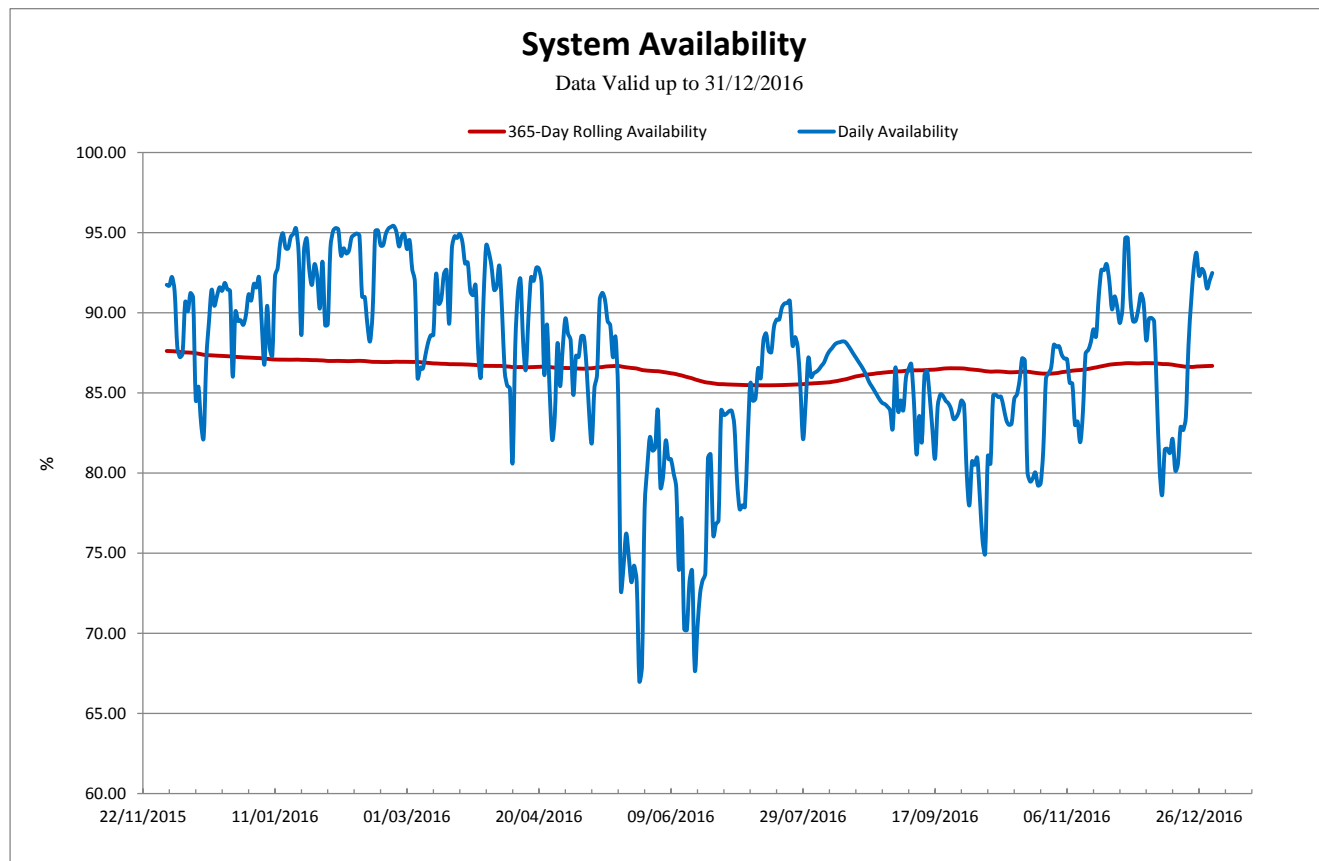


EirGrid Monthly Availability Report – December 2016

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



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 – December 2016

Unit-by-Unit Average Monthly Availability – December 2016						
Company	Unit	Capacity	Monthly Availability %	Monthly Forced %	Monthly Scheduled %	Monthly Ambient %
Aughinish Alumina Ltd	Seal Rock - SK3	85	94.43	2.44	0	3.13
	Seal Rock - SK4	85	97.38	1.11	0	1.51
Bord Gáis	Whitegate – WG1	444	99.89	0	0	0.11
Edenderry Power Ltd	Edenderry – ED1	118	78.34	21.66	0	0
	Edenderry – ED3	58	100	0	0	0
	Edenderry – ED5	58	100	0	0	0
SSE Generation Ireland	Great Island – GI4	461	82.35	0.11	17.54	0
	Rhode – RP1	52	100	0	0	0
	Rhode – RP2	52	100	0	0	0
	Tarbert – TB1	54	90.85	8.87	0	0.28
	Tarbert – TB2	54	96.83	3.17	0	0
	Tarbert – TB3	241	97.08	2.92	0	0
	Tarbert – TB4	243	100	0	0	0
	Tawnaghmore - TP1 Tawnaghmore - TP3	52 52	100 100	0 0	0 0	0 0
ESB Energy Ireland	Aghada - AD1	258	43.05	56.95	0	0
	Aghada - AD2	431	99.91	0.09	0	0
	Aghada - AT1	90	99.17	0	0.83	0
	Aghada - AT2	90	95.61	3.31	1.08	0
	Aghada - AT4	90	95.44	3.09	1.47	0
	Ardnacrusha - AA1	21	88.29	0	11.71	0
	Ardnacrusha - AA2	22	86.89	0.06	13.05	0
	Ardnacrusha - AA3	19	76.43	11.13	12.44	0
	Ardnacrusha - AA4	24	87.13	0	12.87	0
	Erne - ER1	10	99.78	0.22	0	0
	Erne - ER2	10	100	0	0	0
	Erne - ER3	22	100	0	0	0
	Erne - ER4	22	99.5	0	0.5	0
	Lee - LE1	15	0	0	100	0
	Lee - LE2	4	0	0	100	0
	Lee - LE3	8	100	0	0	0
	Liffey - LI1	15	100	0	0	0
	Liffey - LI2	15	100	0	0	0
	Liffey - LI4	4	0	0	100	0
	Liffey - LI5	4	100	0	0	0
	Lough Ree Power - LR4	91	79.74	20.26	0	0
	Marina - MRC	123	98.95	0	0	1.05
	Moneypoint - MP1	285	91.83	8.17	0	0
	Moneypoint - MP2	285	65.91	34.09	0	0
	Moneypoint - MP3	285	71.15	28.85	0	0
	North Wall – NW5	104	98.83	1.17	0	0
	Poolbeg – PBA	231	100	0	0	0
Poolbeg - PBB	231	98.93	1.07	0	0	
Turlough Hill - TH1	73	94.68	0	5.32	0	
Turlough Hill - TH2	73	99.38	0.62	0	0	
