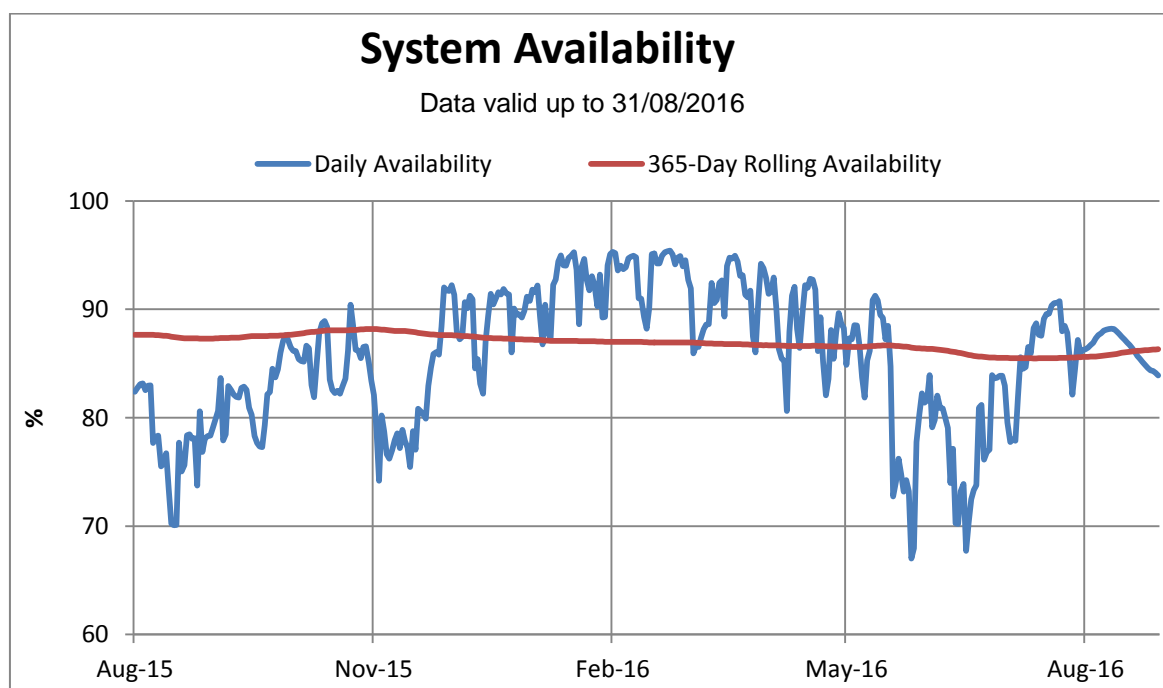


EirGrid Monthly Availability Report – August 2016

This report for July 2016, details the availability performance of the conventional generation units on the power system¹.

Key Points:

- The monthly forced outage rate increased from 5.22% in July to 7.69% in August
- The monthly system availability decreased from 85.78% in July to 83.9% in August
- The monthly scheduled outage rate decreased from 7.65% in July to 7.01% in August
- The 365-day rolling availability increased slightly in August 2016



Definitions

Availability: the capacity-weighted percentage of the time that generators were available.

Forced: outages where generators are unavailable due to unforeseen/unplanned outages.

Scheduled: outages where generators are unavailable due to planned reasons, e.g., for maintenance.

Ambient (*seasonal derating*): difference between the **Maximum Capacity** of a generator and the **Dependable Capacity** over a specified period of time.

Maximum Capacity: the maximum capacity that a unit can sustain over a specified period of time.

Dependable Capacity: the capacity of a unit, when modified for ambient conditions over a specified period of time.

365-day Rolling Availability: the average of the unit's **Availability** over the most recent 365 days (i.e., past year)

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¹ Based on EDIL (Electronic Dispatch Instruction Logger) declarations.

Table 1: Unit-by-Unit Average Monthly Availability Conventional Units – August 2016

