

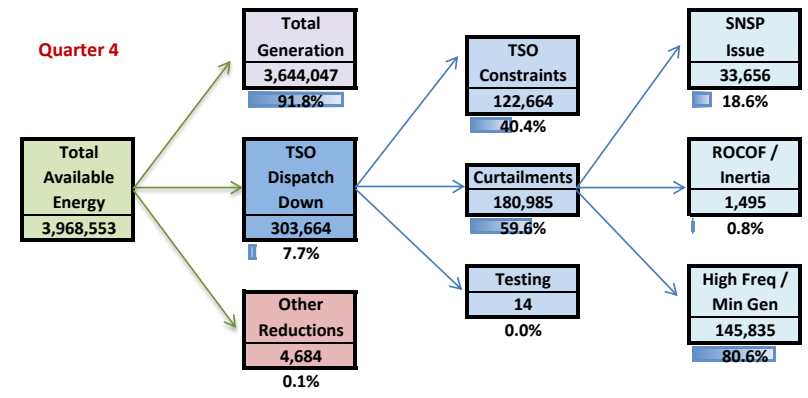
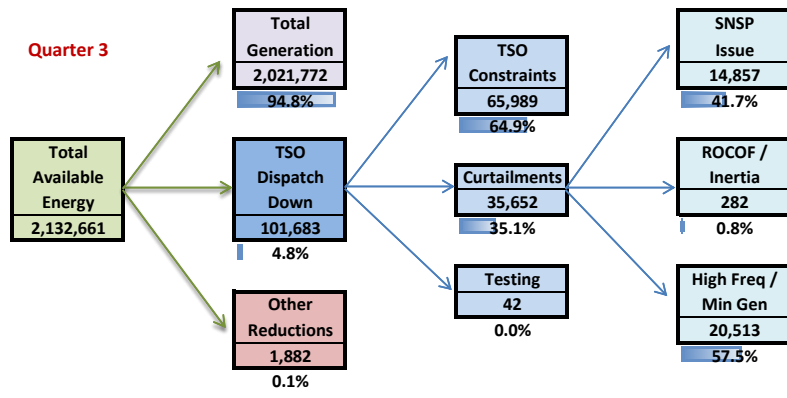
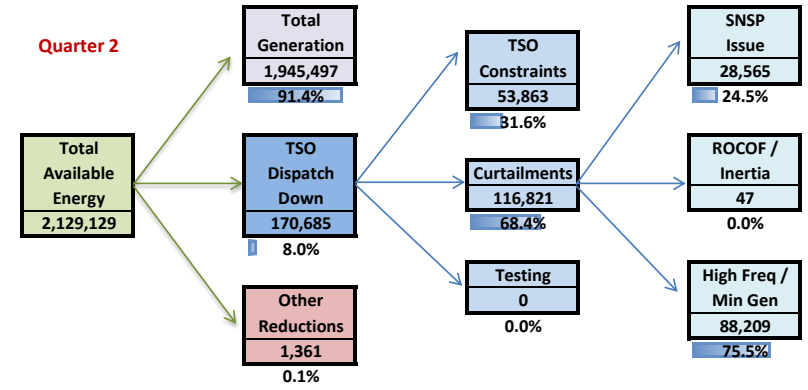
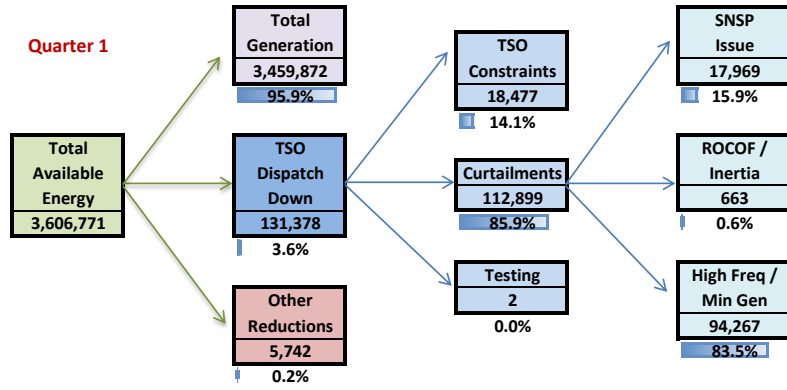
Volumes (MWh)	Jan	Feb	Mar	Qtr1	Apr	May	Jun	Qtr2	Jul	Aug	Sep	Qtr3	Oct	Nov	Dec	Qtr4	2018
Available Energy	1,490,190	1,073,431	1,043,149	3,606,771	982,486	688,780	457,863	2,129,129	441,170	742,929	948,562	2,132,661	1,094,519	1,480,028	1,394,005	3,968,553	11,837,113
Generation	1,423,116	1,046,496	990,259	3,459,872	879,237	652,498	413,762	1,945,497	431,240	718,012	872,519	2,021,772	1,002,656	1,378,292	1,263,099	3,644,047	11,071,187
TSO Dispatch Down	58,539	23,379	49,460	131,378	97,123	34,250	39,311	170,685	8,688	22,637	70,359	101,683	84,551	94,733	124,380	303,664	707,410
Other Reductions	3,960	1,492	290	5,742	817	108	436	1,361	425	380	1,077	1,882	3,222	796	665	4,684	13,668
TSO Dispatch Down:																	
TSO Constraints	11,003	3,142	4,332	18,477	9,879	16,519	27,465	53,863	4,781	18,765	42,444	65,989	46,586	36,863	39,216	122,664	260,994
Curtailments	47,534	20,237	45,128	112,899	87,244	17,731	11,846	116,821	3,907	3,872	27,873	35,652	37,965	57,870	85,150	180,985	446,358
TSO Testing	2	-	-	2	-	-	-	-	-	0	42	42	0	0	14	14	59
Curtailments:																	
SNSP Issue	8,391	2,165	7,413	17,969	28,564	2	-	28,565	-	335	14,521	14,857	579	8,514	24,562	33,656	95,047
ROCOF / Inertia	1	550	112	663	47	-	-	47	59	89	134	282	209	-	1,286	1,495	2,487
High Freq / Min Gen	39,142	17,522	37,602	94,267	58,633	17,729	11,846	88,209	3,848	3,448	13,218	20,513	37,176	49,356	59,302	145,835	348,823

Percentages	Jan	Feb	Mar	Qtr1	Apr	May	Jun	Qtr2	Jul	Aug	Sep	Qtr3	Oct	Nov	Dec	Qtr4	2018
Generation	95.5%	97.5%	94.9%	95.9%	89.5%	94.7%	90.4%	91.4%	97.7%	96.6%	92.0%	94.8%	91.6%	93.1%	90.6%	91.8%	93.5%
TSO Dispatch Down	3.9%	2.2%	4.7%	3.6%	9.9%	5.0%	8.6%	8.0%	2.0%	3.0%	7.4%	4.8%	7.7%	6.4%	8.9%	7.7%	6.0%
Other Reductions	0.3%	0.1%	0.0%	0.2%	0.1%	0.0%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.3%	0.1%	0.0%	0.1%	0.1%
TSO Dispatch Down:																	
TSO Constraints	18.8%	13.4%	8.8%	14.1%	10.2%	48.2%	69.9%	31.6%	55.0%	82.9%	60.3%	64.9%	55.1%	38.9%	31.5%	40.4%	36.9%
