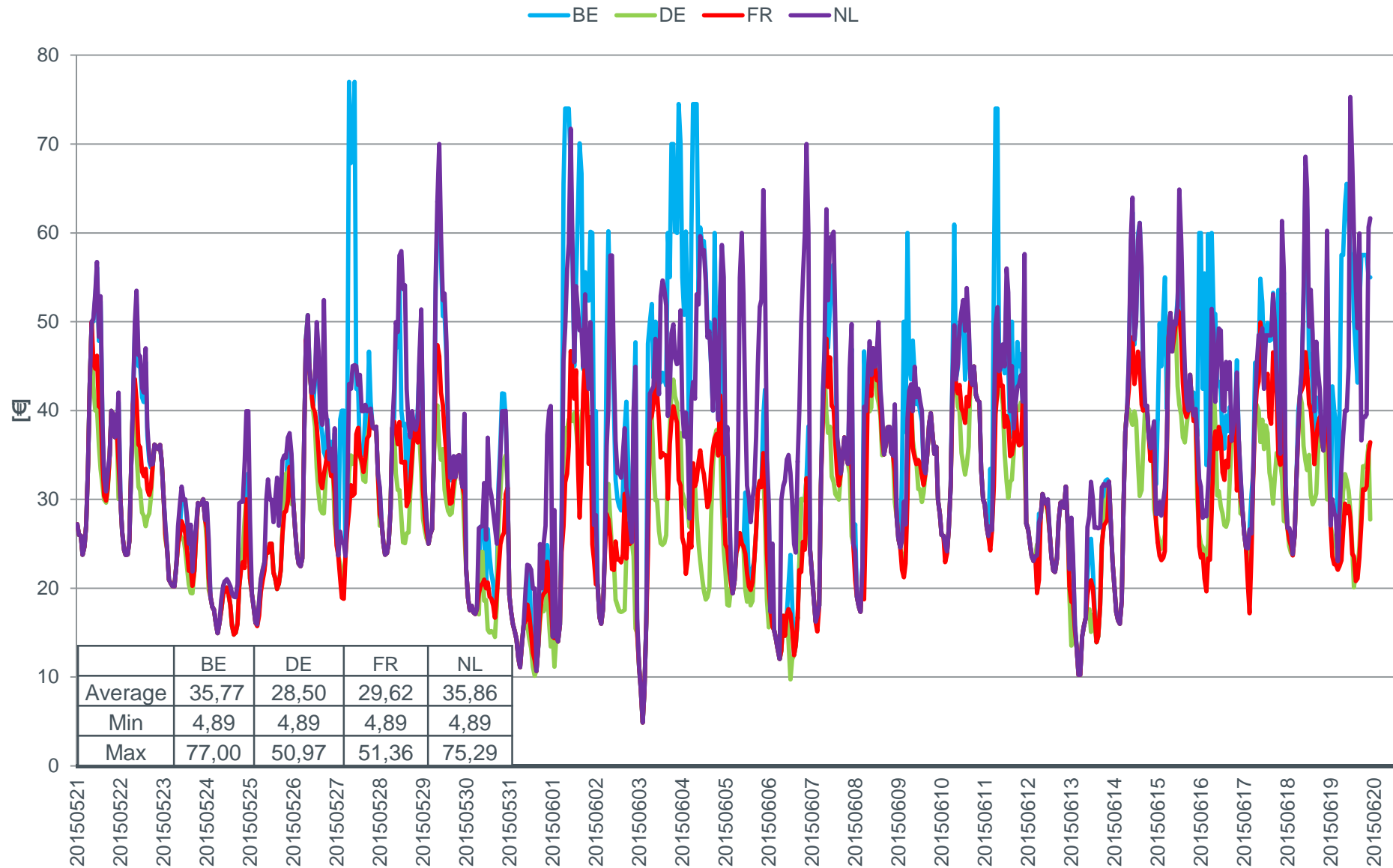
The FBUG will be succeeded by the CWE consultative group, which will first meet 30 June in Brussels. The aim of this Forum will be to provide information to stakeholders and gather their feedback about Flow-Based performance and market outcomes as well as on upcoming changes and future evolutions.

