

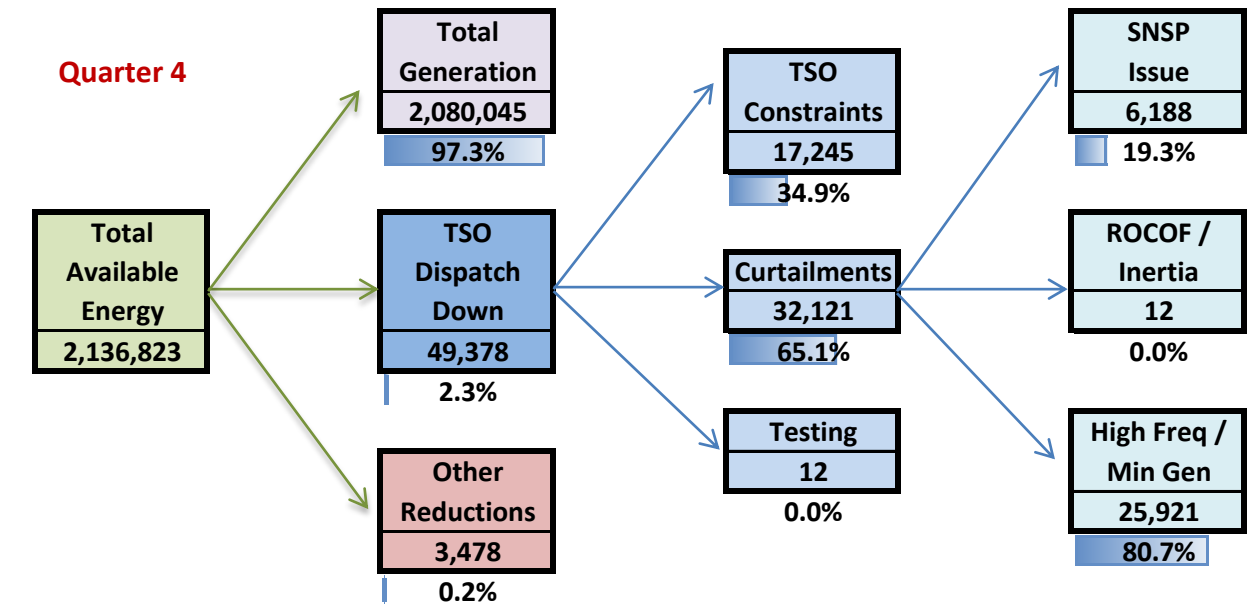
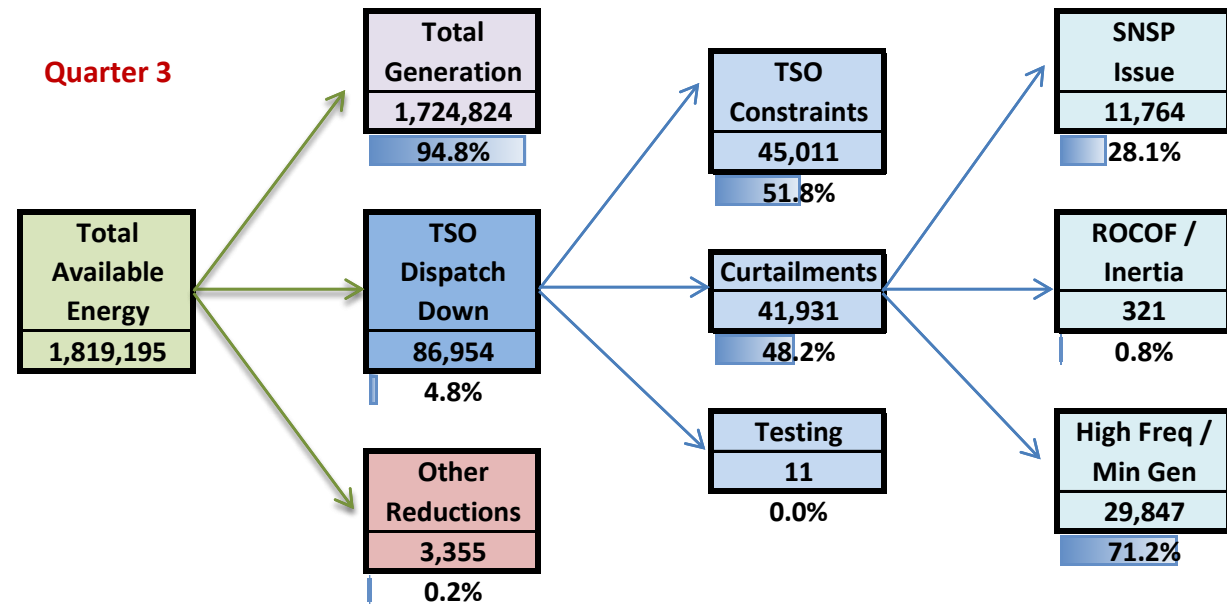
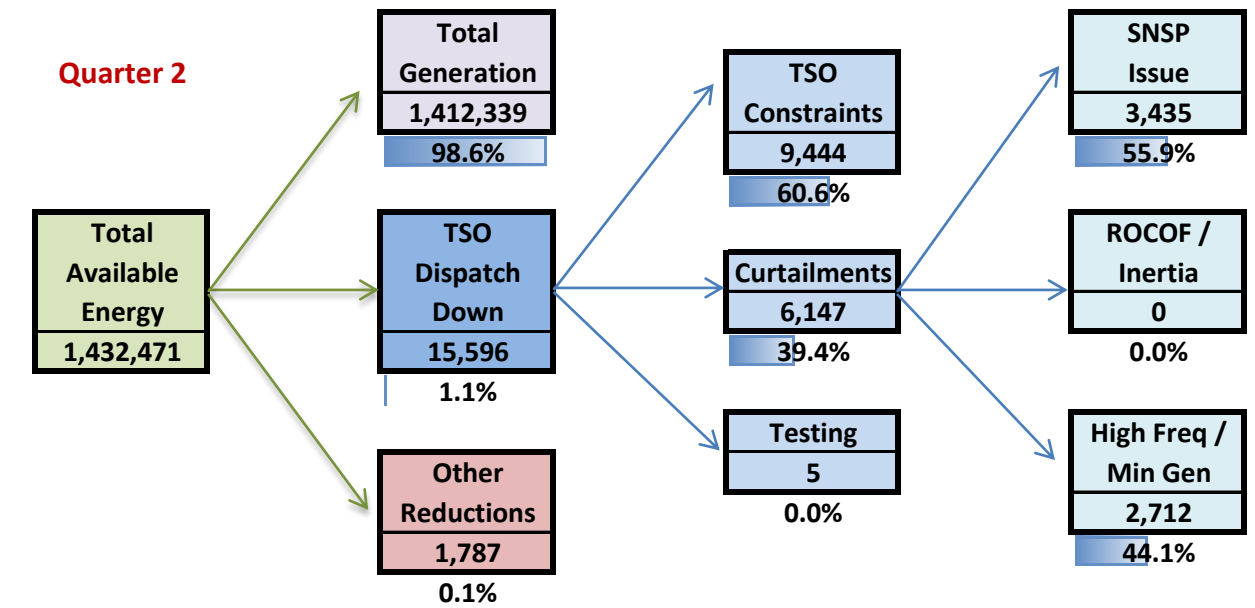
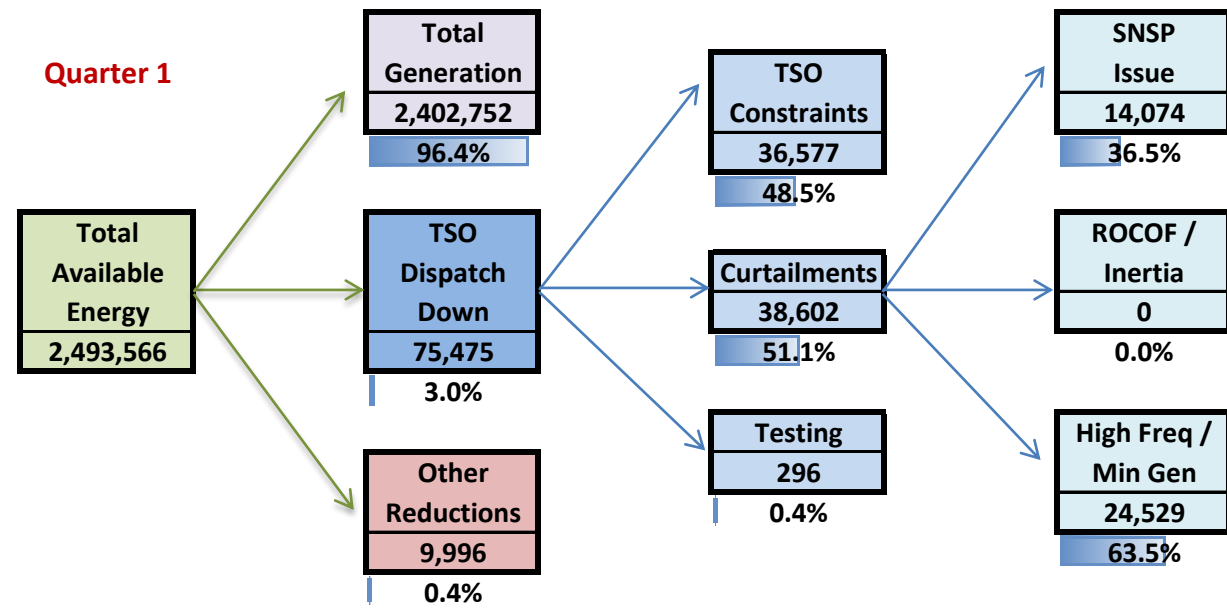
Volumes (MWh)	Jan	Feb	Mar	Qtr1	Apr	May	Jun	Qtr2	Jul	Aug	Sep	Qtr3	Oct	Nov	Dec	Qtr4	2016
Available Energy	1,016,004	833,623	643,940	2,493,566	592,487	458,284	381,700	1,432,471	444,520	655,401	719,275	1,819,195	578,636	623,107	935,080	2,136,823	7,882,056
Generation	973,868	802,289	626,595	2,402,752	582,302	451,508	378,529	1,412,339	429,816	619,517	675,491	1,724,824	566,420	612,579	901,046	2,080,045	7,619,960
TSO Dispatch Down	35,754	26,022	13,700	75,475	7,448	5,569	2,580	15,596	13,659	33,035	40,260	86,954	10,479	8,358	30,542	49,378	227,404
Other Reductions	4,090	3,532	2,374	9,996	1,357	257	173	1,787	324	1,419	1,612	3,355	735	1,084	1,659	3,478	18,615
TSO Dispatch Down:																	
TSO Constraints	15,155	12,754	8,668	36,577	6,577	1,098	1,769	9,444	11,495	23,937	9,580	45,011	7,206	3,661	6,378	17,245	108,278
Curtailments	20,576	13,024	5,003	38,602	871	4,470	807	6,147	2,164	9,098	30,669	41,931	3,264	4,693	24,164	32,121	118,802
TSO Testing	23	244	29	296	0	1	4	5	0	0	11	11	9	3	-	12	324
Curtailments:																	
SNSP Issue	5,795	6,329	1,950	14,074	-	3,435	-	3,435	-	2,410	9,353	11,764	1,048	-	5,140	6,188	35,460
ROCOF / Inertia	-	-	-	-	-	-	-	-	-	14	306	321	12	-	-	12	333
