

## Summer 2020 in Great Britain: A view of future residual demand?

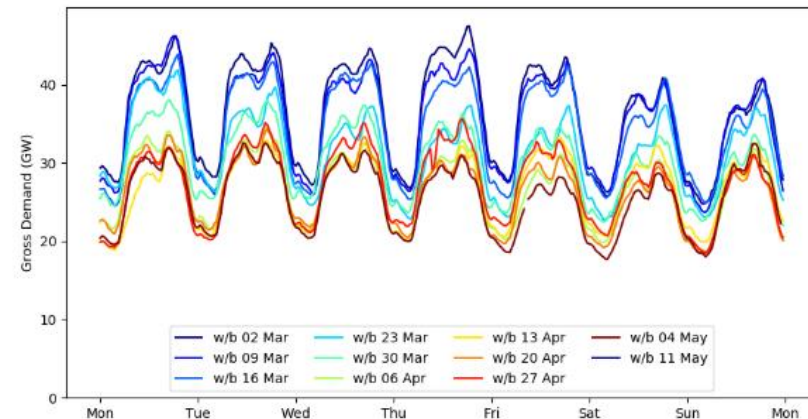
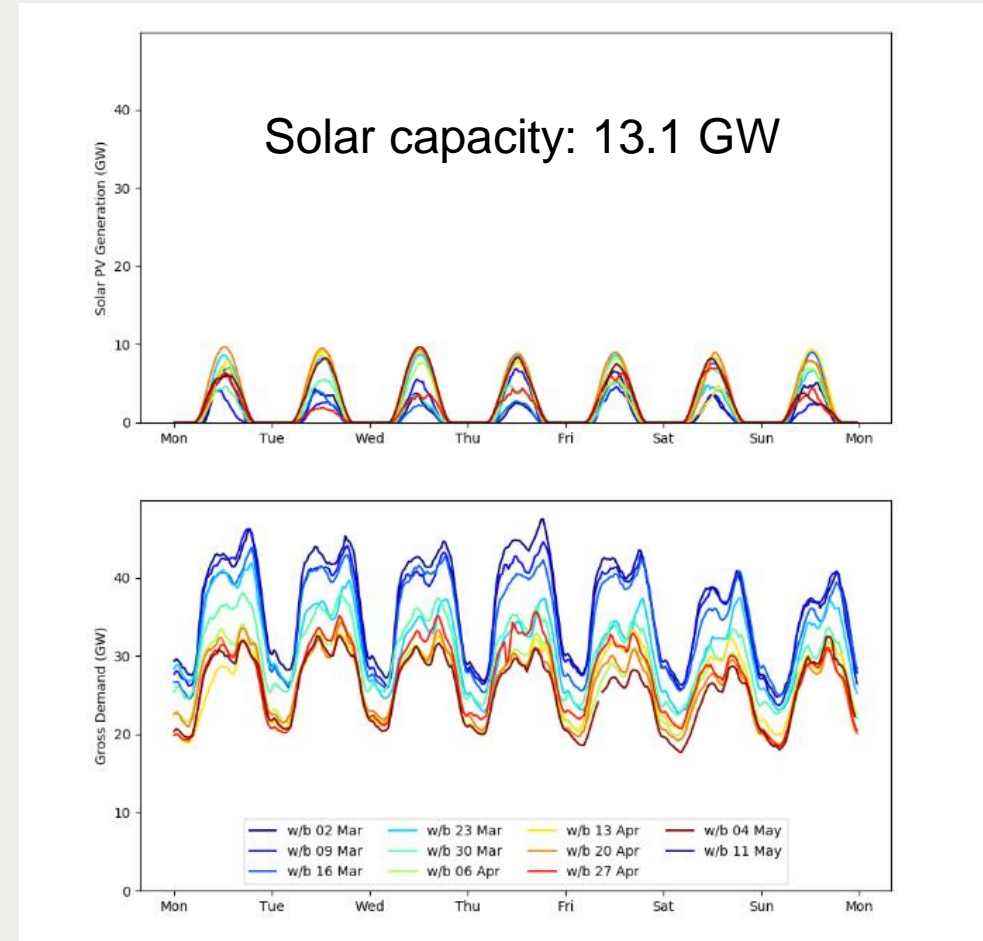
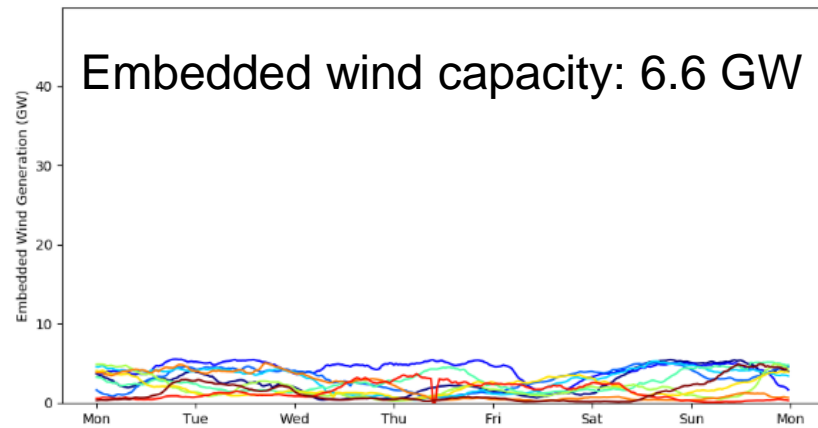
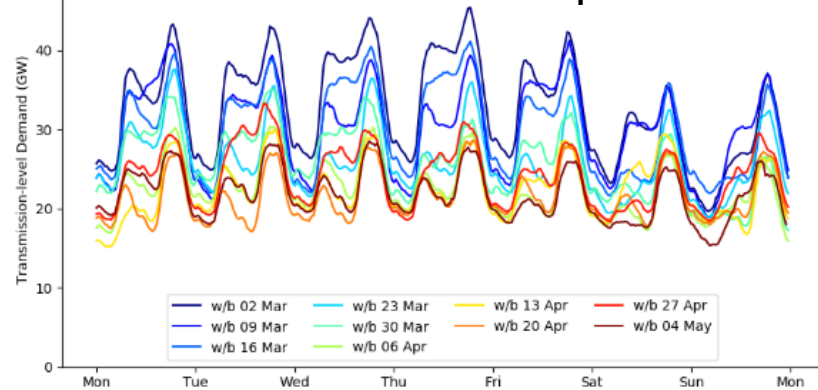
*C1 – Power System Development and Economics*