This group will gather CWE partners' representatives, a panel of Market Participants (FBUG members and associations) as well as NRAs.

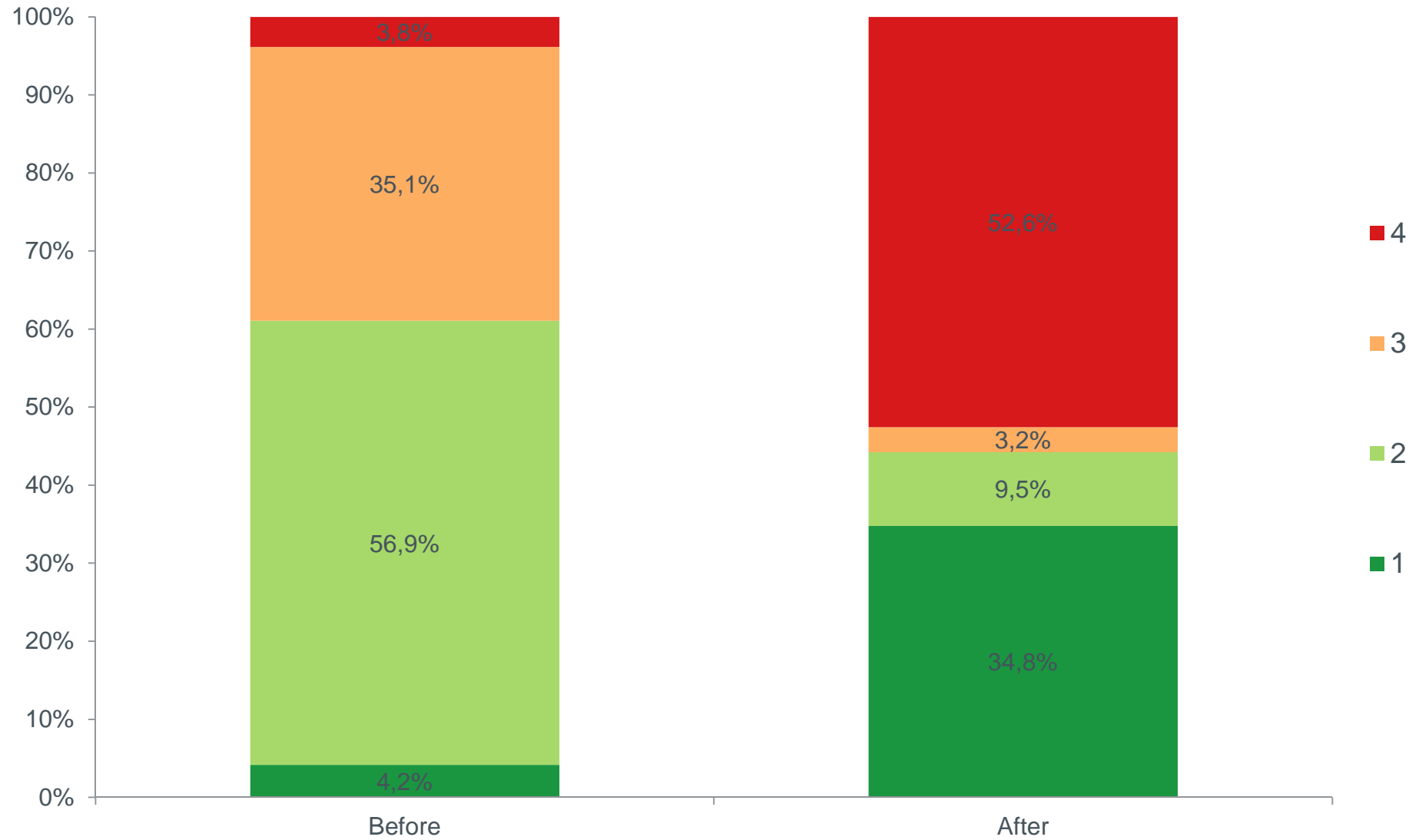
Baseload Prices [€/MWh]



