



Freedom of Information (FOI) Request Received: 09 August 2023

**Published:** www.theccc.org.uk/about/transparency

Date: 05 September 2023

Sent by email from enquiries@theccc.org.uk Ref:

## Your request:

The excerpt below is from "The Sixth Carbon Budget - Electricity Generation" published by the CCC in December 2020. (page 20)

The information I would like to request is the details of the modelling. Please provide the model itself, the identity of the person/organisation who did the modelling, and the date the modelling was done. If the CCC has more recent modelling of integration costs, please also provide this.

## Excerpt:

As the deployment of renewables increases, integration costs will increase. Modelling undertaken for this report shows that these integration costs could be £25-30/MWh for a system with 75% to 90% of variable renewables.

## Our response:

Thank you for your request. We have treated your request as business as usual correspondence and provided links to published material below.

The details of the modelling for the electricity generation sector are set out in Chapter 1, Section 3 of this report. The model used is the BEIS Dynamic Dispatch Model that considers electricity demand and supply in Great Britain on a halfhourly basis. The CCC provided external inputs that covered demand, flexibility assumptions, capacity ranges, costs, and carbon values.

The modelling was conducted by CCC analysts. Under regulation 5(3), personal information from junior CCC staff and external contacts cannot be shared.

Please find key publications and chapters below:

- The Sixth Carbon Budget: Electricity generation, published December 2020. Available to download at: https://www.theccc.org.uk/wpcontent/uploads/2020/12/Sector-summary-Electricity-generation.pdf
  - See Chapter 1, Section 3 on approach to analysis for the Sixth Carbon Budget. Page 22-34.
- The Sixth Carbon Budget: Methodology Report, published December 2020. Available to download at: <a href="https://www.theccc.org.uk/wp-">https://www.theccc.org.uk/wp-</a>

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## <u>content/uploads/2020/12/The-Sixth-Carbon-Budget-Methodology-</u> Report.pdf

 See Chapter 5, Section 3 on approaches to analysis for the Sixth Carbon Budget. Page 157-169.

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Information disclosed in response to this FOIA request is releasable to the public. In keeping with the spirit and effect of the FOIA and the government's Transparency Agenda, this letter and the information disclosed to you may be placed on the CCC website, together with any related information that will provide a key to its wider context. No information identifying you will be placed on the CCC website.

If you are dissatisfied with the handling of your request, you have the right to ask for an internal review. If you are not content with the outcome of the review, you may apply directly to the Information Commissioner for a decision. In keeping with our transparency policy, the information released to you will be published on <a href="https://www.theccc.org.uk">www.theccc.org.uk</a>. Please note that this publication will not include your personal data.

Kind regards, Climate Change Committee