High Freq / Min Gen	14,781	6,696	3,052	24,529	871	1,035	807	2,712	2,164	6,673	21,009	29,847	2,204	4,693	19,024	25,921	83,009

Percentages	Jan	Feb	Mar	Qtr1	Apr	May	Jun	Qtr2	Jul	Aug	Sep	Qtr3	Oct	Nov	Dec	Qtr4	2016
Generation	95.9%	96.2%	97.3%	96.4%	98.3%	98.5%	99.2%	98.6%	96.7%	94.5%	93.9%	94.8%	97.9%	98.3%	96.4%	97.3%	96.7%
TSO Dispatch Down	3.5%	3.1%	2.1%	3.0%	1.3%	1.2%	0.7%	1.1%	3.1%	5.0%	5.6%	4.8%	1.8%	1.3%	3.3%	2.3%	2.9%
Other Reductions	0.4%	0.4%	0.4%	0.4%	0.2%	0.1%	0.0%	0.1%	0.1%	0.2%	0.2%	0.2%	0.1%	0.2%	0.2%	0.2%	0.2%
TSO Dispatch Down:																	
TSO Constraints	42.4%	49.0%	63.3%	48.5%	88.3%	19.7%	68.6%	60.6%	84.2%	72.5%	23.8%	51.8%	68.8%	43.8%	20.9%	34.9%	47.6%
Curtailments	57.5%	50.1%	36.5%	51.1%	11.7%	80.3%	31.3%	39.4%	15.8%	27.5%	76.2%	48.2%	31.1%	56.2%	79.1%	65.1%	52.2%
TSO Testing	0.1%	0.9%	0.2%	0.4%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.1%
Curtailments:																	
SNSP Issue	28.2%	48.6%	39.0%	36.5%	0.0%	76.8%	0.0%	55.9%	0.0%	26.5%	30.5%	28.1%	32.1%	0.0%	21.3%	19.3%	29.8%
ROCOF / Inertia	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	1.0%	0.8%	0.4%	0.0%	0.0%	0.0%	0.3%
High Freq / Min Gen	71.8%	51.4%	61.0%	63.5%	100.0%	23.2%	100.0%	44.1%	100.0%	73.3%	68.5%	71.2%	67.5%	100.0%	78.7%	80.7%	69.9%

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Graphical Representation of the Breakdown of Wind Dispatch Down Energy Volumes (MWh) and Percentages (%)