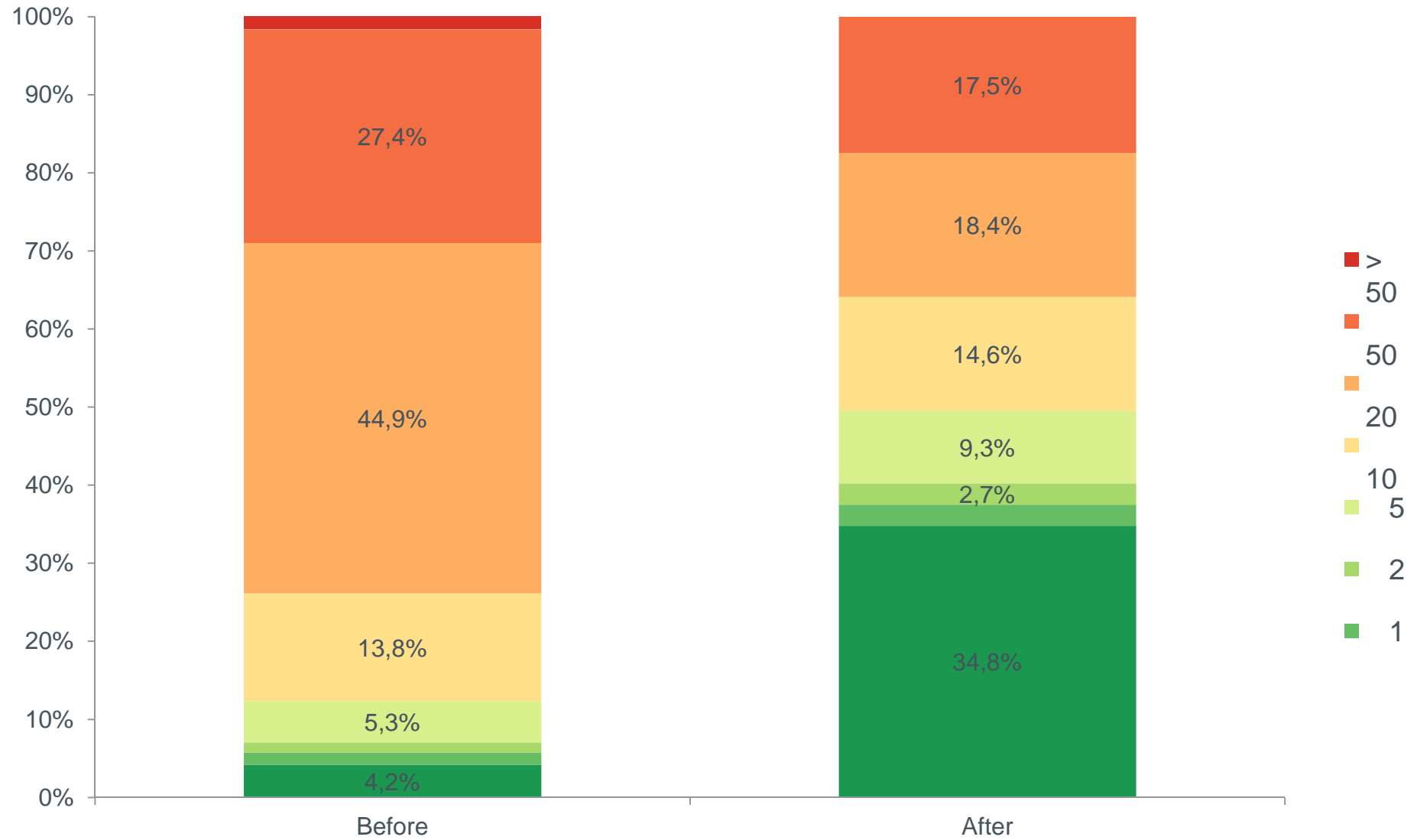
Hourly Market Prices [€/MWh]