Unit-by-Unit Average Monthly Availability – August 2016						
Company	Unit	Capacity	Monthly Availability %	Monthly Forced %	Monthly Scheduled %	Monthly Ambient %
Aughinish Alumina Ltd	Seal Rock - SK3	85	91.69	0	0	8.31
	Seal Rock - SK4	85	89.05	1.84	1.5	7.61
Bord Gáis	Whitegate – WG1	444	98.01	0	0	1.99
Edenderry Power Ltd	Edenderry – ED1	118	99.8	0.2	0	0
	Edenderry – ED3	58	98.73	0	1.27	0
	Edenderry – ED5	58	98.73	0	1.27	0
SSE Generation Ireland	Great Island – GI4	461	86.02	11.27	0.05	2.66
	Rhode – RP1	52	100	0	0	0
	Rhode – RP2	52	99.88	0.12	0	0
	Tarbert – TB1	54	99.81	0.19	0	0
	Tarbert – TB2	54	100	0	0	0
	Tarbert – TB3	241	100	0	0	0
	Tarbert – TB4	243	100	0	0	0
	Tawnaghmore - TP1	52	4.63	0	95.37	0
Tawnaghmore - TP3	52	86.02	11.27	0.05	2.66	
ESB Energy Ireland	Aghada - AD1	258	100	0	0	0
	Aghada - AD2	431	98.47	0.2	0	1.33
	Aghada - AT1	90	99.99	0	0	0.01
	Aghada - AT2	90	99.99	0	0	0.01
	Aghada - AT4	90	99.99	0	0	0.01
	Ardnacrusha - AA1	21	49.57	0	50.43	0
	Ardnacrusha - AA2	22	56.37	0	43.63	0
	Ardnacrusha - AA3	19	56.29	0.08	43.63	0
	Ardnacrusha - AA4	24	49.38	0.11	50.51	0
	Erne - ER1	10	91.37	0.3	8.33	0
	Erne - ER2	10	90.02	1.65	8.33	0
	Erne - ER3	22	100	0	0	0
	Erne - ER4	22	100	0	0	0
	Lee - LE1	15	0	0	100	0
	Lee - LE2	4	0	0	100	0
	Lee - LE3	8	62.35	0.24	37.41	0
	Liffey - LI1	15	84.83	0.11	15.06	0
	Liffey - LI2	15	83.93	1.01	15.06	0
	Liffey - LI4	4	0	0	100	0
	Liffey - LI5	4	100	0	0	0
	Lough Ree Power - LR4	91	89.27	10.73	0	0
	Marina - MRC	123	91.57	0	7.46	0.97
	Moneypoint - MP1	285	27.82	72.18	0	0
	Moneypoint - MP2	285	98.09	1.31	0.6	0
	Moneypoint - MP3	285	99.62	0.38	0	0
	North Wall – NW5	104	99.96	0.04	0	0
	Poolbeg – PBA	231	99.99	0.01	0	0
	Poolbeg - PBB	231	69.46	30.54	0	0
	Turlough Hill - TH1	73	100	0	0	0
	Turlough Hill - TH2	73	100	0	0	0
Turlough Hill - TH3	73	100	0	0	0	
Turlough Hill - TH4	73	100	0	0	0	
West Offaly Power - WO4	137	99.28	0.72	0	0	
Indaver	Indaver – IW1	16	99.73	0.27	0	0
Synergen	Dublin Bay - DB1	405	96.94	0.23	0	2.83
Tynagh Energy Ltd	Tynagh – TYC	384	95.58	0	0	4.42
Viridian Power & Energy	Huntstown - HN2	400	42.26	0	55.11	2.63
	Huntstown - HNC	342	93.47	0	0	6.53
System Total Average Availability			82.54	2.57	14.14	0.76

Table 2: Unit-by-Unit Average Monthly Availability Demand Side Units – August 2016

Unit-by-Unit Average Monthly Availability – August 2016						
Company	Unit	Capacity	Monthly Availability %	Monthly Forced %	Monthly Scheduled %	Monthly Ambient %
Activation Energy	Activation Energy 1 – AE1	101	43.66	40.56	15.78	0
	Activation Energy 2 – AE2	11	72.48	27.52	0	0
	Activation Energy 3 – AE3	14	85.71	0	14.29	0
	Activation Energy 4 – AE4	11	91.67	0	8.33	0
	Activation Energy 5 – AE5	15	25.72	62.04	12.24	0
DAE VPP	DAE VPP – DP1	39	41.86	0.26	57.88	0
Endeco	Endeco 1 – EC1	34	77.16	0	22.84	0
Electricity Exchange Ltd.	Electricity Exchange – EE1	20	57.62	31.01	11.37	0
Electric Ireland	Electric Ireland – EI1	20	76.29	12.08	11.63	0
Energy Trading Ireland	Energy Trading – ET1	11	95.44	4.56	0	0
Powerhouse	Powerhouse – PG1	7	86.12	13.88	0	0
Viridian Power & Energy	Viridian Energy – VE1	7	57.04	0	42.96	0
System Total Average Availability			67.56	15.99	16.44	0

Table 3: System Total Average Monthly Availability – August 2016

	Monthly Availability %	Monthly Forced %	Monthly Scheduled %	Monthly Ambient %
System Total Average Availability	83.9	7.69	7.01	1.4

Table 4: Unit-by-Unit 365 Day Rolling Availability Conventional Units – August 2015 to August 2016