Turlough Hill - TH3	73	94.76	5.24	0	0	
Turlough Hill - TH4	73	94.59	5.23	0.18	0	
West Offaly Power - WO4	137	94.7	5.3	0	0	
Indaver	Indaver – IW1	16	96.87	3.13	0	0
Synergen	Dublin Bay - DB1	405	99.56	0.43	0	0.01
Tynagh Energy Ltd	Tynagh – TYC	384	98.99	0	0	1.01
Viridian Power & Energy	Huntstown - HN2	400	98.58	0	0	1.42
	Huntstown - HNC	342	79.55	9.41	10.02	1.02
System Total Average Availability			91.14	7.04	1.53	0.29

Whilst it strives to ensure as high a level of accuracy as possible, EirGrid makes no warranties or representations of any kind with respect to the content of this report (including without limitation its quality, accuracy, and completeness.) and EirGrid accepts no liability for any reliance on the information presented here.

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

Unit-by-Unit Average Monthly Availability – December 2016						
Company	Unit	Capacity	Monthly Availability %	Monthly Forced %	Monthly Scheduled %	Monthly Ambient %
Activation Energy	Activation Energy 1 – AE1	103	28.68	61.25	10.07	0
	Activation Energy 2 – AE2	11	66.07	33.93	0	0
	Activation Energy 3 – AE3	14	78.57	21.43	0	0
	Activation Energy 4 – AE4	11	0	100	0	0
	Activation Energy 5 – AE5	15	32.26	59.55	8.19	0
DAE VPP	DAE VPP – DP1	29	65.69	0.23	34.08	0
	DAE VPP – DP2	10	0	0	100	0
Electricity Exchange Ltd.	Electricity Exchange – EE1	20	48.93	22.36	28.71	0
	Electricity Exchange – EE2	18	76.08	10.16	13.76	0
Electric Ireland	Electric Ireland – EI1	20	78.41	2.91	18.68	0
Endeco	Endeco 1 – EC1	37	63.96	0	36.04	0
Energy Trading Ireland	Energy Trading – ET1	11	92.97	7.03	0	0
Powerhouse	Powerhouse – PG1	10	84.52	15.48	0	0
Viridian Power & Energy	Viridian Energy – VE1	25	59.57	0	40.43	0
System Total Average Availability			50.33	29.65	20.02	0.00

Table 3: System Total Average Monthly Availability – December 2016

	Monthly Availability %	Monthly Forced %	Monthly Scheduled %	Monthly Ambient %
System Total Average Availability	87.32	10.06	2.35	0.27