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Historical Wind Dispatch Down Percentages (Ireland, Northern Ireland and All Island)

Month	2011			2012			2013			2014			2015			2016		
	NI	IE	AI	NI	IE	AI	NI	IE	AI	NI	IE	AI	NI	IE	AI	NI	IE	AI
Jan	0.0%	0.8%	0.6%	0.5%	2.2%	1.9%	0.7%	0.4%	0.5%	2.9%	4.9%	4.5%	4.3%	4.3%	4.3%	3.4%	3.5%	3.5%
Feb	0.0%	0.6%	0.5%	0.2%	2.8%	2.2%	0.3%	0.7%	0.6%	3.2%	3.7%	3.6%	4.6%	4.1%	4.2%	2.3%	3.3%	3.1%
Mar	2.7%	1.8%	2.0%	0.8%	2.4%	2.0%	0.6%	0.3%	0.3%	1.8%	4.0%	3.5%	11.4%	8.0%	8.8%	0.9%	2.4%	2.1%
Qtr1	0.7%	1.0%	0.9%	0.5%	2.4%	2.0%	0.6%	0.4%	0.5%	2.7%	4.2%	3.9%	6.9%	5.4%	5.8%	2.4%	3.2%	3.0%
Apr	1.3%	1.2%	1.3%	0.2%	1.4%	1.2%	2.6%	4.7%	4.3%	1.8%	4.2%	3.7%	2.8%	1.8%	2.0%	0.8%	1.4%	1.3%
May	2.2%	3.5%	3.2%	0.6%	1.6%	1.4%	3.7%	6.1%	5.6%	1.5%	2.8%	2.5%	3.8%	4.5%	4.3%	1.1%	1.2%	1.2%
Jun	0.4%	0.8%	0.7%	0.4%	4.0%	3.3%	1.9%	3.7%	3.4%	0.6%	3.3%	2.7%	4.2%	5.0%	4.8%	0.3%	0.7%	0.7%
Qtr2	1.6%	2.3%	2.2%	0.4%	2.2%	1.9%	2.9%	5.0%	4.6%	1.5%	3.4%	3.0%	3.7%	3.9%	3.8%	0.8%	1.2%	1.1%
Jul	0.2%	3.3%	2.8%	0.5%	1.9%	1.6%	0.8%	4.2%	3.4%	1.6%	3.9%	3.4%	2.8%	3.8%	3.7%	6.2%	2.3%	3.1%
Aug	0.0%	0.7%	0.5%	4.0%	4.2%	4.1%	2.4%	5.4%	4.7%	3.8%	3.5%	3.6%	5.0%	5.8%	5.6%	7.0%	4.6%	5.0%
Sep	2.4%	3.9%	3.7%	0.4%	4.8%	3.7%	0.5%	4.2%	3.3%	0.1%	2.2%	1.8%	1.5%	2.7%	2.5%	5.8%	5.6%	5.6%
