Appendix C

To demonstrate the impact of future changes on the transmission network, a set of winter peak power flow diagrams are presented in Appendix C. These show snapshots of present and future power flows along major circuit routes for the Two Degrees Scenario.

Appendix C

<table>
<thead>
<tr>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1 – GB Power Flow Diagram Two Degrees 2019/20...2</td>
</tr>
<tr>
<td>C2 – GB Power Flow Diagram Two Degrees 2021/22...3</td>
</tr>
<tr>
<td>C3 – GB Power Flow Diagram Two Degrees 2023/24...4</td>
</tr>
<tr>
<td>C4 – GB Power Flow Diagram Two Degrees 2025/26...5</td>
</tr>
<tr>
<td>C5 – GB Power Flow Diagram Two Degrees 2028/29...6</td>
</tr>
</tbody>
</table>
Figure C1: GB Power Flow Diagram Two Degrees 2019/20

Note 1: The power flows shown in this diagram represent the Economy planned transfer conditions as specified in appendix B of the NETS SG/SS.
Note 2: The network is intact and no boundary constraints applied.
Note 3: Geographic drawings of the NETS are to be taken as an approximate location of assets.
Note 4: The future reinforcements shown in pink are based on NDA 2018/19.
Note 5: Connection year for Interconnectors and offshore wind farms are based on Interconnector Register and TEC register contracted dates.
Figure C3: GB Power Flow Diagram Two Degrees 2023/24

Note 1: The power flows shown in this diagram represent the Electricity Networks tallest transfer conditions as specified in Appendix E of the NETS SQUSS.
Note 2: The network is intact and no boundary constraints apply.
Note 3: Geographic drawings of the NETS are to be taken as an approximate location of assets.
Note 4: The future reinforcements shown in pink are based on NDA 2018/19.
Note 5: Connection year for Interconnectors and offshore wind farms are based on Interconnector Register and TEC register contracted dates.
Note 1: The power flows shown in this diagram represent the Economy planned transfer conditions as specified in appendix E of the NETS SQSS.
Note 2: The network is intact and no boundary constraints applied.
Note 3: Geographic drawings of the NETS are to be taken as an approximate location of assets.
Note 4: The future reinforcement shown in pink are based on NDA 2018/19.
Note 5: Connection year for Interconnectors and offshore wind farms are based on Interconnector Register and TEC register contracted dates.
Figure C5: GB Power Flow Diagram Two Degrees 2028/29

Note 1: The power flows shown in this diagram represent the Economy planned transfer conditions as specified in appendix E of the NETS SQSS.
Note 2: The network is intact and no boundary constraints applied.
Note 3: Geographic drawings of the NETS are to be taken as an approximate location of assets.
Note 4: The future reinforcements shown in pink are based on NOA 2018/19.
Note 5: Connection year for Interconnectors and offshore wind farms are based on Interconnector Register and TEC register contracted dates.