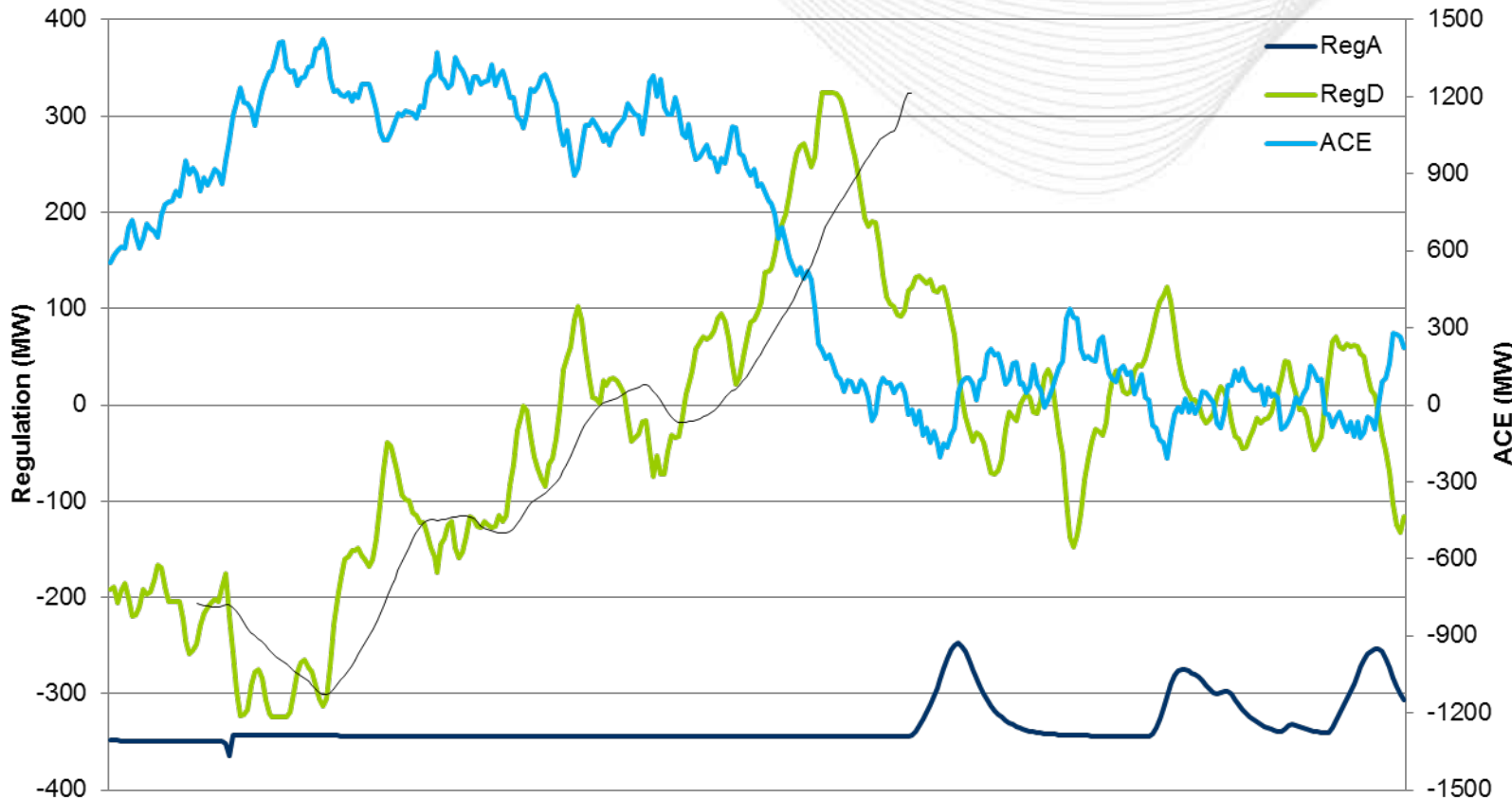


Example 1:  
10/20/2014 08:00-09:00

- ACE is low (-760 to -200)
- RegA is in full raise (~210MW)
- RegD is dropping off (~286MW to ~-170MW)
- RegD % 75

