

Appendix C

Power flow diagrams

Contents

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 Leading the Way Scenario as well as future reinforcements based on 2019 NOA results. New transmission circuits and substations that are still to be built are shown in the future year's diagrams. They represent one scenario and could change. The diagrams are not completely geographically precise and should not be used for detailed planning purposes.

Appendix C

C1 – GB Power Flow Diagram Leading the Way 2020/21.....	2
C2 – GB Power Flow Diagram Leading the Way 2022/23.....	3
C3 – GB Power Flow Diagram Leading the Way 2024/25.....	4
C4 – GB Power Flow Diagram Leading the Way 2026/27.....	5
C5 – GB Power Flow Diagram Leading the Way 2029/30.....	6

Figure C1: GB Power Flow Diagram Leading the Way 2020/21

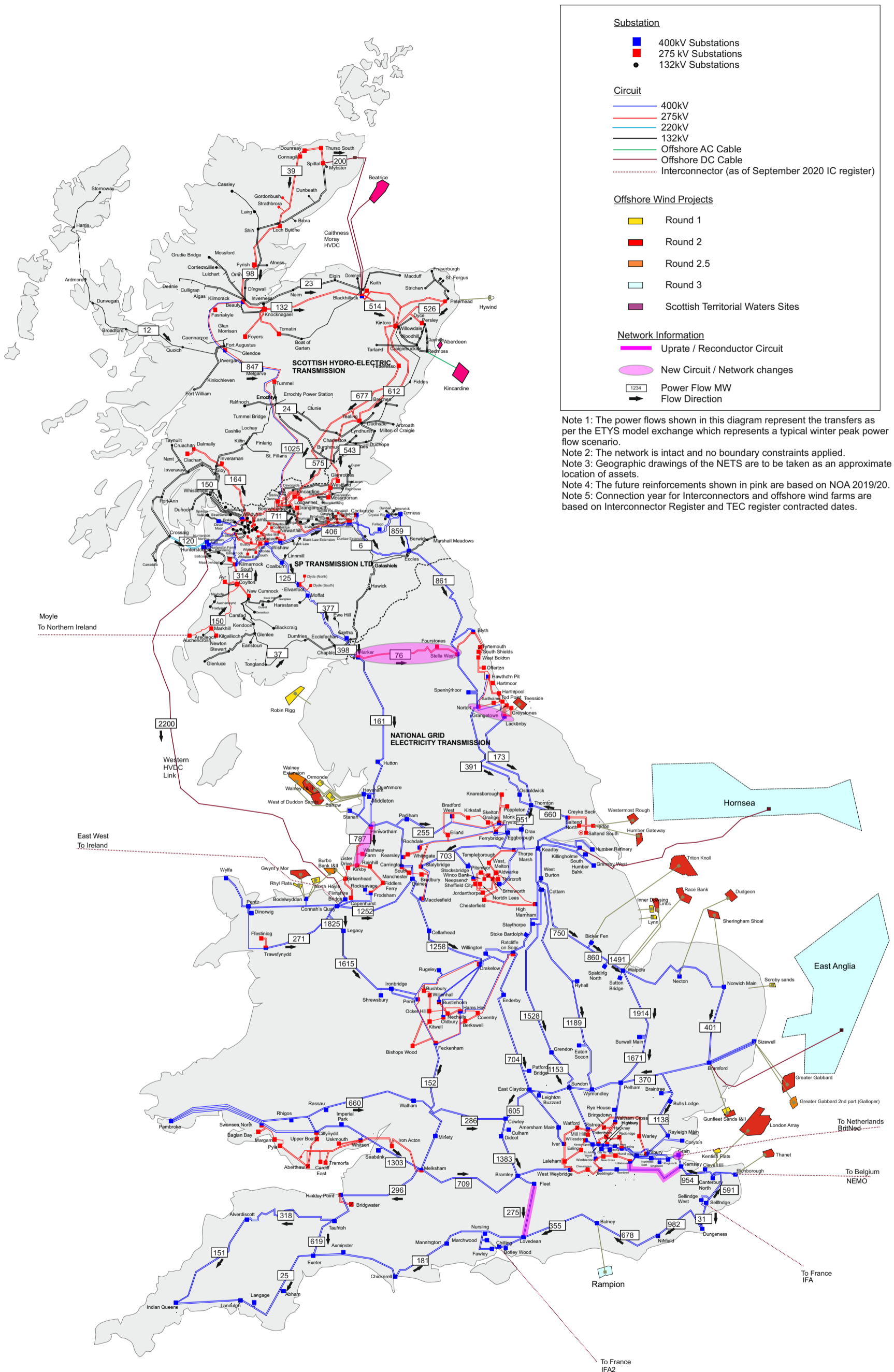


Figure C2: GB Power Flow Diagram Leading the Way 2022/23

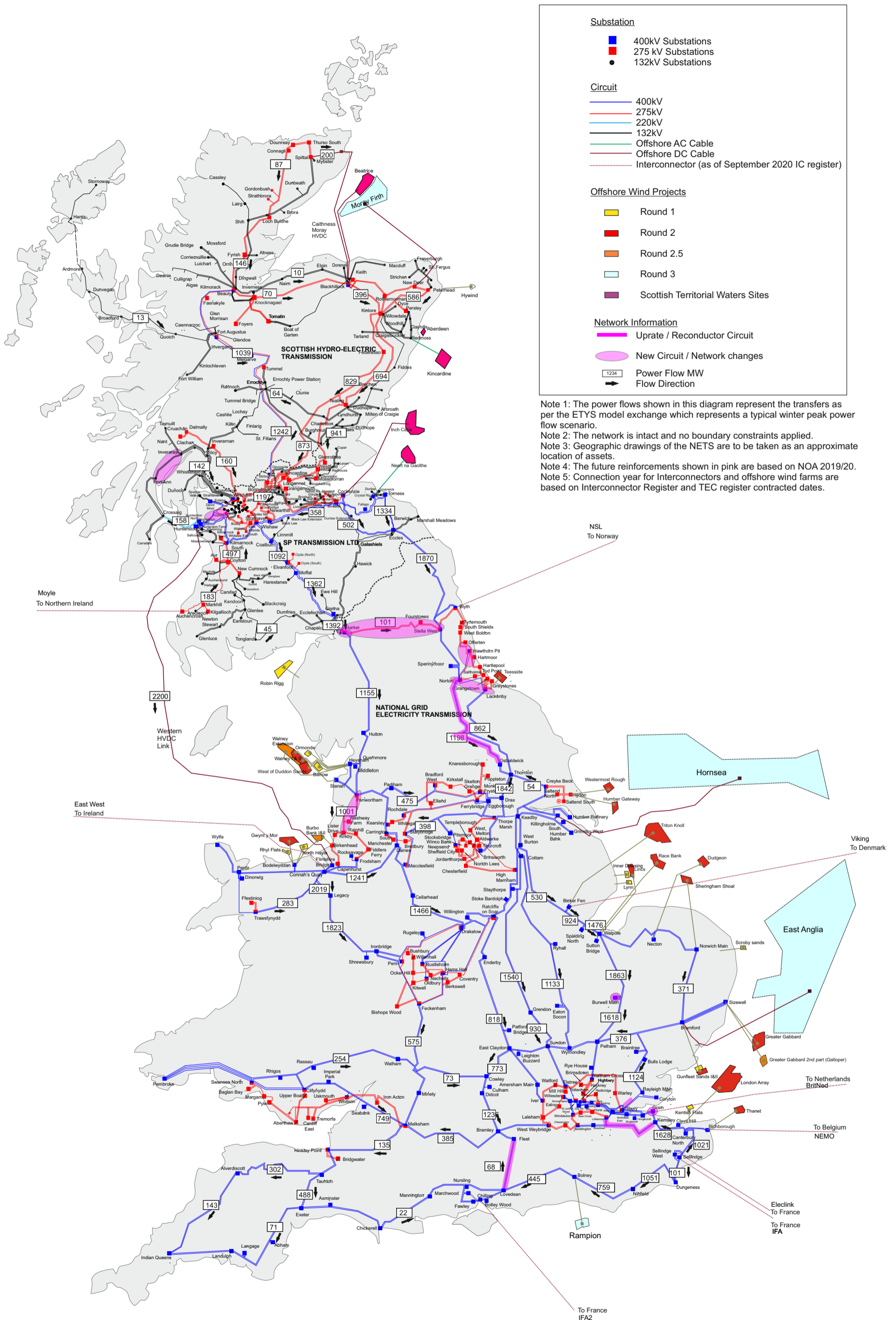


