

*Electricity Network Innovation Competition Full Submission*  
**Supplementary Answer Form**

**Project: REVISE**

Tick if this answer has been provided verbally: ☐

Project code	WPD/EN/NIC/05	Question Number	35
Question date	13 September 2018	Answer date	17 September 2018
Submission section question relates to			
Topic	a) Low carbon/environment and net financial benefits;		
Question	Please explain the underlying benefit calculations within the submission - where appropriate by providing the calculations and describing any assumptions that informed these calculations.		
Notes on question	None		
Answer	<p>The methodology for the calculation of the benefits for each of the REVISE Methods are detailed within Appendix K – Business Case Supplement. The calculation of these benefits has been produced using a detailed spreadsheet which captures:</p> <ul style="list-style-type: none"> <li>• Background data for each Method including: <ul style="list-style-type: none"> <li>○ Breakdown of Capex and Opex costs for the Base Case;</li> <li>○ Breakdown of Capex and Opex costs for the Method;</li> <li>○ Units per Method;</li> <li>○ Outage Information;</li> <li>○ CO<sub>2</sub> background data;</li> <li>○ Embodied carbon data;</li> <li>○ Carbon Intensity;</li> <li>○ WPD asset data;</li> <li>○ Circuit ratings; and</li> <li>○ Capacity release data.</li> </ul> </li> </ul>		

- Data for developing forecasts including:
  - GB DNO asset data;
  - LTDS data;
  - DG capacity data;
  - NGET FES data; and
  - WPD Shaping Subtransmission data.
- Data for developing NPV and carbon/capacity benefits including:
  - Minimum roll-out numbers per Method;
  - Medium roll-out numbers per Method;
  - Maximum roll-out numbers per Method;
  - NPV discount rates;
  - Changes in Method Costs (falling capex costs);
  - Cash flows per Method; and
  - Summary tables.

The Benefits Spreadsheet has been split into 19 sheets as detailed in **Error! Reference source not found..**

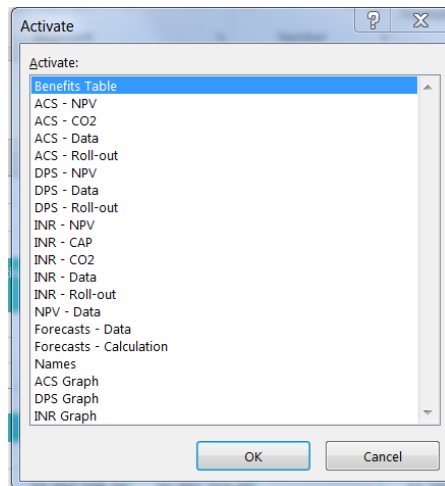


Figure 1 – Sheets from Benefits Table

The information that was used to help develop the business case and the assumptions we have made are detailed within Appendix K, Table K-1.

For further clarity the internal bid team's Benefits Spreadsheet, used to provide the data included within the FSP and Appendices, has been included as an attachment. We would request that this spreadsheet is treated as confidential.

#### Attachments



2018-09-17 -  
Benefits Calculations