Qtr3	1.5%	3.1%	2.8%	1.5%	3.8%	3.3%	1.3%	4.6%	3.9%	2.4%	3.3%	3.1%	3.1%	4.1%	3.9%	6.3%	4.4%	4.8%
Oct	2.4%	4.7%	4.3%	0.0%	0.3%	0.2%	1.6%	5.9%	5.0%	4.5%	8.2%	7.4%	4.2%	3.8%	3.9%	1.9%	1.8%	1.8%
Nov	1.2%	2.3%	2.1%	0.1%	1.0%	0.8%	4.0%	3.0%	3.2%	2.0%	3.2%	3.0%	6.9%	6.8%	6.9%	2.7%	1.0%	1.3%
Dec	0.7%	2.2%	1.9%	0.8%	2.8%	2.5%	2.0%	4.4%	3.8%	4.5%	5.0%	4.9%	6.2%	6.3%	6.3%	3.8%	3.1%	3.3%
Qtr4	1.4%	2.9%	2.6%	0.4%	1.6%	1.4%	2.4%	4.5%	4.0%	3.9%	5.7%	5.3%	6.1%	6.0%	6.0%	3.0%	2.1%	2.3%
Year Total	1.3%	2.4%	2.2%	0.7%	2.5%	2.1%	1.9%	3.5%	3.2%	2.8%	4.4%	4.1%	5.3%	5.1%	5.1%	3.2%	2.8%	2.9%

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Regional Wind Dispatch Down Percentages

Region	Jan	Feb	Mar	Qtr1	Apr	May	Jun	Qtr2	Jul	Aug	Sep	Qtr3	Oct	Nov	Dec	Qtr4	2016
NI	3.4%	2.3%	0.9%	2.4%	0.8%	1.1%	0.3%	0.8%	6.2%	7.0%	5.8%	6.3%	1.9%	2.7%	3.8%	3.0%	3.2%
M	1.8%	1.2%	0.4%	1.3%	0.1%	1.0%	0.1%	0.4%	0.2%	1.1%	5.2%	2.5%	0.8%	0.8%	3.1%	1.7%	1.5%
NE	1.6%	0.6%	0.2%	0.9%	0.3%	1.0%	0.3%	0.5%	0.3%	1.2%	3.2%	1.9%	0.4%	0.5%	4.0%	2.1%	1.4%
NW	1.9%	1.6%	3.8%	2.3%	2.2%	1.1%	0.3%	1.4%	2.7%	9.4%	10.7%	8.2%	2.6%	2.1%	3.4%	2.9%	3.4%
SE	2.2%	3.0%	1.7%	2.3%	0.2%	1.4%	0.2%	0.6%	0.5%	1.9%	4.6%	2.7%	0.7%	0.6%	4.0%	1.9%	2.0%
SW	7.2%	6.9%	3.9%	6.2%	2.7%	1.8%	1.5%	2.1%	5.2%	7.8%	6.9%	6.8%	3.1%	1.2%	3.9%	2.9%	4.8%
W	1.5%	1.7%	2.3%	1.8%	1.4%	1.4%	0.7%	1.2%	0.5%	3.7%	6.5%	4.0%	2.0%	1.8%	3.2%	2.5%	2.4%