Figure C3: GB Power Flow Diagram Leading the Way 2024/25

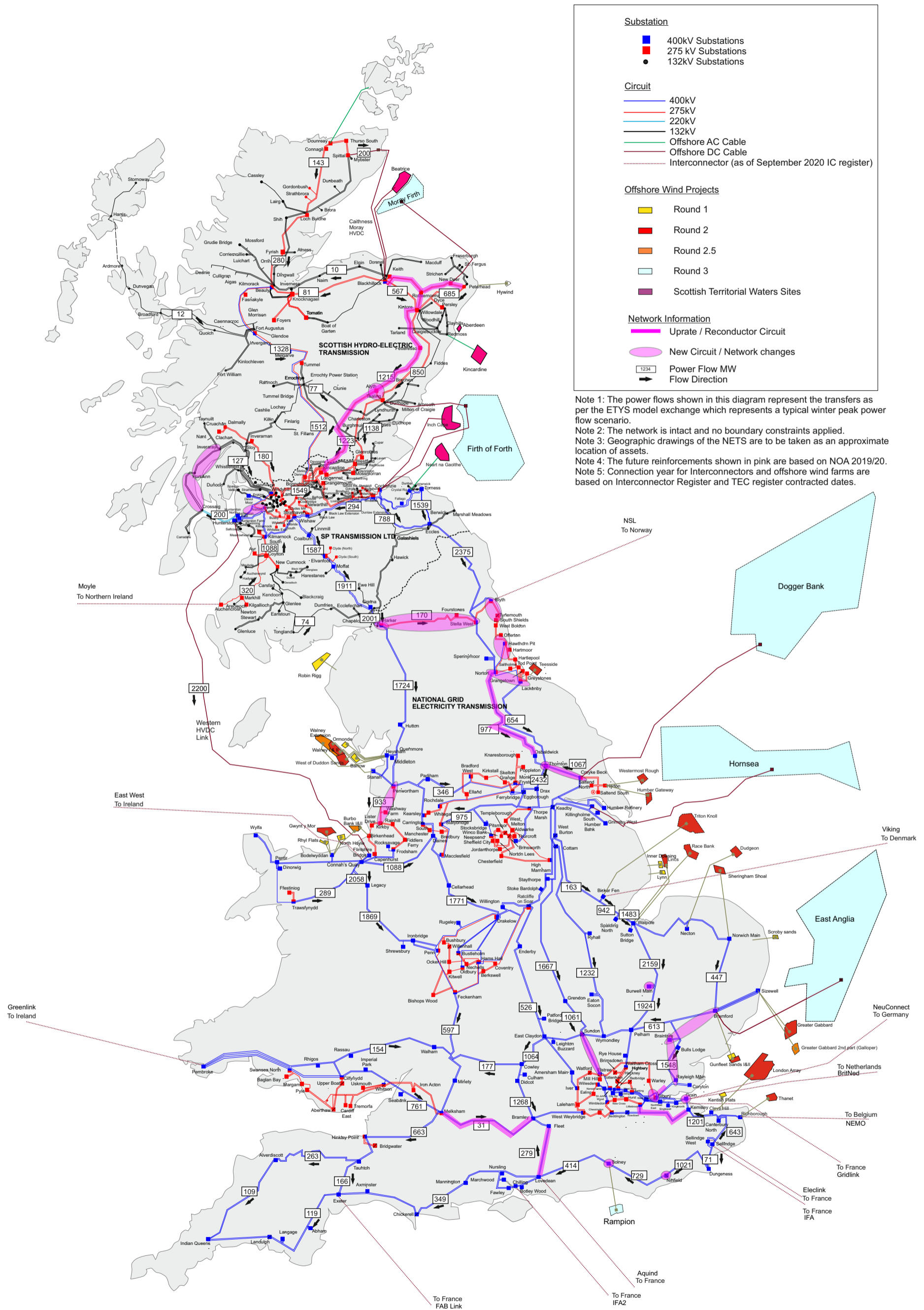


Figure C4: GB Power Flow Diagram Leading the Way 2026/27

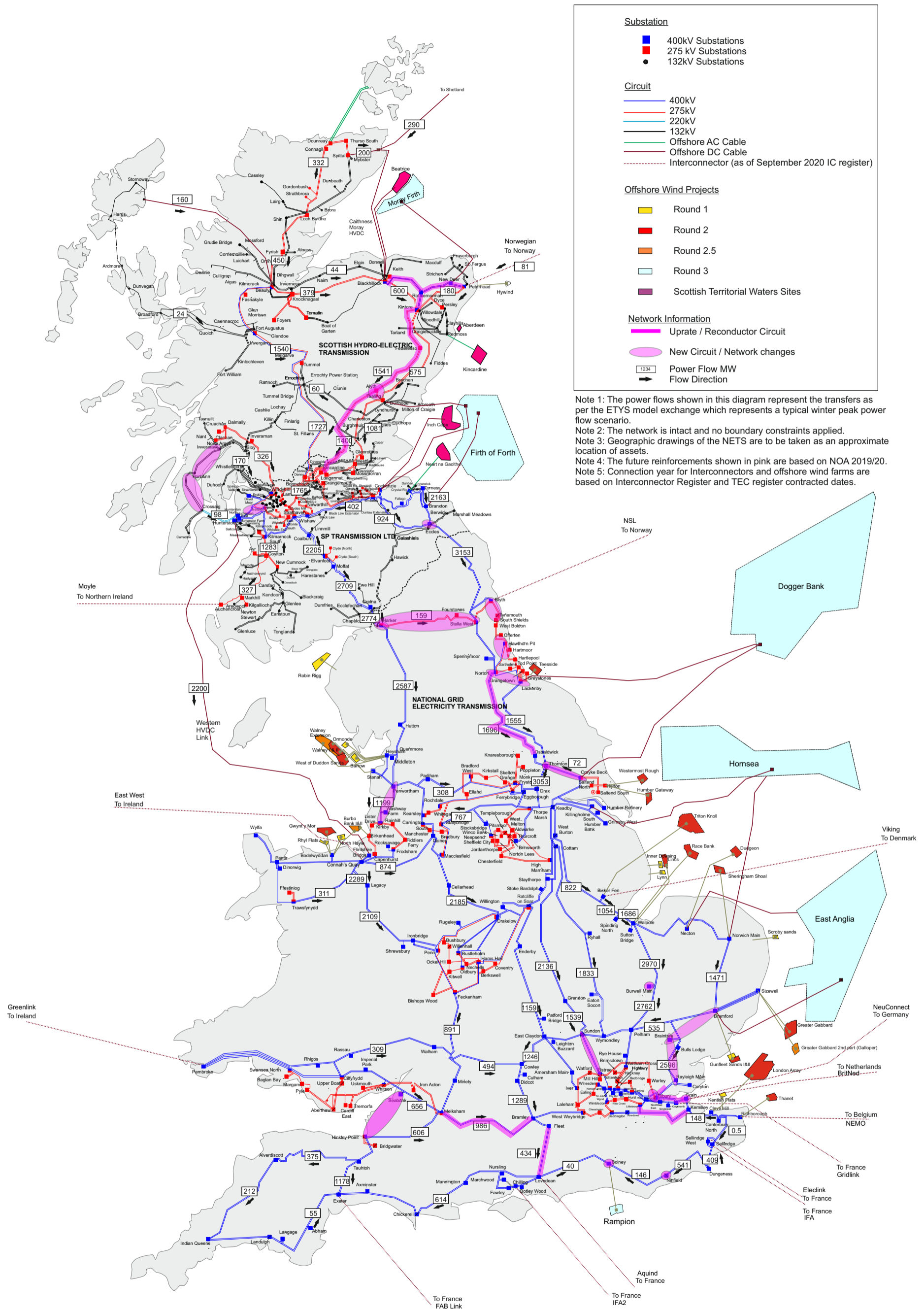
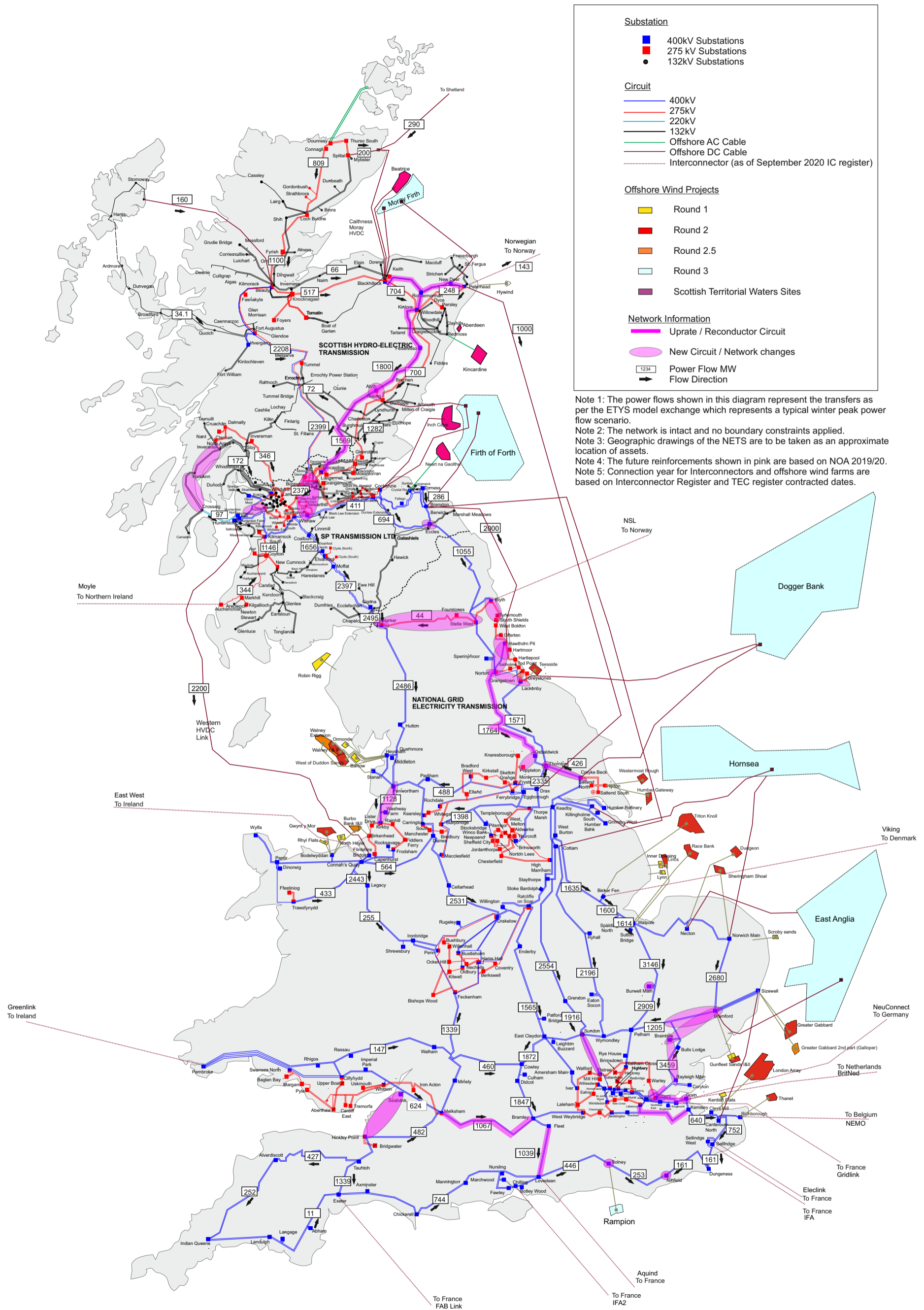


Figure C5: GB Power Flow Diagram Leading the Way 2029/30



Note 1: The power flows shown in this diagram represent the transfers as per the ETYS model exchange which represents a typical winter peak power flow scenario.
 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 2019/20.
 Note 5: Connection year for Interconnectors and offshore wind farms are based on Interconnector Register and TEC register contracted dates.