

APPENDIX C DEMAND FORECASTS AT TRANSMISSION INTERFACE STATIONS

Transmission interface stations are the points of connection between the transmission system and the distribution system or directly connected customers. Table C-1 lists the forecast demand at each interface station at the time of system peak for summer 2003, winter 2003/4, summer 2006, winter 2006/7, summer 2009, winter 2009/10. In addition – and new to this statement – the demands at the time of the summer night valley (SNV) for summer 2003, summer 2006 and summer 2009 are included. The SMR column represents the demands at summer peak, SNV at summer night valley, and WIN at winter peak. Because of the inclusion of additional columns of demand values, the Mvar demands have been omitted and the power factors for the mid-year, summer 2006 and winter 2006/7, are included.

The demand values do not include transmission losses. Stations that interface with the distribution system do include distribution losses.

All interface stations are 110kV stations except for the four 220kV interface stations that supply the Dublin City radial networks operated by the DSO. These 220kV interface stations, Carrickmines, Finglas, Inchicore and Poolbeg, are included at the bottom of the table.

Some 110kV stations do not interface with distribution stations or directly connected demand stations. As there are no demand values for such stations, they are not included in this table.

Table C-1 Forecast Demand at Transmission Interface Stations

Bus Code	Power Factor		Forecast Demand (MW)								
	Winter	Summer	2003			2006			2009		
			SMR	SNV	WIN	SMR	SNV	WIN	SMR	SNV	WIN
AA	0.93	0.92	63.6	22.3	85.0	52.3	18.0	70.5	58.2	20.5	78.3
AHA	0.95	0.95	5.0	1.8	5.8	5.5	1.9	6.4	6.1	2.2	7.2
ANR	0.93	0.93	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
ARI	0.98	0.98	4.4	1.6	6.0	4.8	1.7	6.7	5.4	1.9	7.4
ARK	0.90	0.93	35.9	12.6	41.6	19.9	6.9	19.5	22.1	7.8	21.6
ATH	0.90	0.92	45.8	16.1	57.7	50.0	17.3	64.0	55.7	19.6	71.0
ATY	0.93	0.93	0.0	0.0	0.0	6.3	2.2	8.7	7.0	2.5	9.7
BAL	0.92	0.92	0.0	0.0	0.0	11.9	4.1	16.4	13.2	4.6	18.2
BAN	0.94	0.94	23.0	8.1	31.3	25.1	8.7	34.7	28.0	9.9	38.6
BAR	0.97	0.97	24.5	8.6	33.3	26.7	9.2	36.9	29.7	10.5	41.0
BCM	0.93	0.93	0.0	0.0	0.0	17.5	11.0	17.5	17.5	11.0	17.5
BDN	0.88	0.89	9.7	7.2	10.4	10.1	7.3	10.9	10.5	7.5	11.5
BEG	0.91	0.91	0.0	0.0	0.0	15.0	5.2	20.7	16.7	5.9	23.0
BIN	0.92	0.92	20.3	7.1	25.2	22.2	7.6	28.0	24.7	8.7	31.0
BK	0.97	0.97	2.9	1.0	3.6	3.2	1.1	4.0	3.5	1.2	4.4
BLI	0.91	0.91	8.0	2.8	10.9	8.8	3.0	12.1	9.8	3.4	13.5
BLK	0.92	0.93	17.9	6.3	19.0	16.3	5.6	21.1	18.1	6.4	23.4

Table C-1 Forecast Demand at Transmission Interface Stations (continued)