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

Unit-by-Unit 365 Day Rolling Availability – December 2015 to December 2016						
Company	Unit	Capacity	Monthly Availability %	Monthly Forced %	Monthly Scheduled %	Monthly Ambient %
Aughinish Alumina Ltd	Seal Rock - SK3	85	89.47	2.04	2.84	5.65
	Seal Rock - SK4	85	85.14	0.88	9.47	4.51
Bord Gáis	Whitegate – WG1	444	90.69	1.66	6.82	0.83
Edenderry Power Ltd	Edenderry – ED1	118	86.28	10.29	3.43	0
	Edenderry – ED3	58	99.73	0.16	0.11	0
	Edenderry – ED5	58	99.82	0.07	0.11	0
SSE Generation Ireland	Great Island – GI4	461	84.9	6.48	7.44	1.18
	Rhode – RP1	52	97.4	2.58	0.02	0
	Rhode – RP2	52	99.07	0.91	0.02	0
	Tarbert – TB1	54	98.04	1.26	0.7	0
	Tarbert – TB2	54	98.75	0.84	0.41	0
	Tarbert – TB3	241	99.17	0.67	0.16	0
	Tarbert – TB4	243	94.93	4.91	0.16	0
	Tawnaghmore - TP1 Tawnaghmore - TP3	52 52	66.07 59.71	2.47 0.45	31.46 39.84	0 0
ESB Energy Ireland	Aghada - AD1	258	94.19	5.04	0.77	0
	Aghada - AD2	431	97.16	0.27	2.1	0.47
	Aghada - AT1	90	98.37	0.36	1.27	0
	Aghada - AT2	90	98.43	0.28	1.29	0
	Aghada - AT4	90	97.3	0.36	2.34	0
	Ardnacrusha - AA1	21	75.23	1.24	23.53	0
	Ardnacrusha - AA2	22	76.38	0.4	23.22	0
	Ardnacrusha - AA3	19	74.5	2.5	23	0
	Ardnacrusha - AA4	24	63.59	3.56	32.85	0
	Erne - ER1	10	75.78	0.9	23.32	0
	Erne - ER2	10	91.51	7.19	1.3	0
	Erne - ER3	22	93.25	0.24	6.51	0
	Erne - ER4	22	96.99	1.55	1.46	0
	Lee - LE1	15	23.42	1.9	74.68	0
	Lee - LE2	4	25.25	0	74.75	0
	Lee - LE3	8	94.5	0.12	5.38	0
	Liffey - LI1	15	77.79	1.98	20.23	0
	Liffey - LI2	15	80.1	5.93	13.97	0
	Liffey - LI4	4	21.65	0.6	77.75	0
	Liffey - LI5	4	93.31	5.52	1.17	0
	Lough Ree Power - LR4	91	88.79	7.51	3.7	0
	Marina - MRC	123	98.31	0.01	0.72	0.96
	Moneypoint - MP1	285	82.48	17.44	0.08	0
	Moneypoint - MP2	285	88.46	11.46	0.08	0
	Moneypoint - MP3	285	90.92	6.18	2.9	0
	North Wall – NW5	104	95.81	0.66	3.21	0.32
	Poolbeg – PBA	231	95.45	1.01	3.53	0.01
	Poolbeg - PBB	231	86.82	6.38	6.79	0.01
	Turlough Hill - TH1	73	94.28	0.62	5.1	0
	Turlough Hill - TH2	73	88.56	7.04	4.4	0
Turlough Hill - TH3	73	96.19	0.45	3.36	0	
Turlough Hill - TH4	73	95.9	0.6	3.5	0	
West Offaly Power - WO4	137	85.21	5.58	9.21	0	
Indaver	Indaver – IW1	16	87.63	12.37	0	0
Synergen	Dublin Bay - DB1	405	80.72	0.45	17.81	1.02
Tynagh Energy Ltd	Tynagh – TYC	384	94.07	1.94	1.5	2.49
Viridian Power & Energy	Huntstown - HN2	400	87.04	0.98	8.94	3.04
	Huntstown - HNC	342	85.68	1.42	9.59	3.31
System Total Average Availability			89.84	3.60	5.71	0.85

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

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

Unit-by-Unit Average Monthly Availability – December 2016						
Company	Unit	Capacity	Monthly Availability %	Monthly Forced %	Monthly Scheduled %	Monthly Ambient %
Activation Energy	Activation Energy 1 – AE1	101	44.91	41	14.09	0
	Activation Energy 2 – AE2	11	70.01	29.77	0.22	0
	Activation Energy 3 – AE3	14	88.11	5.03	6.86	0
	Activation Energy 4 – AE4	11	83.14	13.34	3.52	0
	Activation Energy 5 – AE5	15	14.94	76.6	8.46	0
DAE VPP	DAE VPP – DP1	39	43.45	39.86	16.69	0
	DAE VPP – DP2	10	8.33	0	91.67	0
Endeco	Endeco 1 – EC1	34	69.72	0.02	30.26	0
Electricity Exchange Ltd.	Electricity Exchange – EE1	20	62.35	28.49	9.16	0
	Electricity Exchange – EE2	18	25.07	13.81	61.12	0
Electric Ireland	Electric Ireland – EI1	20	79.3	6.73	13.97	0
Energy Trading Ireland	Energy Trading – ET1	11	81.71	18.29	0	0
Powerhouse	Powerhouse – PG1	7	81.01	18.99	0	0
Viridian Power & Energy	Viridian Energy – VE1	7	51.32	0.07	48.61	0
System Total Average Availability			53.93	24.99	21.08	0.00

*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 – December 2015 to December 2016

	Monthly Availability %	Monthly Forced %	Monthly Scheduled %	Monthly Ambient %
System Total Average Availability	86.22	6.72	6.24	0.82