**Question 3.1.4: What are some of the lessons learnt over the pandemic period and which can be seen as ground-breaking factors to consider in the future?**

**Dr Graeme Hawker, UK**

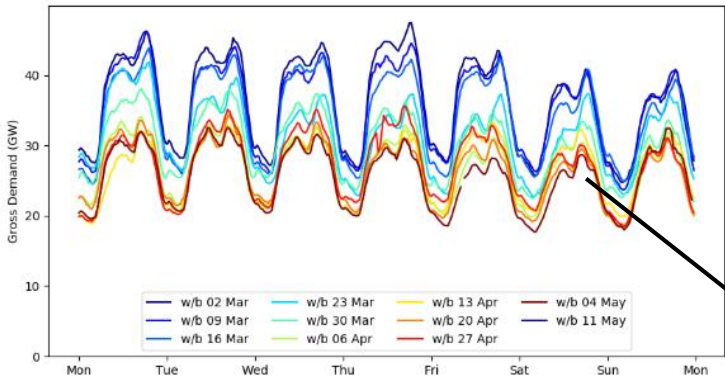
# Residual demand during first CV-19 lockdown

Transmission-level demand peak: 46.1 GW

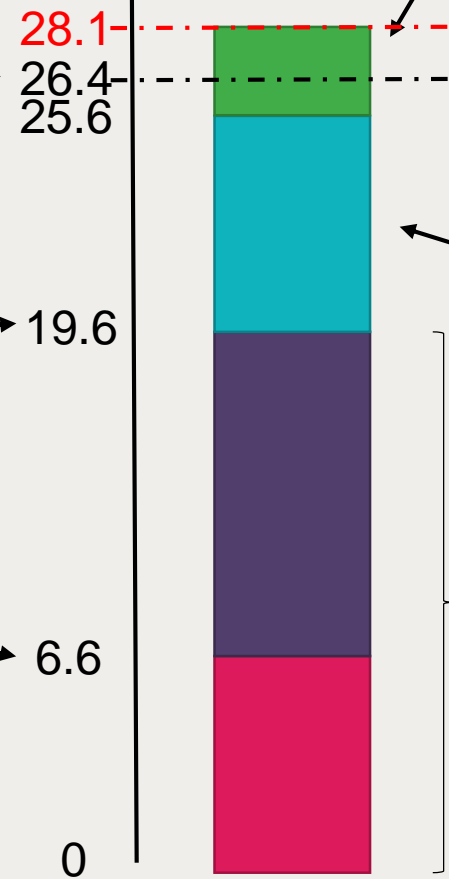
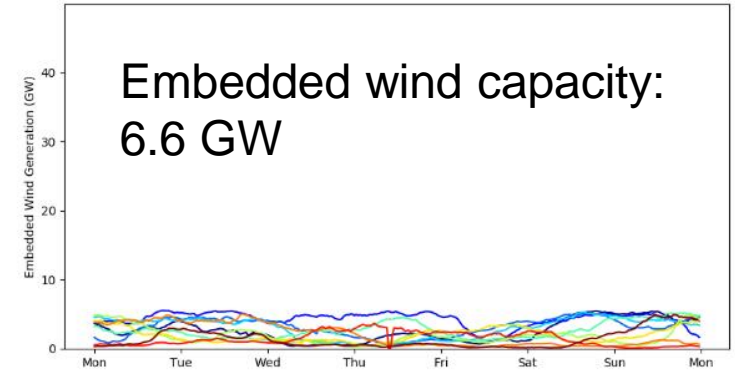
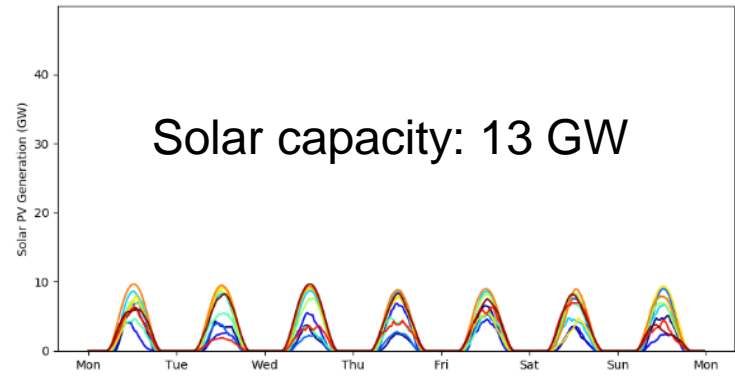