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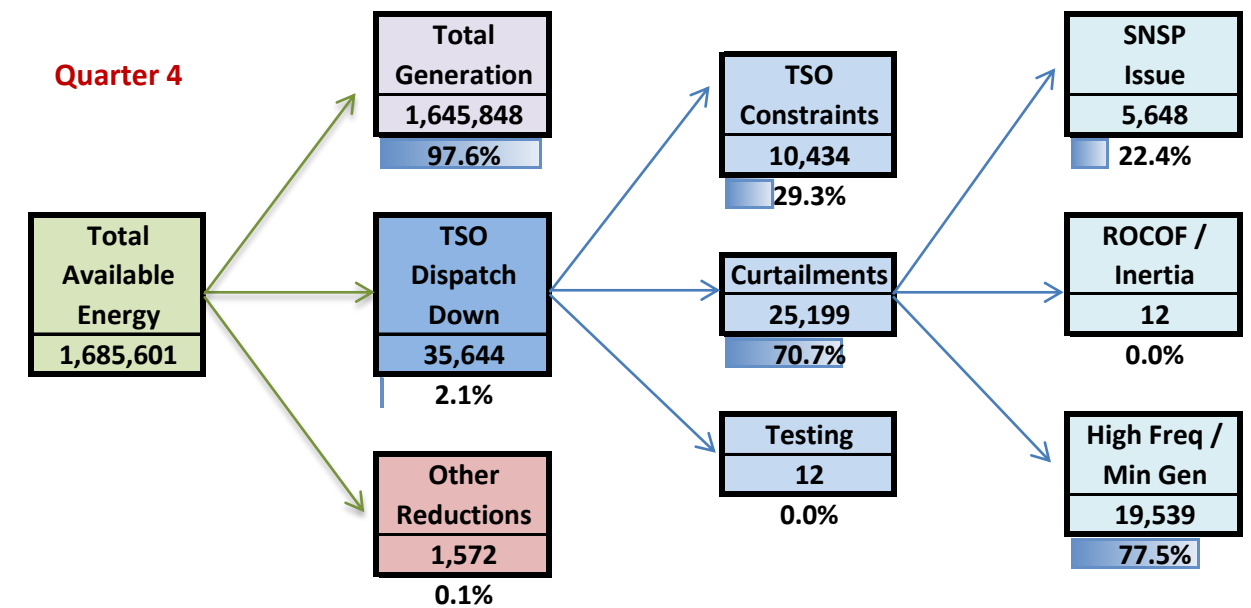
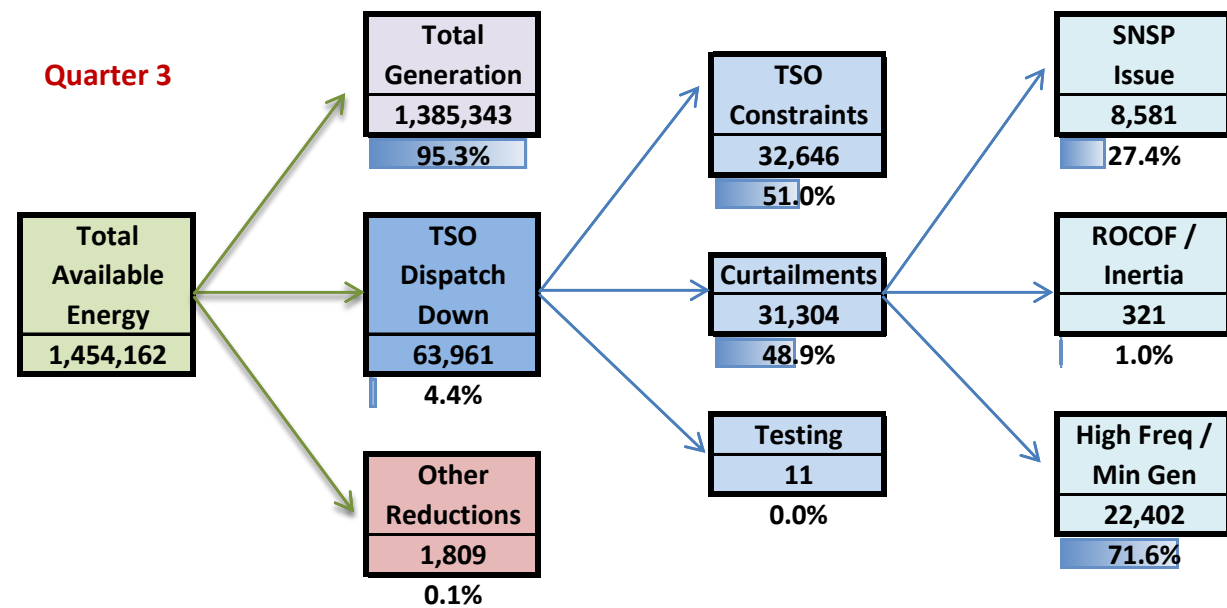
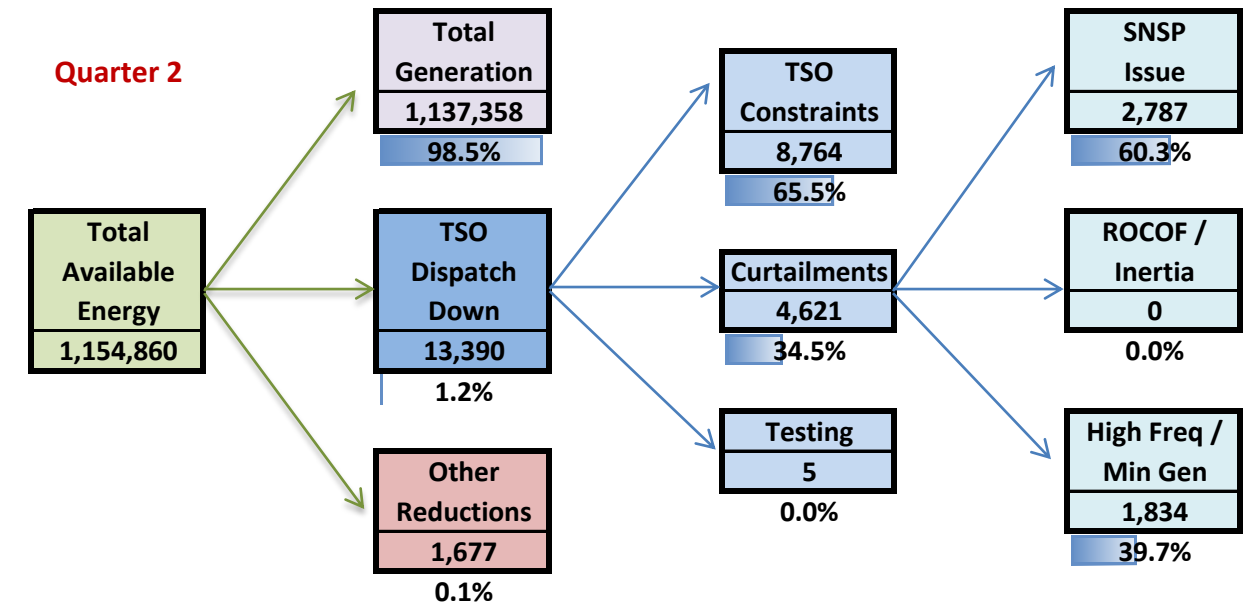
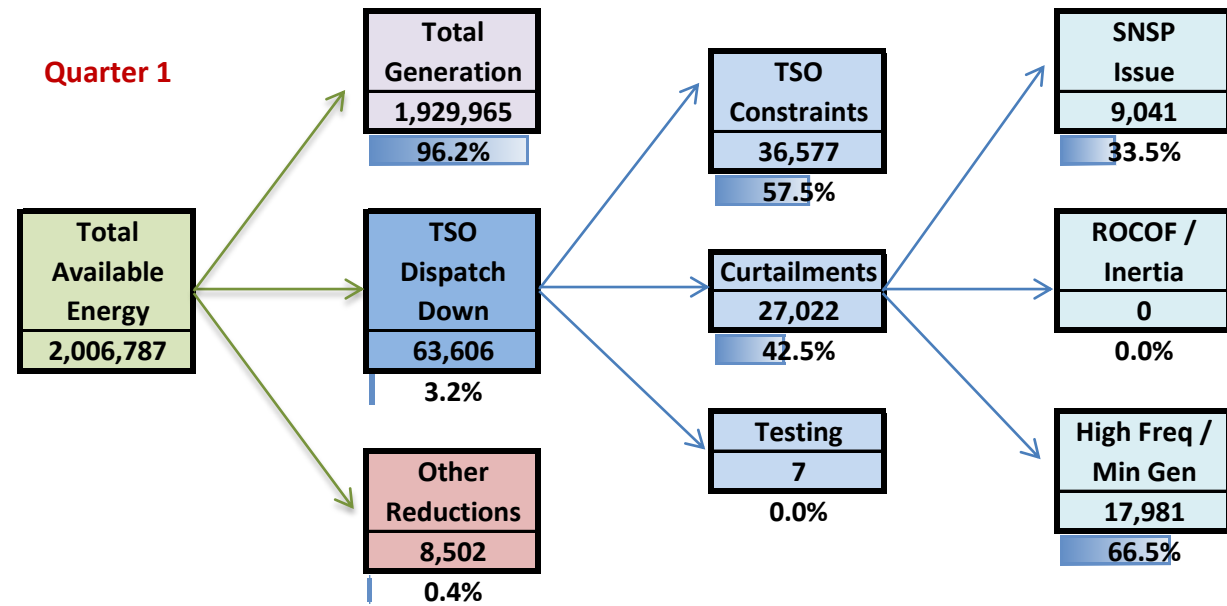
Volumes (MWh)	Jan	Feb	Mar	Qtr1	Apr	May	Jun	Qtr2	Jul	Aug	Sep	Qtr3	Oct	Nov	Dec	Qtr4	2016
Available Energy	816,192	666,725	523,870	2,006,787	476,821	359,271	318,768	1,154,860	359,270	525,117	569,774	1,454,162	460,159	507,166	718,277	1,685,601	6,301,410
Generation	781,763	640,037	508,165	1,929,965	467,613	353,836	315,910	1,137,358	350,297	499,183	535,863	1,385,343	451,054	501,318	693,476	1,645,848	6,098,515
TSO Dispatch Down	28,865	22,135	12,606	63,606	6,568	4,444	2,378	13,390	8,348	23,974	31,638	63,961	8,230	5,216	22,199	35,644	176,601
Other Reductions	3,631	2,947	1,924	8,502	1,310	247	120	1,677	126	887	796	1,809	351	187	1,034	1,572	13,560
TSO Dispatch Down:																	
TSO Constraints	15,155	12,754	8,668	36,577	5,897	1,098	1,769	8,764	7,290	17,134	8,223	32,646	5,500	1,363	3,571	10,434	88,421
Curtailments	13,708	9,377	3,937	27,022	670	3,345	606	4,621	1,059	6,841	23,404	31,304	2,721	3,850	18,628	25,199	88,146
TSO Testing	2	5	-	7	0	1	4	5	0	0	11	11	9	3	-	12	34
Curtailments:																	
SNSP Issue	3,579	3,931	1,532	9,041	-	2,787	-	2,787	-	1,272	7,308	8,581	1,048	-	4,600	5,648	26,057
ROCOF / Inertia	-	-	-	-	-	-	-	-	-	14	306	321	12	-	-	12	333
