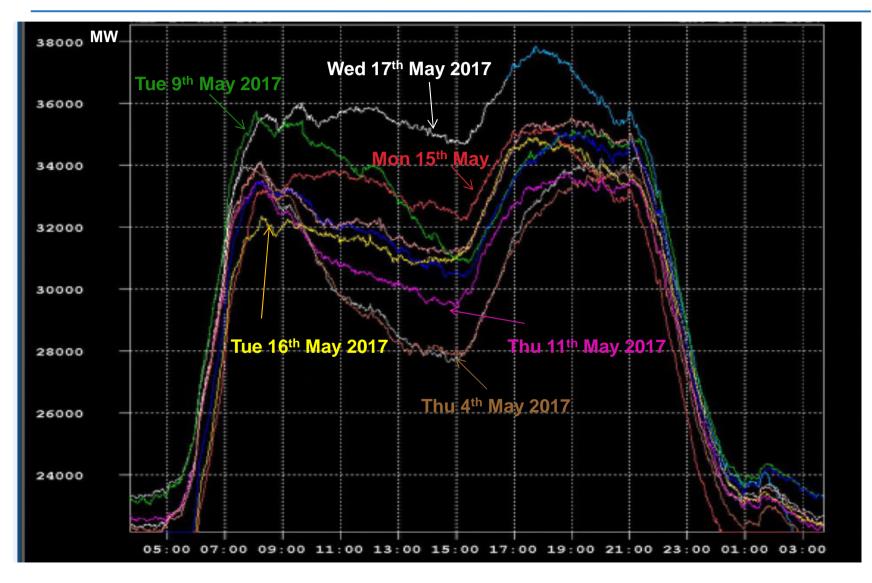
#### **On-the-day decisions in the Control Room**

Angela Wilks Brendan Lyons Operational Managers

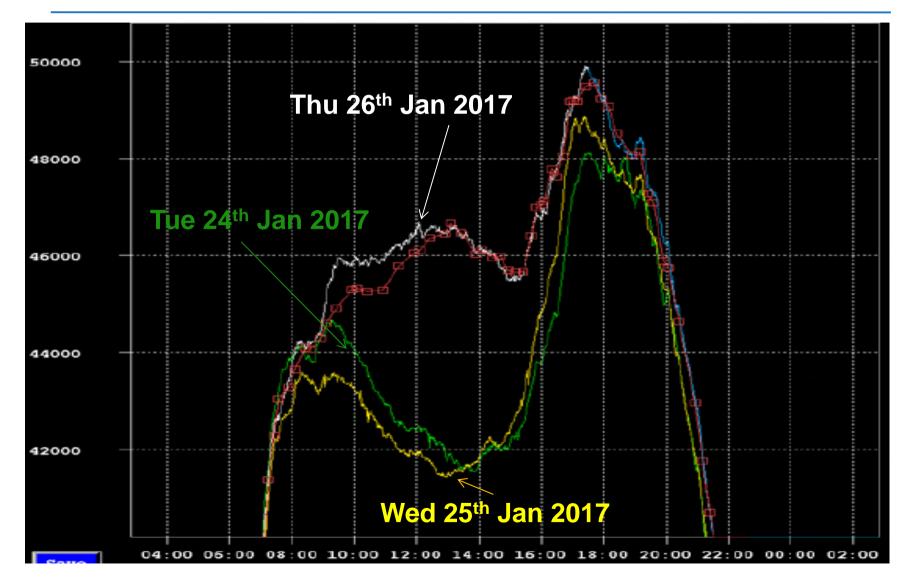
### System complexity

- Higher levels of renewable generation
- Demand variability
- Conventional generation being displaced
- Low system inertia
- Less system flexibility

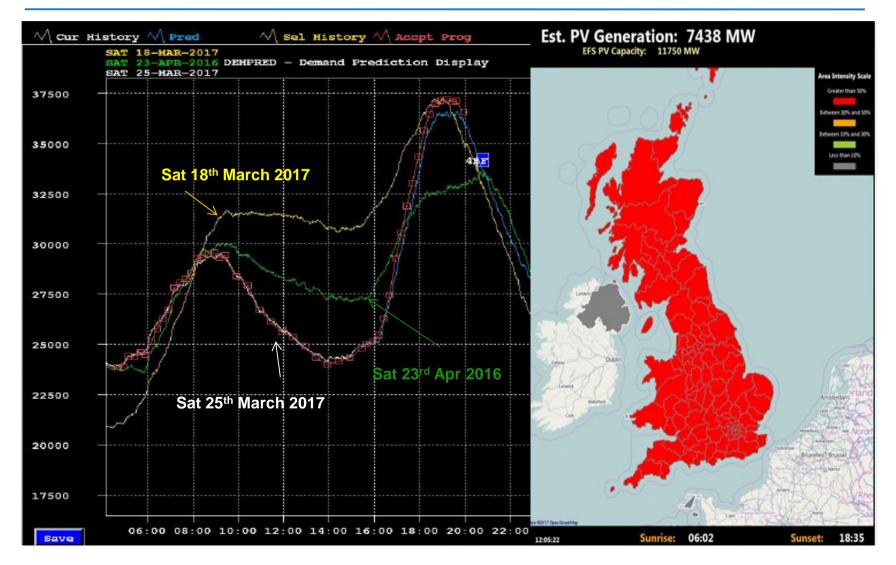
#### **Demand curve May 2017**



#### What a difference a day makes



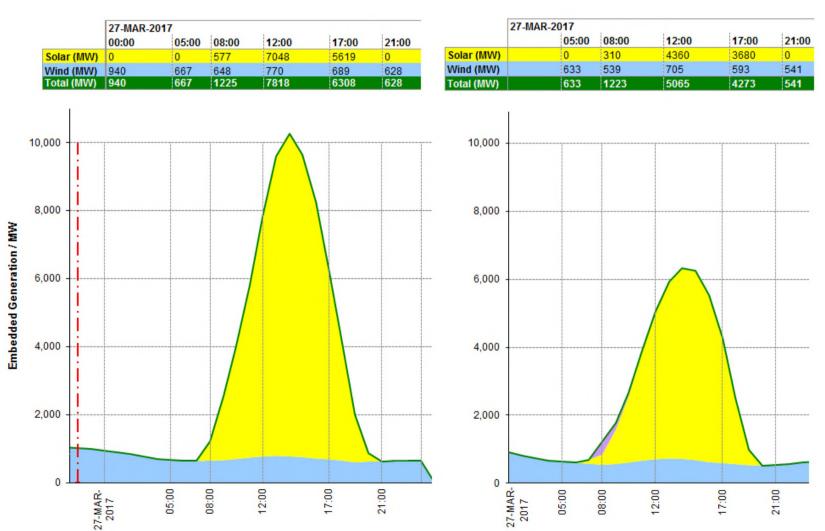
#### Saturday 25 March 2017 was 'sunny'



### **Operational challenges 25 March 2017**

- Thermal & Voltage Constraints
- Low System Inertia
- Frequency Response Requirements at low demand
- Negative Regulating Reserve Requirement
- Decisions impacting evening peak strategy

### Monday 27 March 2017 was 'not too sunny'



Forecast

#### Actual

#### Key messages

- Energy diversity leads to a wide range of demand profiles and operational challenges
- Wide range of operational tools and strategies available which enables secure and economic system operations
- Actions we take can sometimes appear confusing or expensive but this isn't deliberate