Number of CWE price areas (26/26 days)



CWE price spread (26/26 days)



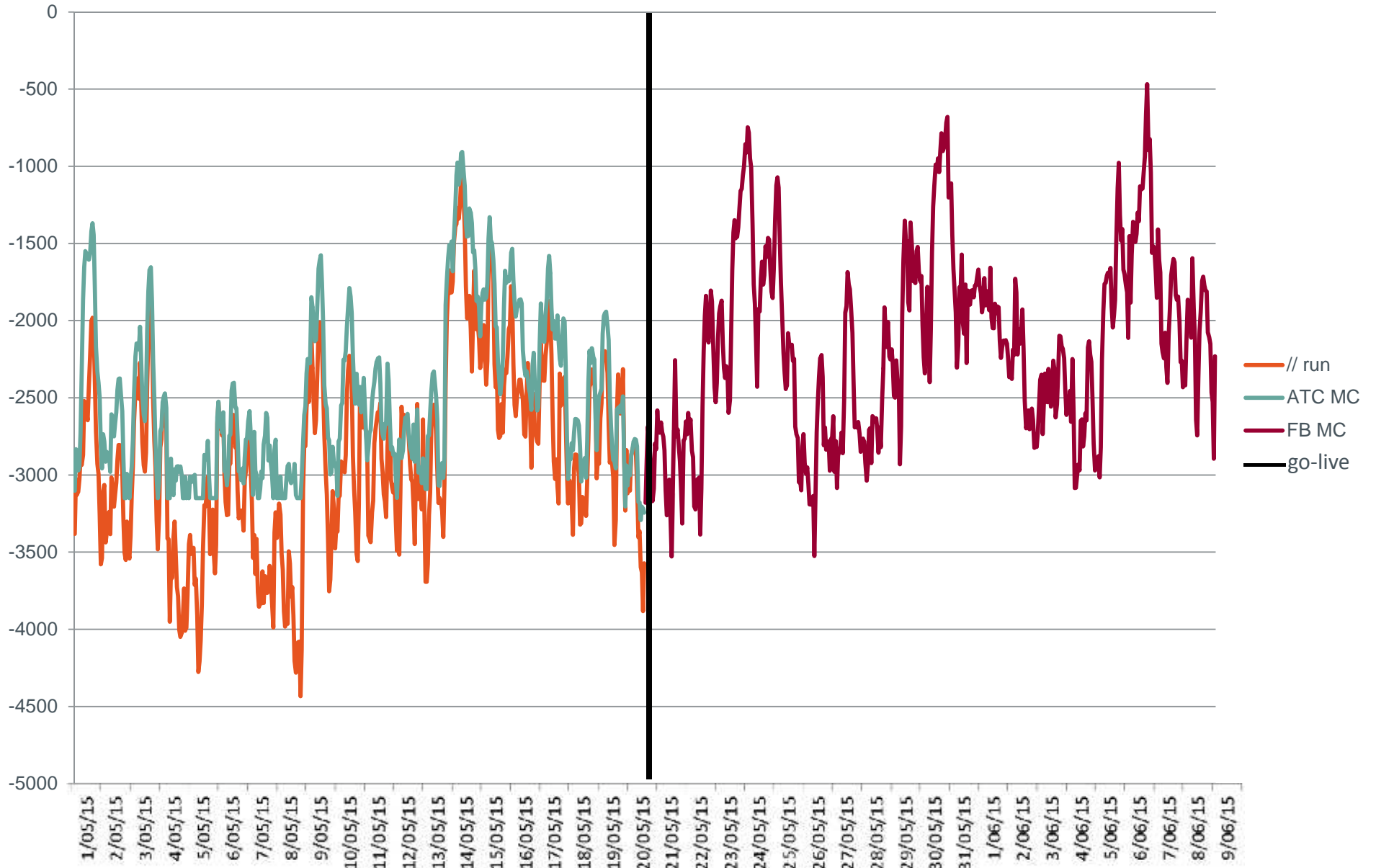
FR-BE price spread (26/26 days)