High Freq / Min Gen	10,130	5,446	2,405	17,981	670	558	606	1,834	1,059	5,554	15,789	22,402	1,660	3,850	14,028	19,539	61,755

Percentages	Jan	Feb	Mar	Qtr1	Apr	May	Jun	Qtr2	Jul	Aug	Sep	Qtr3	Oct	Nov	Dec	Qtr4	2016
Generation	95.8%	96.0%	97.0%	96.2%	98.1%	98.5%	99.1%	98.5%	97.5%	95.1%	94.0%	95.3%	98.0%	98.8%	96.5%	97.6%	96.8%
TSO Dispatch Down	3.5%	3.3%	2.4%	3.2%	1.4%	1.2%	0.7%	1.2%	2.3%	4.6%	5.6%	4.4%	1.8%	1.0%	3.1%	2.1%	2.8%
Other Reductions	0.4%	0.4%	0.4%	0.4%	0.3%	0.1%	0.0%	0.1%	0.0%	0.2%	0.1%	0.1%	0.1%	0.0%	0.1%	0.1%	0.2%
TSO Dispatch Down:																	
TSO Constraints	52.5%	57.6%	68.8%	57.5%	89.8%	24.7%	74.4%	65.5%	87.3%	71.5%	26.0%	51.0%	66.8%	26.1%	16.1%	29.3%	50.1%
Curtailments	47.5%	42.4%	31.2%	42.5%	10.2%	75.3%	25.5%	34.5%	12.7%	28.5%	74.0%	48.9%	33.1%	73.8%	83.9%	70.7%	49.9%
TSO Testing	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%	0.0%	0.0%	0.0%
Curtailments:																	
SNSP Issue	26.1%	41.9%	38.9%	33.5%	0.0%	83.3%	0.0%	60.3%	0.0%	18.6%	31.2%	27.4%	38.5%	0.0%	24.7%	22.4%	29.6%
ROCOF / Inertia	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	1.3%	1.0%	0.4%	0.0%	0.0%	0.0%	0.4%
High Freq / Min Gen	73.9%	58.1%	61.1%	66.5%	100.0%	16.7%	100.0%	39.7%	100.0%	81.2%	67.5%	71.6%	61.0%	100.0%	75.3%	77.5%	70.1%

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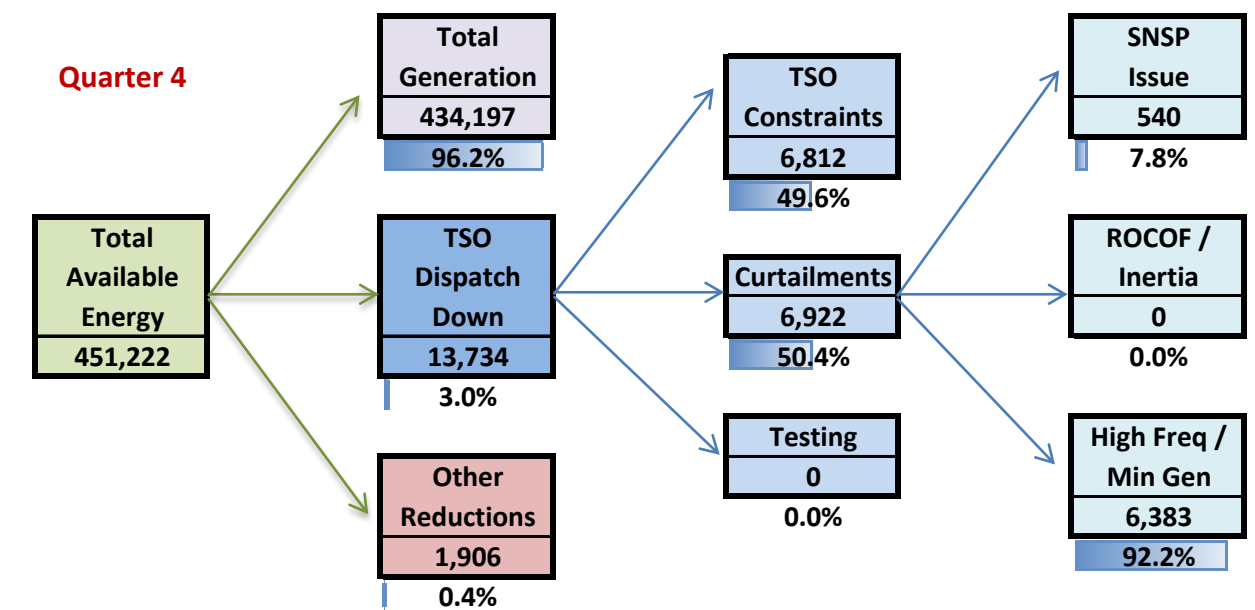