Bus Code	Power Factor		Forecast Demand (MW)								
	Winter	Summer	2003			2006			2009		
			SMR	SNV	WIN	SMR	SNV	WIN	SMR	SNV	WIN
BOG	0.94	0.94	0.0	0.0	0.0	13.5	4.7	18.7	15.1	5.3	20.7
BRI	0.93	0.93	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
BRY	0.94	0.94	34.0	11.9	46.2	37.1	12.8	51.3	41.3	14.5	57.0
BUT	0.91	0.94	44.6	17.1	55.9	28.2	9.7	37.6	31.3	11.0	41.8
CAH	0.90	0.91	29.1	10.2	19.0	18.5	6.4	21.1	20.6	7.2	23.4
CAM	0.89	0.89	0.0	0.0	0.0	13.6	4.7	18.8	15.1	5.3	20.8
CBR	0.94	0.95	43.3	15.2	52.8	45.6	15.7	56.3	50.8	17.9	62.5
CF	0.91	0.92	11.7	4.1	15.0	12.8	4.4	16.6	14.2	5.0	18.5
CFM	0.95	0.95	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
CHA	0.89	0.90	15.6	5.5	15.9	13.5	4.7	17.7	15.0	5.3	19.6
CLN	0.92	0.92	17.5	6.1	18.1	19.1	6.6	20.0	21.3	7.5	22.2
CLW	0.84	0.88	41.6	14.6	52.2	39.1	13.5	49.2	43.5	15.3	54.6
COL	0.95	0.95	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
COS	0.83	0.87	27.4	9.6	33.5	22.8	7.9	27.3	25.4	8.9	30.3
COW	0.94	0.94	19.8	6.9	25.4	21.6	7.5	28.2	24.0	8.5	31.3
CRA	0.89	0.91	22.4	7.9	28.6	15.3	5.3	19.0	17.0	6.0	21.1
CRO	0.94	0.94	7.1	2.5	9.6	7.7	2.7	10.7	8.6	3.0	11.9
CVW	0.94	0.94	10.4	3.6	13.7	11.4	3.9	15.2	12.6	4.4	16.9
DAL	0.93	0.94	9.3	3.3	12.0	10.2	3.5	13.4	11.3	4.0	14.8
DDK	0.89	0.92	48.8	17.1	60.5	53.3	18.4	67.1	59.3	20.9	74.5
DFR	0.91	0.91	1.8	0.6	6.5	5.2	1.8	7.2	5.8	2.0	8.0
DGN	0.88	0.90	23.0	8.1	29.7	25.2	8.7	32.9	28.0	9.9	36.5
DKL	0.91	0.91	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
DLT	0.93	0.93	14.7	5.2	20.0	16.0	5.5	22.2	17.9	6.3	24.6
DMY	0.90	0.91	26.1	9.2	33.3	28.5	9.8	36.9	31.7	11.2	41.0
DOO	0.97	0.97	23.4	8.2	30.7	25.5	8.8	34.1	28.4	10.0	37.9
DRU	0.94	0.95	27.3	9.6	39.0	29.9	10.3	43.3	33.2	11.7	48.0
DRY	0.90	0.93	54.2	19.0	66.9	59.2	20.4	74.2	65.9	23.2	82.4
ENN	0.91	0.93	42.7	15.0	49.8	46.6	16.1	55.3	51.9	18.3	61.4
FAS	0.96	0.97	43.5	15.3	49.1	47.5	16.4	54.5	52.8	18.6	60.5
GAL	0.95	0.96	96.6	33.9	121.9	91.9	31.7	116.5	102.3	36.0	129.4
GCA	0.95	0.94	0.0	0.0	0.0	12.4	4.3	17.1	13.7	4.8	18.9
GCO	0.93	0.93	0.0	0.0	0.0	9.7	3.3	13.4	10.8	3.8	14.8
GI	0.92	0.96	13.5	4.7	12.0	14.7	5.1	13.3	16.4	5.8	14.8
GIL	0.95	0.95	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
GLA	0.92	0.94	45.4	15.9	49.0	37.7	13.0	38.0	41.9	14.8	42.2
GLE	0.92	0.92	0.0	0.0	0.0	11.6	4.0	16.1	12.9	4.6	17.8
GRA	0.93	0.93	37.9	13.3	40.0	41.4	14.3	44.4	46.0	16.2	49.3
GRI	0.96	0.96	46.9	16.4	55.8	51.2	17.7	61.9	57.0	20.1	68.7
GWE	0.93	0.93	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0