Curtailments	81.2%	86.6%	91.2%	85.9%	89.8%	51.8%	30.1%	68.4%	45.0%	17.1%	39.6%	35.1%	44.9%	61.1%	68.5%	59.6%	63.1%
TSO Testing	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Curtailments:																	
SNSP Issue	17.7%	10.7%	16.4%	15.9%	32.7%	0.0%	0.0%	24.5%	0.0%	8.7%	52.1%	41.7%	1.5%	14.7%	28.8%	18.6%	21.3%
ROCOF / Inertia	0.0%	2.7%	0.2%	0.6%	0.1%	0.0%	0.0%	0.0%	1.5%	2.3%	0.5%	0.8%	0.6%	0.0%	1.5%	0.8%	0.6%
High Freq / Min Gen	82.3%	86.6%	83.3%	83.5%	67.2%	100.0%	100.0%	75.5%	98.5%	89.0%	47.4%	57.5%	97.9%	85.3%	69.6%	80.6%	78.1%

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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 (Constraint and Curtailment) Percentages for Ireland (IE), Northern Ireland (NI) and All Island (AI)

Month	2011			2012			2013			2014			2015			2016			2017			2018		
	NI	IE	AI	NI	IE	AI	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%	2.4%	1.9%	2.0%	5.7%	3.5%	3.9%
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%	2.0%	1.7%	1.7%	2.9%	2.0%	2.2%
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%	3.0%	3.4%	3.3%	5.9%	4.4%	4.7%
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%	2.4%	2.3%	2.4%	4.9%	3.3%	3.6%
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%	4.2%	3.5%	3.6%	19.2%	7.4%	9.8%
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%	3.6%	3.5%	3.5%	6.1%	4.7%	5.0%
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%	4.7%	3.9%	4.1%	11.0%	8.0%	8.6%
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%	4.2%	3.7%	3.8%	13.0%	6.6%	8.0%
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%	4.4%	2.8%	3.2%	2.1%	1.9%	2.0%
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%	3.1%	2.8%	2.9%	5.8%	2.2%	3.0%
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%	4.2%	5.4%	5.1%	13.1%	5.5%	7.4%
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%	3.9%	3.9%	3.9%	8.7%	3.6%	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%	14.6%	9.2%	10.6%	10.2%	6.9%	7.7%
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%	3.2%	2.5%	2.6%	10.2%	5.2%	6.4%