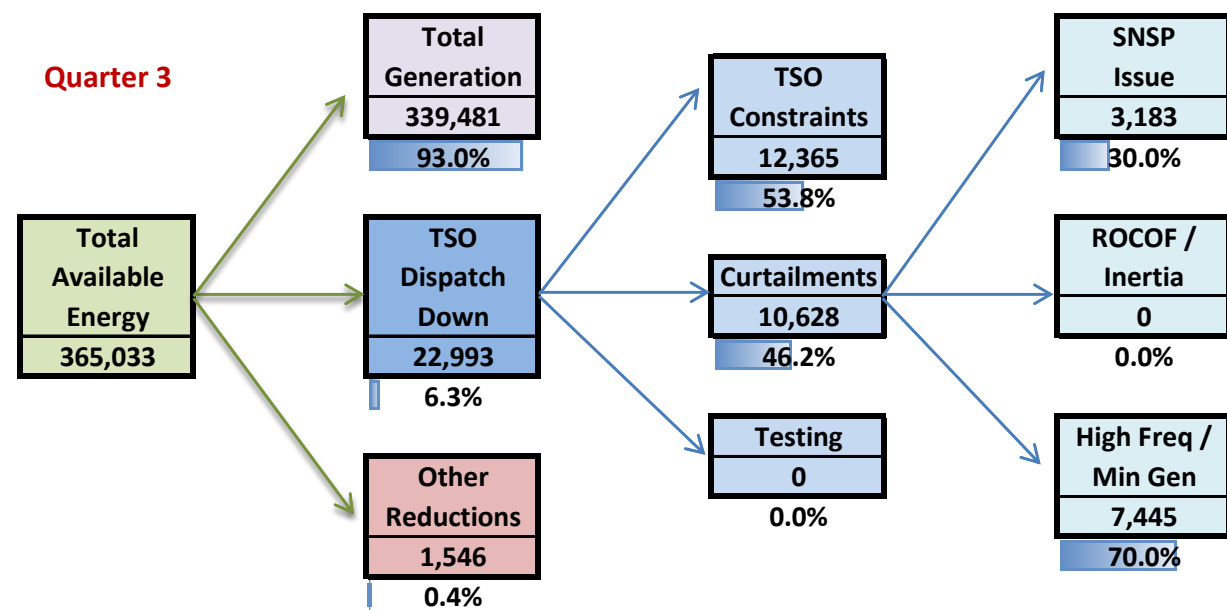
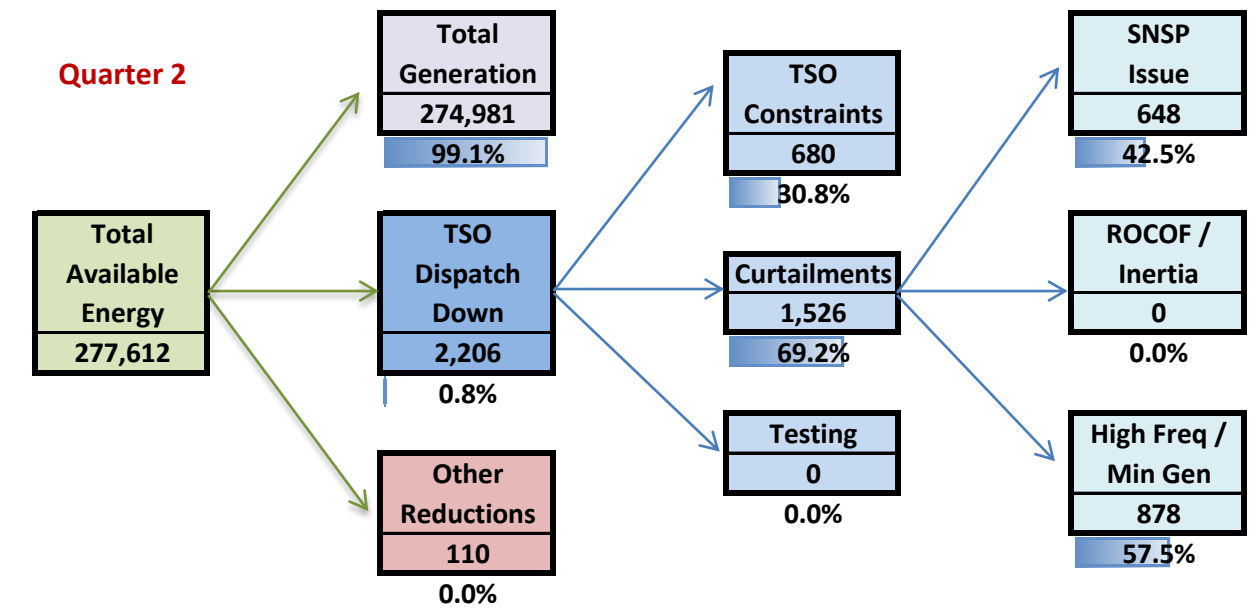
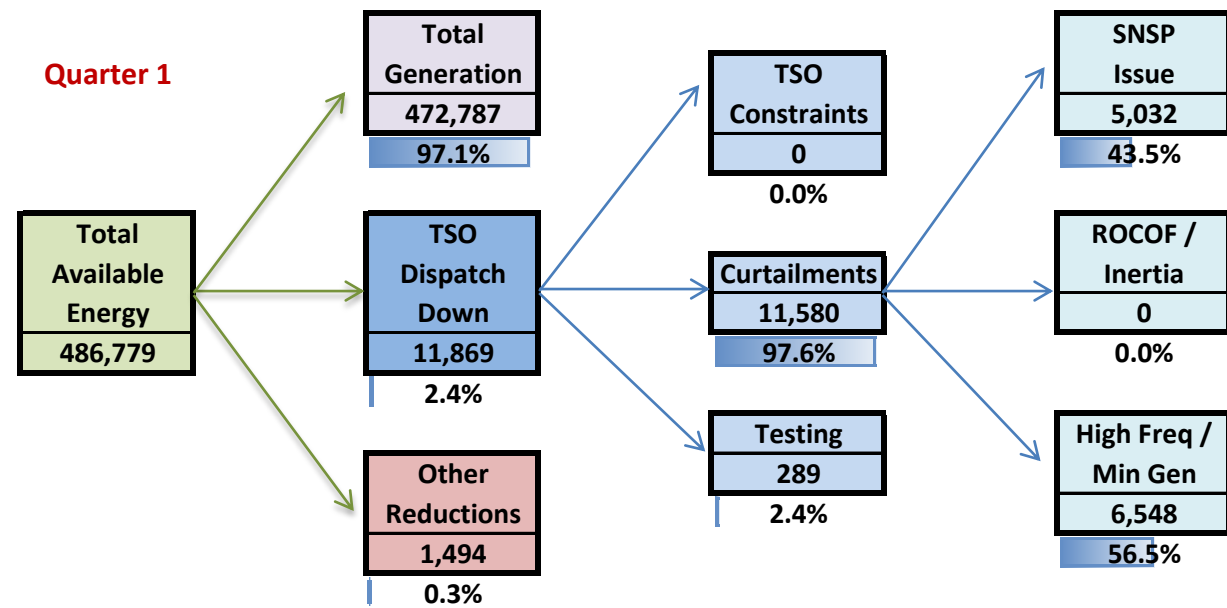
Volumes (MWh)	Jan	Feb	Mar	Qtr1	Apr	May	Jun	Qtr2	Jul	Aug	Sep	Qtr3	Oct	Nov	Dec	Qtr4	2016
Available Energy	199,812	166,897	120,070	486,779	115,667	99,013	62,932	277,612	85,250	130,283	149,500	365,033	118,478	115,941	216,803	451,222	1,580,646
Generation	192,104	162,252	118,430	472,787	114,689	97,673	62,619	274,981	79,519	120,334	139,628	339,481	115,366	111,261	207,571	434,197	1,521,446
TSO Dispatch Down	6,889	3,887	1,094	11,869	880	1,125	201	2,206	5,311	9,061	8,621	22,993	2,250	3,142	8,343	13,734	50,803
Other Reductions	459	585	450	1,494	46	10	54	110	198	532	816	1,546	383	897	625	1,906	5,056
TSO Dispatch Down:																	
TSO Constraints	-	-	-	-	680	0	-	680	4,205	6,803	1,357	12,365	1,706	2,298	2,807	6,812	19,856
Curtailments	6,868	3,647	1,065	11,580	200	1,125	201	1,526	1,106	2,257	7,265	10,628	544	843	5,536	6,922	30,657
TSO Testing	21	239	29	289	-	-	-	-	-	-	-	-	0	-	-	0	289
Curtailments:																	
SNSP Issue	2,216	2,398	418	5,032	-	648	-	648	-	1,138	2,045	3,183	-	-	540	540	9,403
ROCOF / Inertia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
High Freq / Min Gen	4,651	1,250	647	6,548	200	477	201	878	1,106	1,119	5,220	7,445	544	843	4,996	6,383	21,254