Group Discussion Meeting

Mid-day minimum distribution-level demand: 26.4 GW



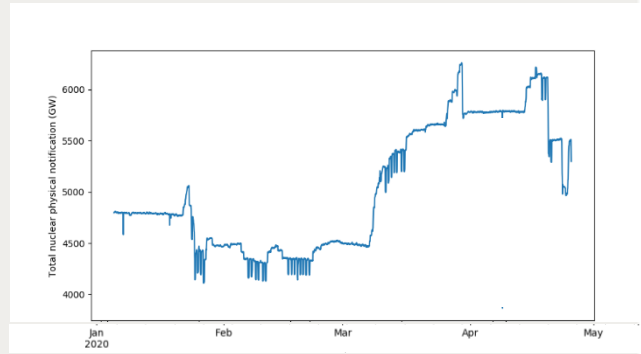
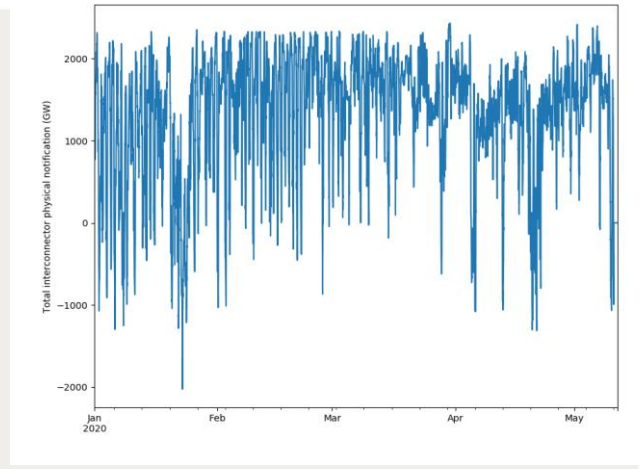
Mid-day minimum demand during lockdown: 26.4 GW



Interconnector trading; up to 2.5 GW import

Nuclear; currently ~6 GW

Potential total non-dispatchable renewable output on a windy, sunny day at mid-day



(and this assumes all 15.2GW of transmission-connected wind is also running close to capacity and is being paid not to generate at a cost of around £1m/hour)

# A view of future system operation?

- The operational margin during low demand periods minimised by non-dispatchable DG
- Driver to increase flexibility options
  - Need for increased visibility and control of DG
  - Avoidance of suboptimal economic dispatch (constraint of zero-marginal cost generation)
- Preparation for future events which may further suppress demand
  - Elevated energy prices
  - Increased energy efficiency
  - Other 'black sky' events
- Assumptions around consumer behaviour during stress events

Group Discussion Meeting

COMMODITIES NEWS MAY 6, 2020 / 10:03 AM / UPDATED 2 YEARS AGO

## EDF asked to lower Sizewell nuclear plant output to help balance UK grid

By Susanna Twidale 3 MIN READ [f](#) [t](#)

LONDON (Reuters) - EDF Energy has been asked to temporarily reduce output at its Sizewell B nuclear plant in the east of England to help balance the grid and prevent blackouts, EDF and grid operator National Grid said on Wednesday.

