Pre BM Actions

## The Issue

- DAM Gate Closure will be 11:00
- Notifications to the TSO will be circa 14:00
- Trading Day starts at 23:00
- Notifications received 9h before the trading day starts
- A number of plants have cold start times outside 9 h (excludes sync to min gen)



## Start Times

| Unit | Type | Notification Times <br> (time to Sync.) Hrs |  |  |
| :--- | :--- | :--- | :--- | :--- |
|  |  | Hot | Warm | Cold |
| MP1 | Coal | 5 | 8 | 15 |
| TB4 | Oil | 3 | 7 | 10 |
| DB1 | CCGT | 2 | 3.5 | 5 |
| HNC | CCGT | 3 | 5 | 9 |
| WG1 | CCGT | 3 | 5 | 12 |
| TYC | CCGT | 3 | 5 | 10 |
| LR4 | Peat | 6 | 12 | 12 |
| AT1 | OCGT | 0.33 | 0.33 | 0.33 |
| TP1 | OCGT | 0.17 | 0.17 | 0.17 |

+ Time to get to min load and ramp up



## Potential Solutions

- TSO will need the ability to contract with generators before notifications are received at 14:00
- Should not be a regular occurrence but needs to be catered for
- Potential Options

1. TSO negotiates pre BM contacts with individual plants that have a very long cold start time
2. TSO holds competitive bidding process for a number of long cold start plants

## What would the TSO procure

- These contracts should cover the costs of getting a plant warm or started and onto the system
- Not a capacity contract
- Form of product to be procured
- $€ / £ x$ to bring the plant state from cold to warm/hot
- $€ / £ x$ to get on the system at min stable level within $x$ hours
- Subsequent actions taken through BM
- $€ / £ x$ to be on the system at $x$ MW level within $x$ hours and to stay at that level for $x$ hours
- Stays out of BM until obligations to the TSO end


## Potential Principles for Pre BM Actions

- As market based as possible
- Avoid distortion of the BM
- Avoid long term contracts
- Should provide an incentive to reduce start times where possible

