

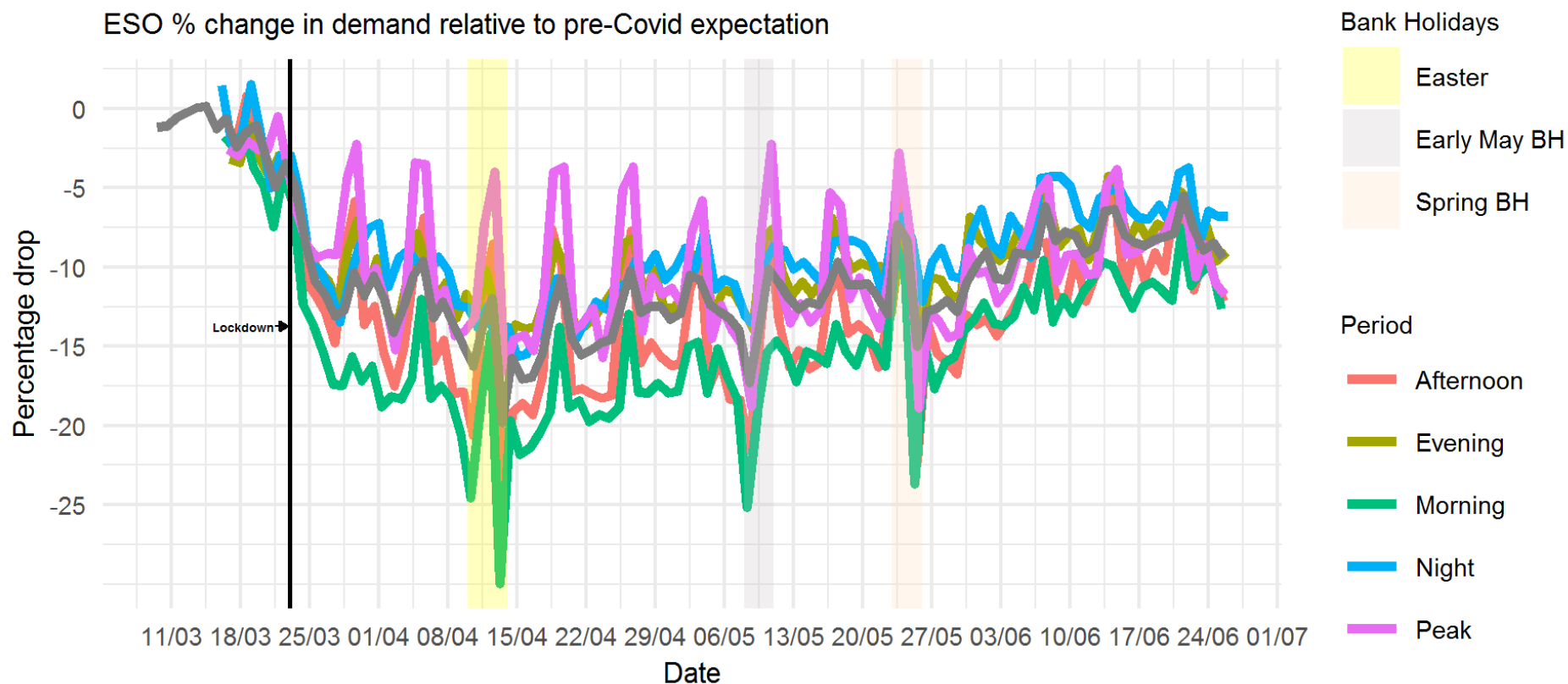


National Grid ESO

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Effect of Lockdown on GB Demand



Consequences

Positives:

- huge rise in % of renewables
- over 2 months with no coal
- reduction in whole sale electricity costs

Cons:

- reduction in inertia requiring significant market intervention (15 to 20 synchronous machines)
- increase in balancing costs

What have we done

- new market product – to provide downward regulation ability to buy off embedded generation or buy in demand
- Clarified Emergency Instruction rights to disconnect embedded generation

Long-term

- Replacing protection on upto 50,000 embedded generators
- Procuring grid stability and inertia services in the market
- Zero carbon Operation by 2025