Reliability challenges to managing system control can occur during times when there is a large percentage of RegD MWs providing regulation. This issue is caused by the RegD control signal moving in the opposite control direction than desired by dispatch



Example 2:  
11/12/2014 18:00-19:00

- ACE is high (-1425 to -690)
- RegA is in full lower (~340MW)
- RegD is ramping up
- (~-320MW to ~320MW)
- RegD % 45

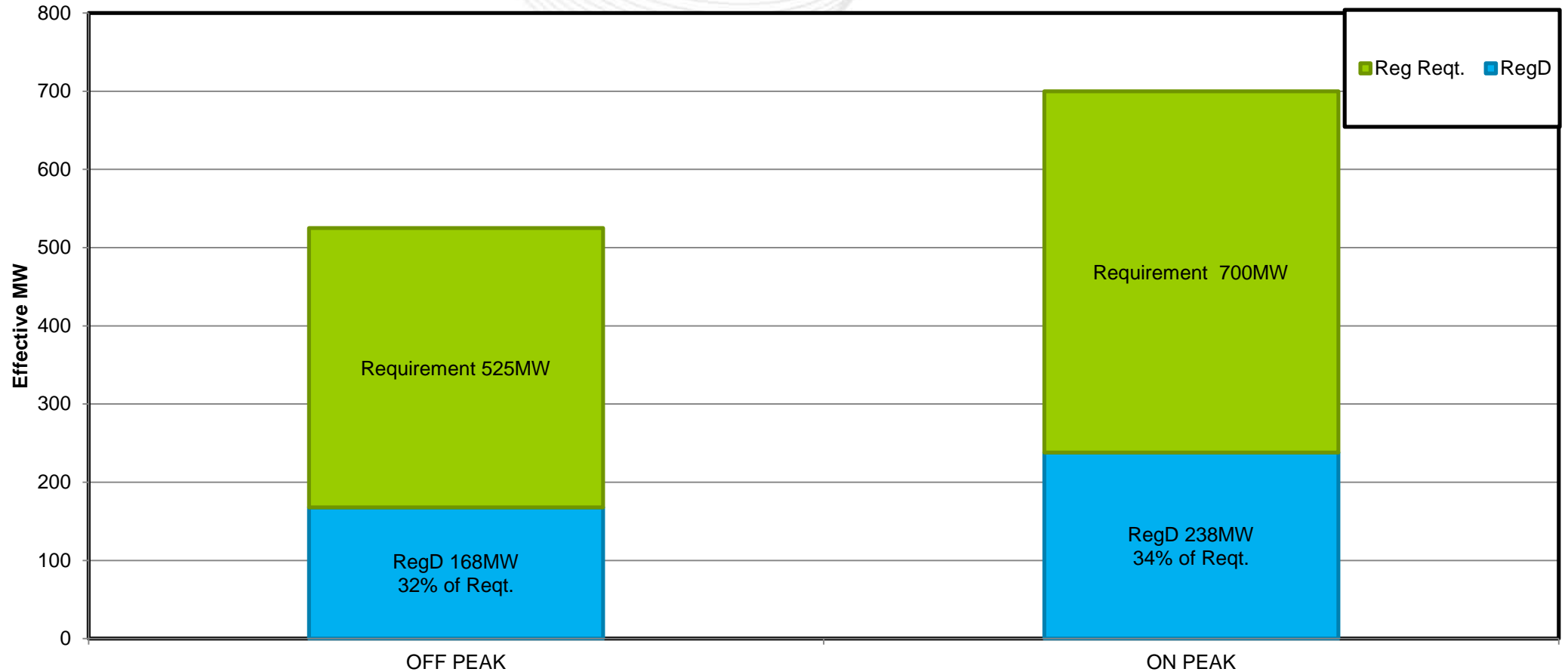
Reliability challenges to managing system control can occur during times when there is a large percentage of RegD MWs providing regulation. This issue is caused by the RegD control signal moving in the opposite control direction than desired by dispatch

