Order of action - Winter 2024/25

# Context

The Order of Action is as agreed by NESO Executive Leadership Team and communicated externally at Markets Forum. The Order of Action for Winter 2024/25 is summarised in the tables below:

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| **Everyday Actions​​** | **Order ​​** | **Comments​​** |
| Reconfigure Transmission Network to reduce network congestion: Change substation running arrangements, Tap Quad Boosters, and make use of enhanced ratings​​ | Normal operating practice – no cost​​ | Changing daily operating conditions can result in different network configurations to reduce congestion​​. |
| Review and refine reserve requirement within day dependent on system conditions​ | Normal operating practice – no cost​ | Changing system conditions can relieve requirements for reserve or increase requirements. This can change at any time as the conditions change.​ |
| All deliverable Offer action on all available Balancing Mechanism (BM) participants​​ | #1 based on Cost​​ | Scheduled from Day Ahead, action taken in real time – some offers may not be available due to network congestion​​. |
| Issue warming instructions to cold BM participants​​ | #1 based on Cost​​ | Scheduled from Day Ahead, action taken in real time​​. Warming instruction required for any Balancing Mechanism Unit (BMU) with Notice to Deviate from Zero (NDZ) >89mins. |
| Buy energy from continental Europe​​ | #1 based on Cost​​ | Scheduled from Day Ahead, action taken from Day Ahead to 4hrs ahead of time by ESO Traders​​. |
| Reconfigure Close Cycle Gas Turbines (CCGTs) to increase available energy (e.g. sync additional GTs)​​ | #1 based on Cost​​ | Scheduled from Day Ahead, managed within the control timescales within day.​​ |
| System Operator (SO)-SO trade in cost order​​ | #1 based on Cost​​ | SO to SO trade with other SO in Europe/ Ireland​​. |
| Instruct Demand Flexibility product | #1 based on Cost | For predominantly peak periods (16:00 to 19:00) activated within day. |

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| **Emergency Actions​**  **(If enhanced actions are insufficient)** | **Order ​** | **Comments​** |
| Emergency Instruction (EI) to other SO | #5 | Only applicable if this does not cause demand control in the interconnected countries. |
| Use of MaxGen | #5 | This should be used at the same time as EI to other SO. This service will be initiated by the issuing of an Emergency Instruction. |
| OC6.5.3 Fast Demand Control instructions to Distribution Network Operators (DNOs) | #6 | This could be via voltage control or demand control of fast disconnection blocks up to 20%, protecting critical sites. |
| OC6.5.4. Demand Control Rotation Protocol | #7 | In-day rota’d demand control disconnections up to 40%, protecting critical sites. NESO has emergency powers to do this, when approved by NESO’s Gold Crisis Management Team. |

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| **Enhanced Actions**  **(If everyday actions are insufficient)​​** | **Order ​​** | **Comments​​** |
| Recall Transmission Owner (TO) assets from outage to increase network availability and available capacity​​ | #2​ | Anytime through to control room timescales, depending on ERTS (Emergency Return to Service) time​​. |
| Net Transfer Capacity (NTC) restrictions | #3 | Required to ensure interconnectors flows remain within operation security limits. Used as a last resort after all commercial actions and system optimisations have been taken. Can be use for margin extremes when an interconnector flow can result in an Electricity Margin Notice (EMN) or High Risk of Demand Reduction (HRDR) being issued (this is detailed further in the internal and external NTC policies). |
| Use of Emergency Assistance (EA) from other SO​ | #4​ | Enacted close to real-time. Only applicable if capacity is available on interconnectors​. EA can be withdrawn at any time​. |

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| **Emergency Powers​**  **(If emergency actions are insufficient)** | **Order ​** | **Comments​** |
| Recommend to Department of Energy Security and Net Zero (DESNZ) to implement the Electricity Supply Emergency Code (ESEC) | #8 | Ongoing conversations prior to this so all parties would be aware of risk. |
| ESEC instructed by DESNZ | #9 | NESO implement rota disconnections within ESEC framework, likely with 48h notice. Demand Control greater than 40%. |

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| **Notices issued at any time as required** | **Comment** |
| Issue Electricity Margin Notice (EMN) | Request to market to increase available energy or reduce demand. Likely to be issued at Day Ahead. Updated regularly​. |
| Issue a High Risk of Demand Reduction (HRDR) system warning​ | Warning network operators of high likelihood of demand control. Further request to market to increase available energy or reduce demand. Closer to real-time than EMN​. |
| Issue Demand Control Imminent (DCI) system warning​ | If possible, this system warning will be issued 30 minutes prior to demand control. Warning to network operators​. |
| A Capacity Market Notice (CMN) is automatically triggered to alert Capacity Market participants​ | Driven by calculation of Market data at 4 hours ahead of real time​. |
| Optional - Anticipated Requirement Notice (ARN) | ARN issued if Demand Flexibility Service (DFS) may be required within day. Issued between 8am and 10am. |