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%	5.3%	2.5%	3.1%	14.9%	7.2%	8.9%
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%	8.5%	4.9%	5.7%	11.7%	6.4%	7.7%
Year Total DD	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%	5.0%	3.7%	4.0%	9.4%	5.0%	6.0%
Constraints	0.3%	0.5%	0.4%	0.3%	0.9%	0.8%	0.5%	1.0%	0.9%	1.0%	1.5%	1.4%	1.9%	1.8%	1.8%	1.3%	1.4%	1.4%	1.9%	1.0%	1.2%	4.0%	1.7%	2.2%
Curtailments	1.1%	2.0%	1.8%	0.4%	1.5%	1.3%	1.3%	2.5%	2.3%	1.8%	2.9%	2.6%	3.4%	3.3%	3.3%	1.9%	1.4%	1.5%	3.1%	2.6%	2.7%	5.4%	3.3%	3.8%
Wind Installed Capacity (MW)	512	1,585	2,097	600	1,703	2,303	640	1,923	2,563	729	2,266	2,996	751	2,447	3,198	943	2,779	3,722	1,154	3,314	4,467	1,276	3,666	4,942
Wind Generation (GWh)	943	4,256	5,198	1,020	4,102	5,122	1,259	4,642	5,901	1,453	5,116	6,568	1,803	6,537	8,339	1,725	6,115	7,840	2,051	7,229	9,280	2,391	8,685	11,076
Wind Capacity Factors	21%	31%	28%	21%	28%	27%	23%	29%	28%	24%	28%	27%	28%	32%	31%	23%	27%	26%	22%	27%	26%	22%	28%	27%
SNSP Limit	50%			50%			50%			50%			55% Trial from Oct			55% Perm from Mar 60% Trial from Nov			60% Perm from Mar 65% Trial from Nov			65% Perm from Apr		

Notes:

"Dispatch Down" consists of TSO constraints, curtailments and wind testing.
 The darker shaded cells indicate higher dispatch-down percentages in order to produce a graphical representation similar to a heat map.
 A more accurate methodology for calculating wind dispatch down was implemented from 2016. Figures from previous years are best estimates.
 Wind installed capacities, generation and capacity factors are indicative and based on the latest available information.
 SNSP (System Non-Synchronous Penetration) is the sum of non-synchronous generation (such as wind, solar and HVDC imports) as a percentage of total demand and exports.
 When the SNSP limit is raised, a trial period takes place before it becomes permanent.
 During the trial period, the system is operated at this increased SNSP limit except in times of extreme system events or during system testing.
 For more information see annual and quarterly dispatch down reports.