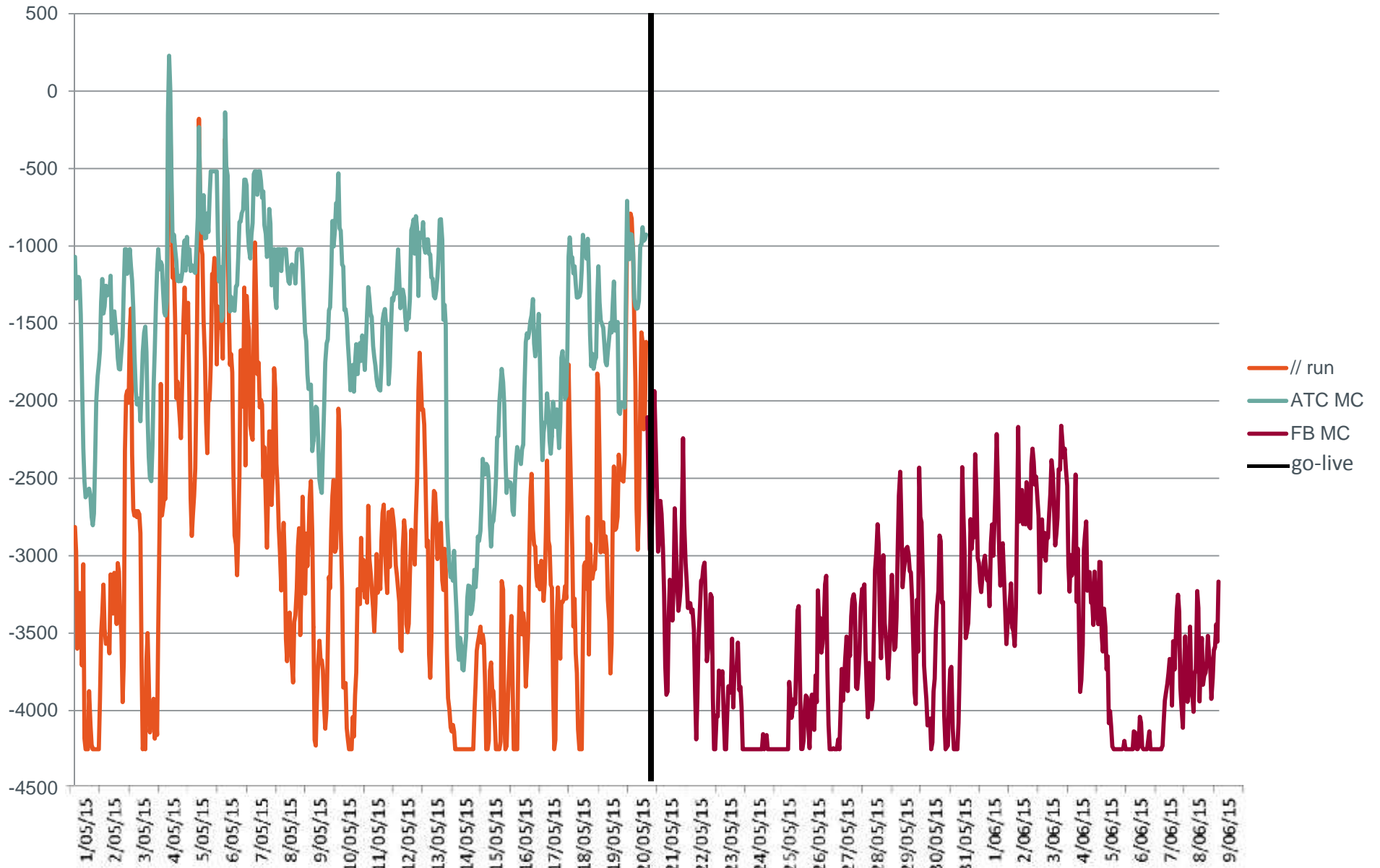
BE-NL price spread (26/26 days)