Table C-1 Forecast Demand at Transmission Interface Stations (continued)

Bus Code	Power Factor		Forecast Demand (MW)								
	Winter	Summer	2003			2006			2009		
			SMR	SNV	WIN	SMR	SNV	WIN	SMR	SNV	WIN
HTX	0.91	0.92	0.0	0.0	0.0	8.6	3.0	11.9	9.6	3.4	13.2
IKE	0.92	0.93	20.8	7.3	24.9	22.7	7.8	27.6	25.3	8.9	30.6
KBY	0.92	0.93	66.5	23.3	81.5	72.6	25.0	90.4	80.8	28.4	100.4
KER	0.95	0.94	28.4	10.0	37.6	28.0	9.7	37.6	31.2	11.0	41.8
KIL	0.91	0.91	6.0	6.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
KIN	0.88	0.88	7.7	7.7	20.6	18.1	11.3	22.0	19.2	11.8	23.6
KKY	0.95	0.95	47.3	16.6	59.9	51.6	17.8	66.5	57.4	20.2	73.8
KMY	0.91	0.91	0.0	0.0	0.0	9.2	3.2	12.7	10.2	3.6	14.1
KTN	0.91	0.91	0.0	0.0	0.0	19.7	8.3	23.4	20.8	8.8	24.8
KTL	0.89	0.91	14.5	5.1	17.2	15.8	5.5	19.0	17.6	6.2	21.1
KTY	0.95	0.95	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
KUR	0.93	0.93	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0
LA	0.93	0.93	9.6	3.4	11.0	10.4	3.6	12.2	11.6	4.1	13.5
LET	0.93	0.94	46.0	16.2	58.4	50.3	17.4	64.8	56.0	19.7	71.9
LIB	0.97	0.97	10.4	3.6	16.0	11.4	3.9	17.8	12.7	4.4	19.7
LIM	0.93	0.92	67.3	23.9	82.2	62.1	21.4	79.6	69.1	24.3	88.4
LIS	0.91	0.92	21.5	7.6	28.9	23.5	8.1	32.1	26.2	9.2	35.7
LSN	0.95	0.95	15.0	10.0	15.0	15.0	10.0	15.0	15.0	10.0	15.0
MAC	0.98	0.98	11.0	3.8	14.8	3.4	1.2	4.5	3.7	1.3	5.0
MAL	0.92	0.94	23.6	8.3	31.2	17.1	5.9	22.7	19.1	6.7	25.2
MCE	0.92	0.92	17.5	9.4	20.9	18.6	9.7	22.6	20.1	10.3	24.6
MID	0.91	0.92	24.4	8.5	29.4	26.6	9.2	32.6	29.6	10.4	36.2
MLN	0.93	0.93	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
MON	0.90	0.91	9.1	3.2	12.3	9.9	3.4	13.7	11.0	3.9	15.2
MOY	0.94	0.96	23.3	8.2	27.4	25.5	8.8	30.4	28.4	10.0	33.8
MR	0.91	0.95	19.7	6.9	27.7	21.5	7.4	30.8	23.9	8.4	34.2
MTH	0.90	0.91	26.0	9.1	32.5	28.4	9.8	36.1	31.6	11.1	40.0
MUL	0.93	0.94	28.8	10.1	21.7	21.1	7.3	24.1	23.5	8.3	26.7
MUN	0.95	0.95	20.0	15.0	20.0	20.0	15.0	20.0	20.0	15.0	20.0
NAN	0.95	0.95	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0
NAV	0.90	0.92	44.0	15.4	51.5	48.0	16.6	57.2	53.4	18.8	63.5
NEN	0.90	0.90	0.0	0.0	0.0	17.2	5.9	23.8	19.2	6.7	26.4
NEW	0.90	0.92	41.3	14.5	49.6	35.4	12.2	41.7	39.4	13.9	46.3
OLD	0.95	0.95	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7
OUG	0.98	0.96	17.5	6.1	22.0	19.1	6.6	24.5	21.3	7.5	27.2
PLA	0.93	0.93	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0
PLS	0.90	0.92	32.9	11.5	42.8	35.9	12.4	47.5	40.0	14.1	52.8
RAT	0.91	0.93	24.4	8.6	32.9	26.6	9.2	36.5	29.6	10.4	40.5
RIC	0.87	0.90	21.3	7.5	28.9	23.2	8.0	32.1	25.8	9.1	35.6
RNW	0.93	0.93	13.5	13.5	16.0	16.0	16.0	16.0	16.0	16.0	16.0