Percentages	Jan	Feb	Mar	Qtr1	Apr	May	Jun	Qtr2	Jul	Aug	Sep	Qtr3	Oct	Nov	Dec	Qtr4	2016
Generation	96.1%	97.2%	98.6%	97.1%	99.2%	98.6%	99.5%	99.1%	93.3%	92.4%	93.4%	93.0%	97.4%	96.0%	95.7%	96.2%	96.3%
TSO Dispatch Down	3.4%	2.3%	0.9%	2.4%	0.8%	1.1%	0.3%	0.8%	6.2%	7.0%	5.8%	6.3%	1.9%	2.7%	3.8%	3.0%	3.2%
Other Reductions	0.2%	0.4%	0.4%	0.3%	0.0%	0.0%	0.1%	0.0%	0.2%	0.4%	0.5%	0.4%	0.3%	0.8%	0.3%	0.4%	0.3%
TSO Dispatch Down:																	
TSO Constraints	0.0%	0.0%	0.0%	0.0%	77.2%	0.0%	0.0%	30.8%	79.2%	75.1%	15.7%	53.8%	75.8%	73.2%	33.6%	49.6%	39.1%
Curtailments	99.7%	93.8%	97.4%	97.6%	22.8%	100.0%	100.0%	69.2%	20.8%	24.9%	84.3%	46.2%	24.2%	26.8%	66.4%	50.4%	60.3%
TSO Testing	0.3%	6.2%	2.6%	2.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.6%
Curtailments:																	
SNSP Issue	32.3%	65.7%	39.3%	43.5%	0.0%	57.6%	0.0%	42.5%	0.0%	50.4%	28.1%	30.0%	0.0%	0.0%	9.8%	7.8%	30.7%
ROCOF / Inertia	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
High Freq / Min Gen	67.7%	34.3%	60.7%	56.5%	100.0%	42.4%	100.0%	57.5%	100.0%	49.6%	71.9%	70.0%	100.0%	100.0%	90.2%	92.2%	69.3%

User Guide Available at: <http://www.eirgridgroup.com/how-the-grid-works/renewables/>

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Graphical Representation of the Breakdown of Wind Dispatch Down Energy Volumes (MWh) and Percentages (%)



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