Resource MW breakdown qualified for Regulation D Market

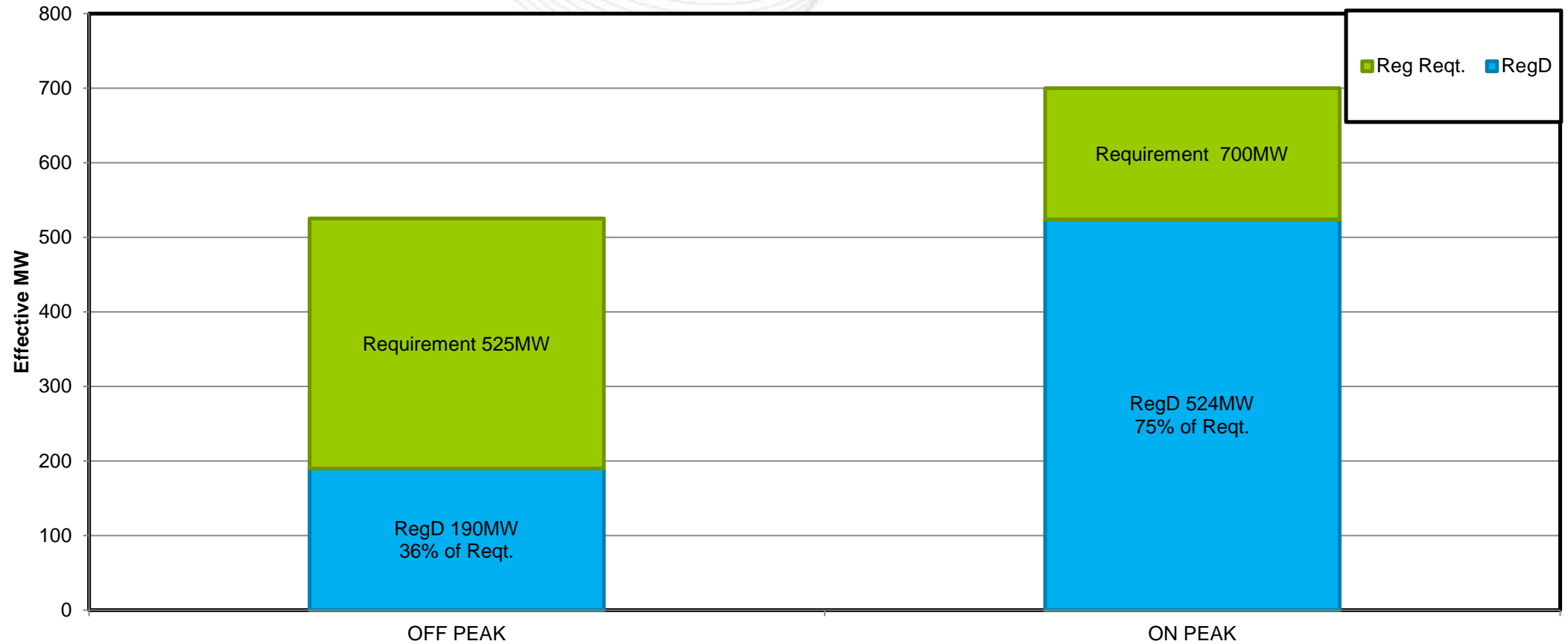
<b>Resource Type</b>	<b>MW</b>
Battery/Storage	136
DSR	14
Hydro	420

\*Note: Some Batteries also in DSR

# Average Hourly RegD Participation in Regulation



# Maximum Hourly RegD Participation in Regulation



<b>RegD On/Off Peak</b>	<b>Average RegD %</b>	<b>Maximum RegD %</b>
On Peak	34	75
Off Peak	32	36