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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	2018
NI	5.7%	2.9%	5.9%	4.9%	19.2%	6.1%	11.0%	13.0%	2.1%	5.8%	13.1%	8.7%	10.2%	10.2%	14.9%	11.7%	9.4%
M	5.5%	3.1%	5.6%	4.8%	7.6%	3.5%	3.0%	5.3%	1.6%	1.1%	4.5%	2.7%	4.4%	5.3%	6.5%	5.5%	4.8%
NE	2.3%	2.4%	5.3%	3.2%	9.5%	2.1%	1.9%	5.3%	1.0%	1.1%	4.6%	2.7%	4.6%	3.9%	6.4%	5.0%	4.1%
NW	5.7%	2.3%	6.4%	4.9%	10.6%	5.3%	13.1%	9.4%	6.8%	8.2%	15.0%	11.1%	12.6%	11.8%	14.5%	12.9%	9.4%
SE	4.2%	2.9%	5.3%	4.1%	8.8%	4.0%	2.6%	5.9%	0.9%	0.6%	5.2%	2.6%	4.4%	4.2%	6.8%	5.2%	4.5%
SW	3.2%	1.9%	4.3%	3.1%	5.6%	8.7%	15.2%	8.8%	1.8%	2.3%	4.4%	3.1%	10.1%	4.8%	8.1%	7.3%	5.6%
W	3.3%	1.9%	4.9%	3.3%	12.5%	2.3%	3.5%	7.2%	2.1%	2.2%	6.8%	4.0%	5.8%	6.8%	7.1%	6.6%	5.3%

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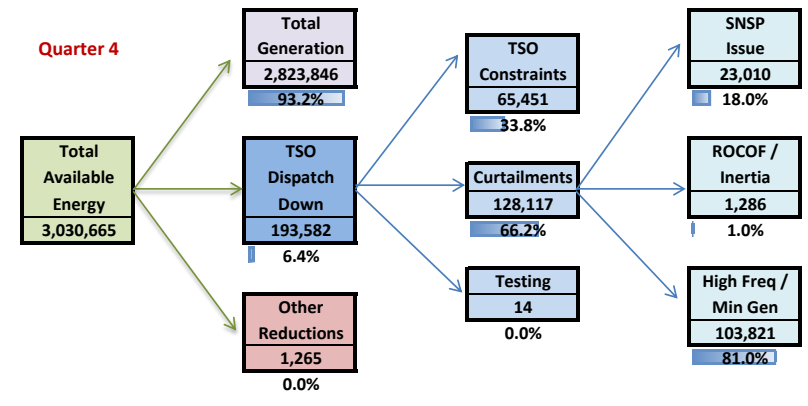
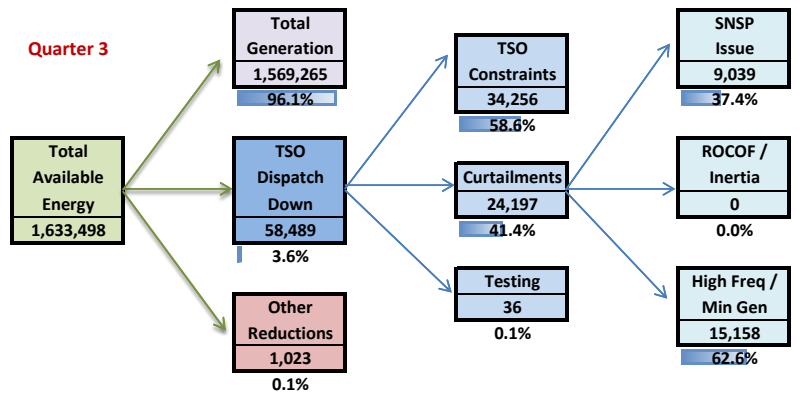
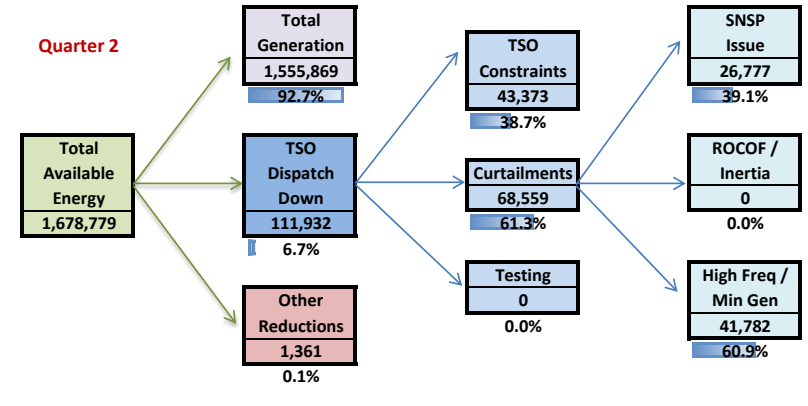
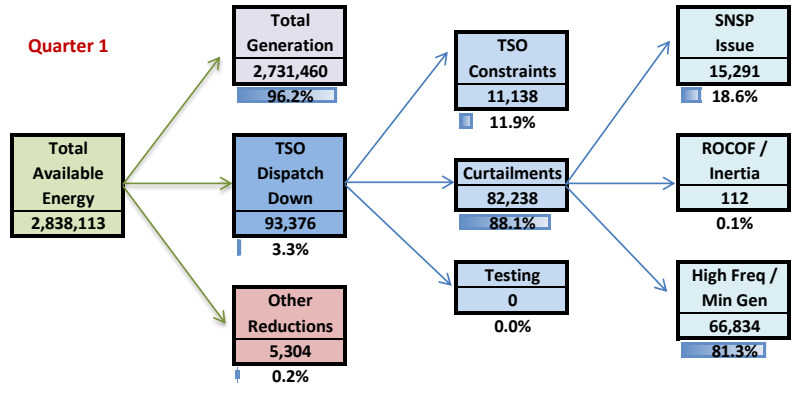
Volumes (MWh)	Jan	Feb	Mar	Qtr1	Apr	May	Jun	Qtr2	Jul	Aug	Sep	Qtr3	Oct	Nov	Dec	Qtr4	2018
Available Energy	1,175,475	854,291	808,347	2,838,113	778,765	535,941	364,073	1,678,779	349,969	576,950	706,579	1,633,498	820,718	1,124,051	1,085,897	3,030,665	9,181,056