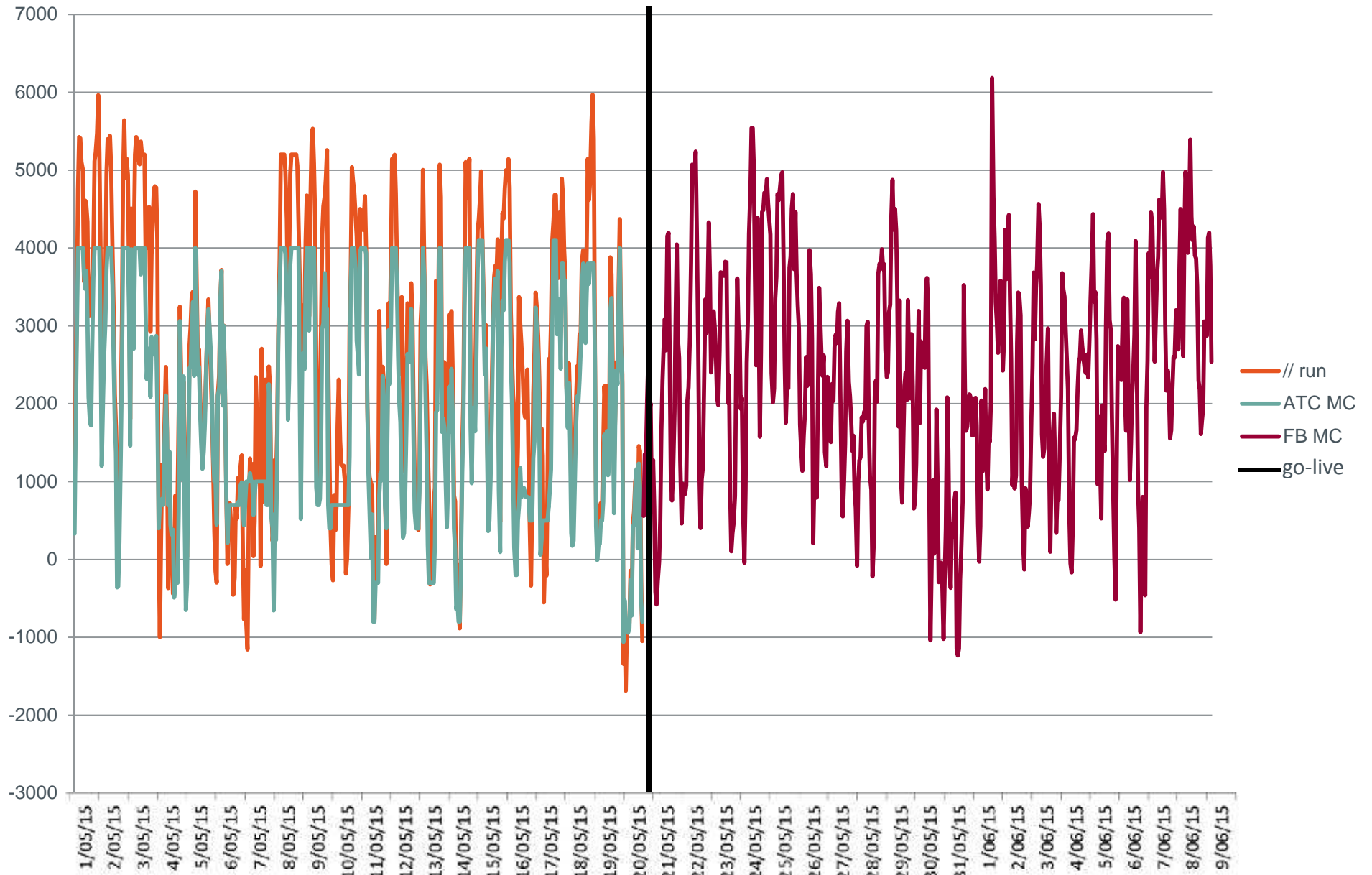
Net Position BE



Net Position NL



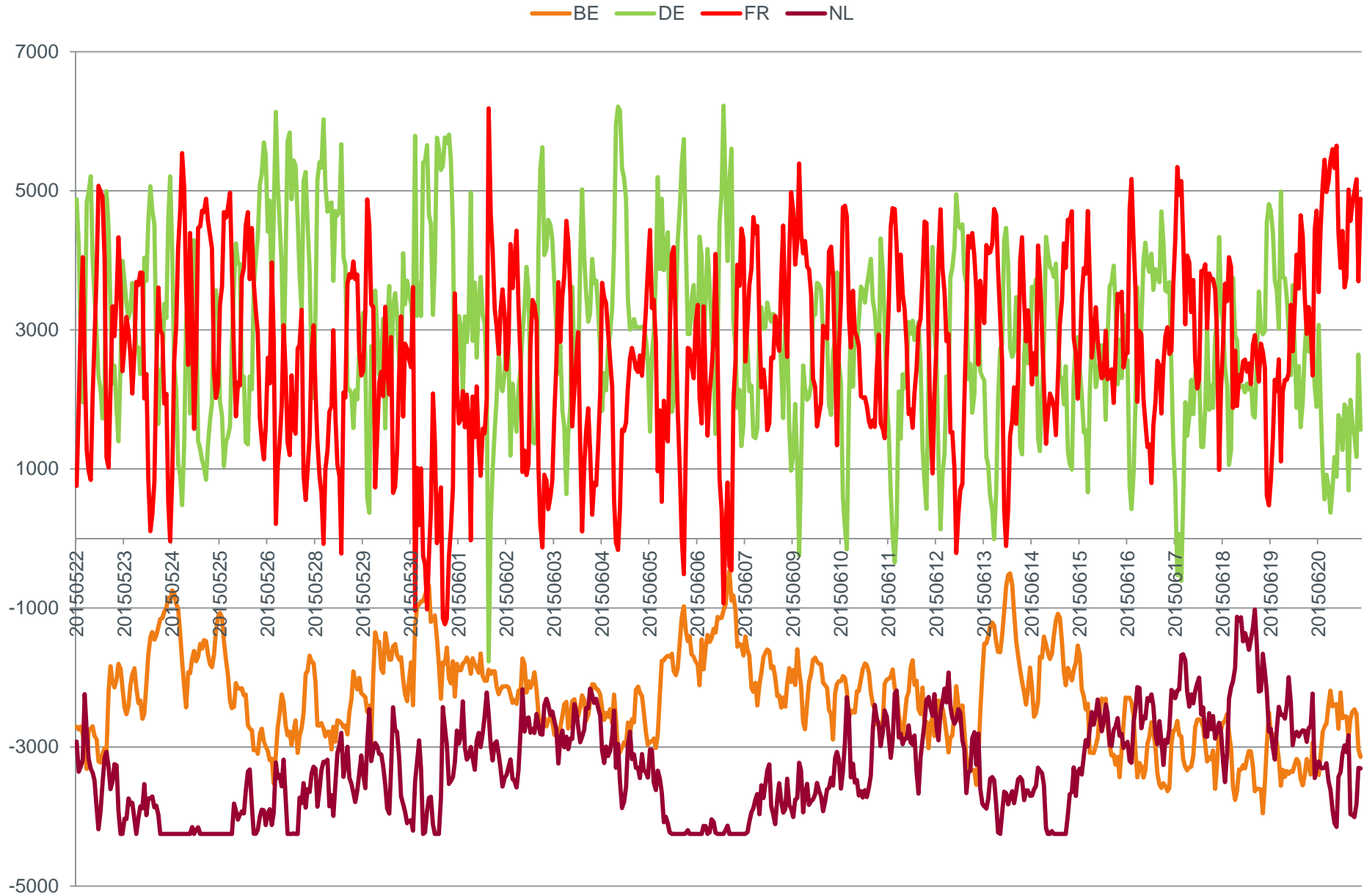
Net Position FR



Net Position DE



Net Positions



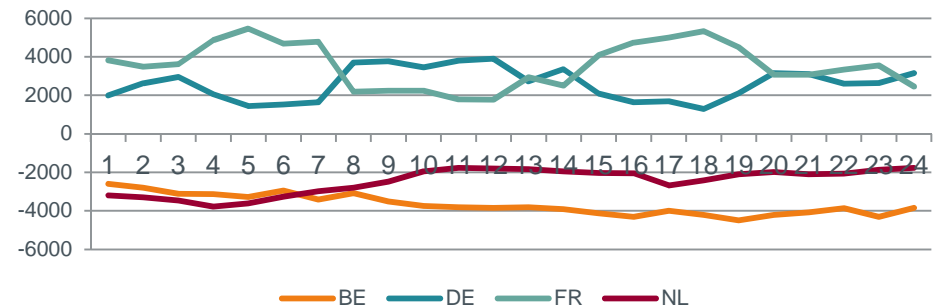
Max BE import - 22/06/2015 18-19h

Belgian import of 4500 MW => about 42% of the total load

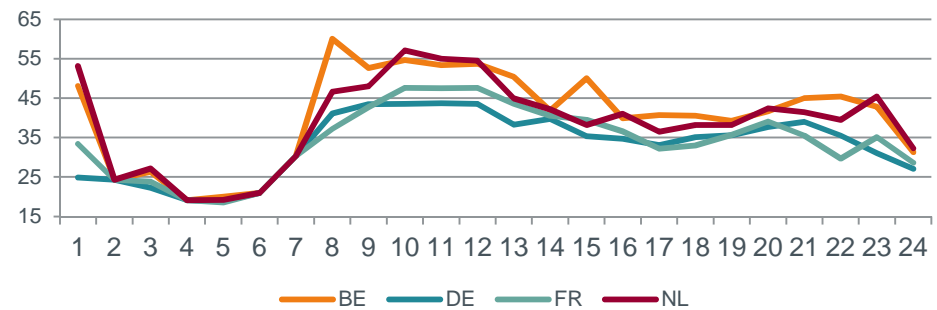
Flow-Based Market Results:

20150622 Hour	Net Position				Market Price			
	BE	DE	FR	NL	BE	DE	FR	NL
17	-3993	1685	4991	-2684	40,7	33,04	32,16	36,45
18	-4204	1285	5332	-2412	40,54	35,09	32,98	38,19
19	-4500	2099	4500	-2099	39,21	35,59	35,67	38,2
20	-4219	3142	3068	-1991	41,64	37,69	39,05	42,44
21	-4071	3098	3073	-2100	45	38,99	35,47	41,4
22	-3867	2598	3332	-2064	45,37	35,5	29,69	39,46

20150622 - Net Positions [MW]



20150622 - Prices [EUR/MWh]



Physical flows were higher in real-time than expected in D-2.

Strong coordination efforts were necessary to ensure grid security (N-1).

First operational feedback

As foreseen, the price convergence in CWE has significantly increased since the go-live.

As foreseen, physical flows induced by market exchanges are better forecasted with Flow-Based Market Coupling, which increases grid security.

But on the other hands, net positions are different that what was observed with ATC MC:

- NL imports more;
- DE exports more;
- FR can export more;
- BE can import more.

With Flow-Based, physical flows are more variable/volatile and are regularly loading the grid elements closer to their limits. (This may also limit the capacity available for ID exchanges).

The maximum BE import value was reached on Monday 22/06/15 between 18 and 19h.

Please remind that with Flow-Based, capacity is not allocated per border anymore => only the net positions have a physical sense. The commercial flows (“bilateral exchanges”) have no physical meaning and should not be used as a reference.