

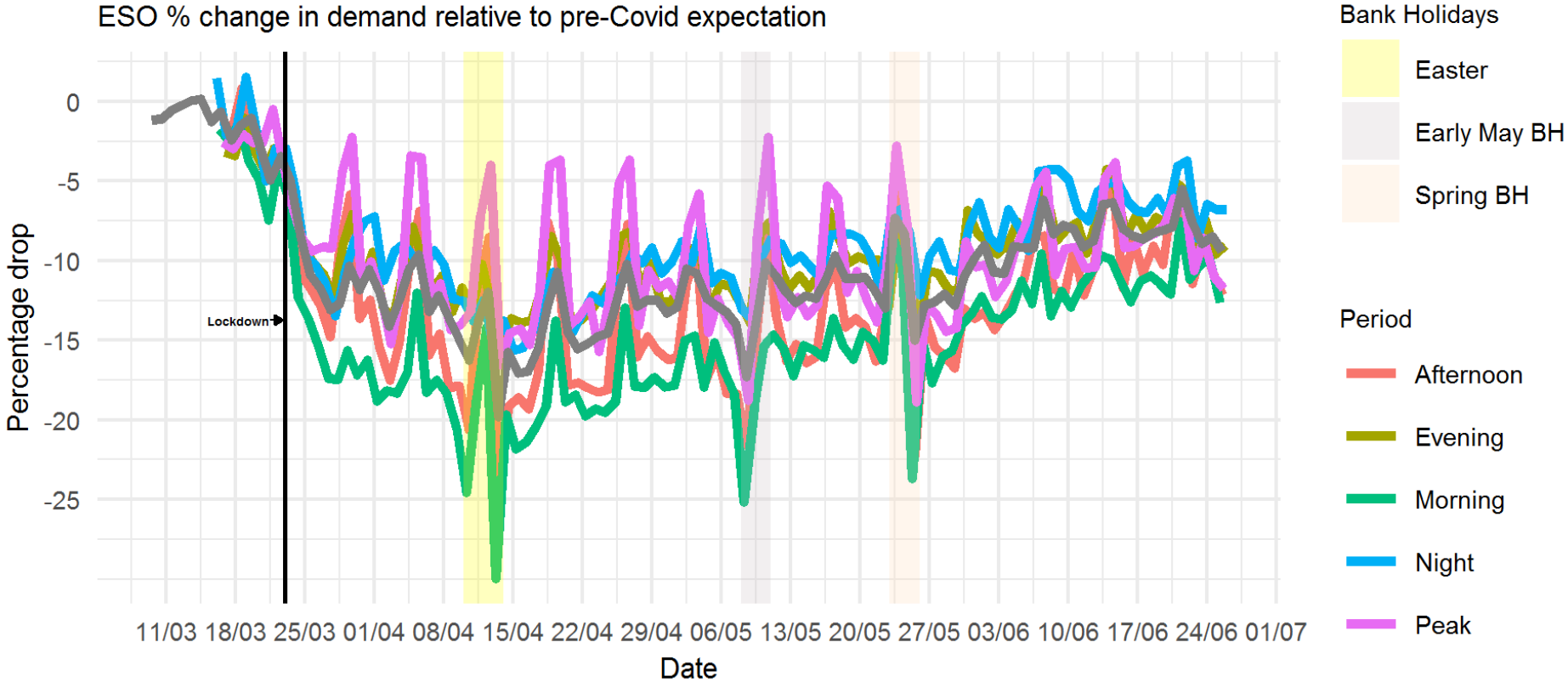
A landscape photograph of a mountain range under a cloudy sky. The sun is low on the horizon, creating a golden glow. Several bright, glowing yellow and orange lines, resembling energy or data streams, curve across the foreground and middle ground, starting from the left and moving towards the right. The mountains in the background are partially covered in snow.

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