Generation	1,127,424	834,092	769,944	2,731,460	715,881	509,379	330,608	1,555,869	342,413	562,603	664,248	1,569,265	760,478	1,060,713	1,002,655	2,823,846	8,680,439
TSO Dispatch Down	40,756	17,041	35,579	93,376	57,920	24,982	29,029	111,932	6,745	12,971	38,773	58,489	56,621	58,541	78,420	193,582	457,379
Other Reductions	3,606	1,450	249	5,304	817	108	436	1,361	107	165	751	1,023	625	323	317	1,265	8,953
TSO Dispatch Down:																	
TSO Constraints	8,274	1,328	1,536	11,138	7,553	13,087	22,733	43,373	3,512	10,001	20,742	34,256	29,780	14,389	21,282	65,451	154,218
Curtailments	32,482	15,713	34,043	82,238	50,367	11,895	6,296	68,559	3,233	2,970	17,994	24,197	26,841	44,152	57,124	128,117	303,110
TSO Testing	-	-	-	-	-	-	-	-	-	0	36	36	-	0	14	14	51
Curtailments:																	
SNSP Issue	6,544	1,480	7,268	15,291	26,775	2	-	26,777	-	198	8,841	9,039	273	5,558	17,179	23,010	74,117
ROCOF / Inertia	-	-	112	112	-	-	-	-	-	-	-	-	-	-	1,286	1,286	1,398
High Freq / Min Gen	25,938	14,234	26,662	66,834	23,592	11,894	6,296	41,782	3,233	2,772	9,154	15,158	26,568	38,594	38,659	103,821	227,595

Percentages	Jan	Feb	Mar	Qtr1	Apr	May	Jun	Qtr2	Jul	Aug	Sep	Qtr3	Oct	Nov	Dec	Qtr4	2018