Unit-by-Unit 365 Day Rolling Availability – August 2015 to August 2016						
Company	Unit	Capacity	Monthly Availability %	Monthly Forced %	Monthly Scheduled %	Monthly Ambient %
Aughinish Alumina Ltd	Seal Rock - SK3	85	90.19	1.57	1.83	6.41
	Seal Rock - SK4	85	84.44	1.41	9.07	5.08
Bord Gáis	Whitegate – WG1	444	89.94	1.64	7.6	0.82
Edenderry Power Ltd	Edenderry – ED1	118	88.17	8.58	3.25	0
	Edenderry – ED3	58	99.74	0.15	0.11	0
	Edenderry – ED5	58	99.71	0.18	0.11	0
SSE Generation Ireland	Great Island – GI4	461	81.75	10.97	6.18	1.1
	Rhode – RP1	52	96.97	2.83	0.2	0
	Rhode – RP2	52	99.45	0.35	0.2	0
	Tarbert – TB1	54	80.23	0.02	19.75	0
	Tarbert – TB2	54	85.98	0.26	13.76	0
	Tarbert – TB3	241	98.64	0.98	0.38	0
	Tarbert – TB4	243	94.24	5.6	0.16	0
	Tawnaghmore - TP1 Tawnaghmore - TP3	52 52	89.03 84.61	1.17 0.44	9.8 14.95	0 0
ESB Energy Ireland	Aghada - AD1	258	93.83	5.4	0.77	0
	Aghada - AD2	431	95.63	0.38	3.4	0.59
	Aghada - AT1	90	95.48	0.37	4.15	0
	Aghada - AT2	90	95.75	0.01	4.22	0.02
	Aghada - AT4	90	96.1	0.74	3.13	0.03
	Ardnacrusha - AA1	21	75.48	0.93	23.59	0
	Ardnacrusha - AA2	22	76.44	0.2	23.36	0
	Ardnacrusha - AA3	19	74.98	0.48	24.54	0
	Ardnacrusha - AA4	24	68.99	3.71	27.3	0
	Erne - ER1	10	42.89	0.76	56.35	0
	Erne - ER2	10	91.33	4.92	3.75	0
	Erne - ER3	22	92.82	0.71	6.47	0
	Erne - ER4	22	96.63	1.48	1.89	0
	Lee - LE1	15	56.81	1.93	41.26	0
	Lee - LE2	4	58.68	0	41.32	0
	Lee - LE3	8	94.74	0.12	5.14	0
	Liffey - LI1	15	47.87	1.72	50.41	0
	Liffey - LI2	15	52.48	5.25	42.27	0
	Liffey - LI4	4	26.2	0.6	73.2	0
	Liffey - LI5	4	97.34	0.34	2.32	0
	Lough Ree Power - LR4	91	91.74	4.28	3.98	0
	Marina - MRC	123	97.84	0.49	0.63	1.04
	Moneypoint - MP1	285	83.51	15.85	0.64	0
	Moneypoint - MP2	285	79.33	10.51	10.16	0
	Moneypoint - MP3	285	87.1	10	2.9	0
	North Wall – NW5	104	90.67	4.09	4.76	0.48
	Poolbeg – PBA	231	94	1.22	4.78	0
	Poolbeg - PBB	231	74.4	10.54	15.06	0
	Turlough Hill - TH1	73	92.72	0	7.28	0
	Turlough Hill - TH2	73	91.58	1.18	7.24	0
Turlough Hill - TH3	73	95.98	0.39	3.63	0	
Turlough Hill - TH4	73	96.3	0.16	3.54	0	
West Offaly Power - WO4	137	86.11	4.68	9.21	0	
Indaver	Indaver – IW1	16	87.37	12.63	0	0
Synergen	Dublin Bay - DB1	405	96.37	0.54	1.94	1.15
Tynagh Energy Ltd	Tynagh – TYC	384	94.71	1.18	1.62	2.49
Viridian Power & Energy	Huntstown - HN2	400	89.89	0.77	5.99	3.35
	Huntstown - HNC	342	87.27	0.52	8.77	3.44
System Total Average Availability			85.1	2.74	11.67	0.49

*PBA and PBB effective in the SEM since 24th May 2016

Table 5: Unit-by-Unit 365 Day Rolling Availability Demand Side Units – August 2015 to August 2016

Unit-by-Unit 365 Day Rolling Availability – August 2015 to August 2016						
Company	Unit	Capacity	Monthly Availability %	Monthly Forced %	Monthly Scheduled %	Monthly Ambient %
Activation Energy	Activation Energy 1 – AE1	101	48.19	38.33	13.48	0
	Activation Energy 2 – AE2	11	68.22	31.21	0.57	0
	Activation Energy 3 – AE3	14	88.3	5.66	6.04	0
	Activation Energy 4 – AE4	11	89.24	8.16	2.6	0
	Activation Energy 5 – AE5	15	12.41	80.36	7.23	0
DAE VPP	DAE VPP – DP1	39	39.41	50	10.59	0
Endeco	Endeco 1 – EC1	34	69.14	0.02	30.84	0
Electricity Exchange Ltd.	Electricity Exchange – EE1	20	65.37	25.49	9.14	0
Electric Ireland	Electric Ireland – EI1	20	79.23	7.13	13.64	0
Energy Trading Ireland	Energy Trading – ET1	11	81.69	18.31	0	0
Powerhouse	Powerhouse – PG1	7	80.89	19.11	0	0
Viridian Power & Energy	Viridian Energy – VE1	7	47.15	0	52.85	0
System Total Average Availability			64.1	23.65	12.25	0

*Figures are reflective since AE4 and AE5 became effective in the SEM on 10/05/16 and 12/04/16 respectively

Table 6: 365 Day Rolling System Total Average Availability – August 2015 to August 2016

	Monthly Availability %	Monthly Forced %	Monthly Scheduled %	Monthly Ambient %
System Total Average Availability	86.69	6.84	5.57	0.9