

APPENDIX F CAPABILITY FOR NEW GENERATION AND DEMAND AT 110KV STATIONS

F.1 110KV STATION ANALYSIS FOR GENERATION

Table F-1 indicates the amount of new generation that could be connected at each of the eighteen 110kV stations examined, without the need for additional Grid reinforcement. It should be noted that the results are not cumulative. For instance, where the results for 2006 show that Ennis and Limerick could accommodate a 120MW generator, it does not follow that such a generator could be connected at both stations. Generation connection assessments are based on the assumption that all existing and committed generators are fully available. These studies are based on the examination of thermal and voltage limits. The actual capability of the system to accept generation may be limited by other factors such as transient stability, short-circuit levels, flicker and harmonics.

Table F-1 Capability (MW) for New Generation at 110kV Stations

Station	2003	2006	2009
Drybridge (Drogheda)	70	140	80
Dundalk	70	80	0
Shankill (Cavan Town)	70	60	60
Letterkenny	60	120	130
Sligo	60	150	200
Castlebar	40	120	180
Galway	40	110	90
Athlone	110	100	0
Mullingar	80	80	80
Portlaoise	0	60	100
Limerick	120	110	0
Ennis	70	120	0
Trabeg (Cork City)	50	130	20
Cahir	250	230	50
Kilkenny	10	120	120
Tralee	160	70	0
Waterford	170	200	170
Wexford	10	80	0

F.2 110KV STATION ANALYSIS FOR DEMAND

The Grid is being planned to meet anticipated demand growth at all stations on the Grid. Table F-2 indicates the amount of additional demand, in excess of this projected demand, that could be accommodated at each of the eighteen 110kV stations, without the need for additional Grid reinforcement.

Table F-2 Capability (MW) for Additional Demand at 110kV Stations

Station	2003	2006	2009
Drybridge (Drogheda)	0	0	0
Dundalk	0	0	0
Shankill (Cavan Town)	0	0	0
Letterkenny	0	0	0
Sligo	0	0	0
Castlebar	0	0	0
Galway	0	0	0
Athlone	0	0	0
Mullingar	0	30	0
Portlaoise	0	20	0
Limerick	50	70	0
Ennis	0	40	0
Trabeg (Cork City)	50	70	0
Cahir	20	0	0
Kilkenny	10	0	0
Tralee	0	50	0
Waterford	0	0	0
Wexford	0	0	0