Table C-1 Forecast Demand at Transmission Interface Stations (continued)

Bus Code	Power Factor		Forecast Demand (MW)								
	Winter	Summer	2003			2006			2009		
			SMR	SNV	WIN	SMR	SNV	WIN	SMR	SNV	WIN
RSY	0.95	0.95	3.6	1.2	3.8	3.9	1.3	4.3	4.3	1.5	4.7
RYB	0.95	0.95	32.0	32.0	76.4	76.4	76.4	76.4	76.4	76.4	76.4
SHE	0.95	0.95	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
SKL	0.88	0.89	50.6	17.8	66.7	55.3	19.1	74.0	61.5	21.7	82.2
SLI	0.91	0.93	38.2	13.4	46.4	41.8	14.4	51.5	46.5	16.4	57.2
SOM	0.91	0.94	18.1	6.3	21.7	19.7	6.8	24.0	22.0	7.7	26.7
STR	0.87	0.87	5.7	2.0	7.8	6.3	2.2	8.7	7.0	2.5	9.6
TBG	0.93	0.94	49.4	17.3	59.8	53.9	18.6	66.3	60.0	21.1	73.6
TBK	0.90	0.93	7.1	2.5	7.8	7.8	2.7	8.7	8.7	3.1	9.6
THU	0.91	0.92	20.8	7.3	28.0	22.7	7.8	31.1	25.3	8.9	34.5
TIP	0.95	0.95	0.0	0.0	20.9	16.8	5.8	23.2	18.7	6.6	25.7
TLK	0.91	0.91	13.3	4.7	18.1	14.5	5.0	20.0	16.1	5.7	22.2
TON	0.92	0.92	0.0	0.0	0.0	8.8	3.0	12.2	9.8	3.5	13.5
TRI	0.96	0.96	19.8	7.0	24.4	21.7	7.5	27.1	24.1	8.5	30.1
TRL	0.96	0.96	38.9	13.6	48.2	42.5	14.7	53.5	47.3	16.6	59.4
TSB	0.89	0.91	26.0	9.1	32.8	28.4	9.8	36.3	31.6	11.1	40.3
WAT	0.81	0.96	32.9	11.6	52.5	26.8	9.2	45.5	29.8	10.5	50.5
WEX	0.89	0.92	36.4	12.8	46.1	39.8	13.7	51.2	44.3	15.6	56.8
WHI	0.95	0.95	5.4	0.9	5.4	5.4	0.9	5.4	5.4	0.9	5.4
CKM	0.93	0.94	175.8	61.7	200.1	177.8	61.4	202.3	197.9	69.6	224.6
FIN	0.94	0.95	242.4	85.1	311.1	264.7	91.4	345.2	294.7	103.7	383.3
INC	0.95	0.95	182.8	64.1	233.3	201.5	69.5	261.5	224.3	78.9	290.3
PB	0.95	0.95	153.9	54.0	221.2	168.0	58.0	245.4	187.0	65.8	272.5