Generation	95.9%	97.6%	95.2%	96.2%	91.9%	95.0%	90.8%	92.7%	97.8%	97.5%	94.0%	96.1%	92.7%	94.4%	92.3%	93.2%	94.5%
TSO Dispatch Down	3.5%	2.0%	4.4%	3.3%	7.4%	4.7%	8.0%	6.7%	1.9%	2.2%	5.5%	3.6%	6.9%	5.2%	7.2%	6.4%	5.0%
Other Reductions	0.3%	0.2%	0.0%	0.2%	0.1%	0.0%	0.1%	0.1%	0.0%	0.0%	0.1%	0.1%	0.1%	0.0%	0.0%	0.0%	0.1%
TSO Dispatch Down:																	
TSO Constraints	20.3%	7.8%	4.3%	11.9%	13.0%	52.4%	78.3%	38.7%	52.1%	77.1%	53.5%	58.6%	52.6%	24.6%	27.1%	33.8%	33.7%
Curtailments	79.7%	92.2%	95.7%	88.1%	87.0%	47.6%	21.7%	61.3%	47.9%	22.9%	46.4%	41.4%	47.4%	75.4%	72.8%	66.2%	66.3%
TSO Testing	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%
Curtailments:																	
SNSP Issue	20.1%	9.4%	21.3%	18.6%	53.2%	0.0%	0.0%	39.1%	0.0%	6.7%	49.1%	37.4%	1.0%	12.6%	30.1%	18.0%	24.5%
ROCOF / Inertia	0.0%	0.0%	0.3%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.3%	1.0%	0.5%
High Freq / Min Gen	79.9%	90.6%	78.3%	81.3%	46.8%	100.0%	100.0%	60.9%	100.0%	93.3%	50.9%	62.6%	99.0%	87.4%	67.7%	81.0%	75.1%

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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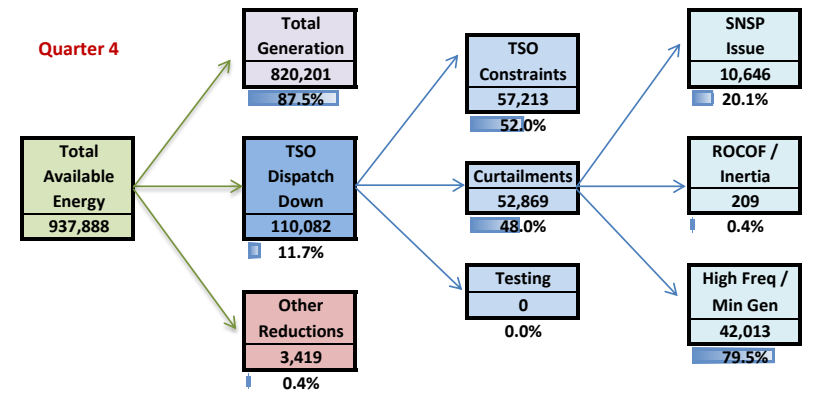
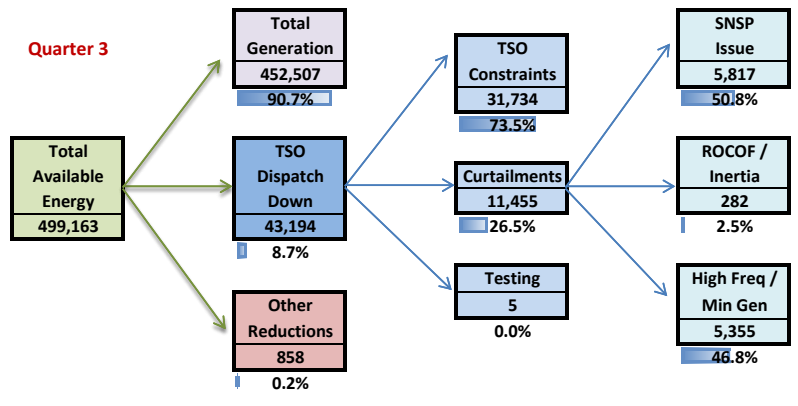
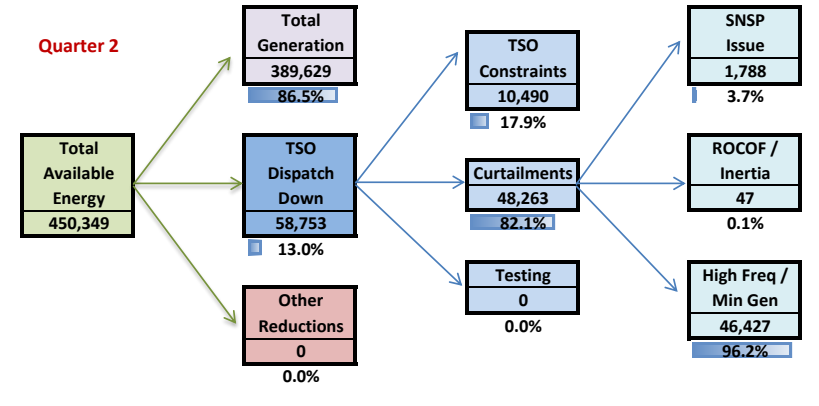
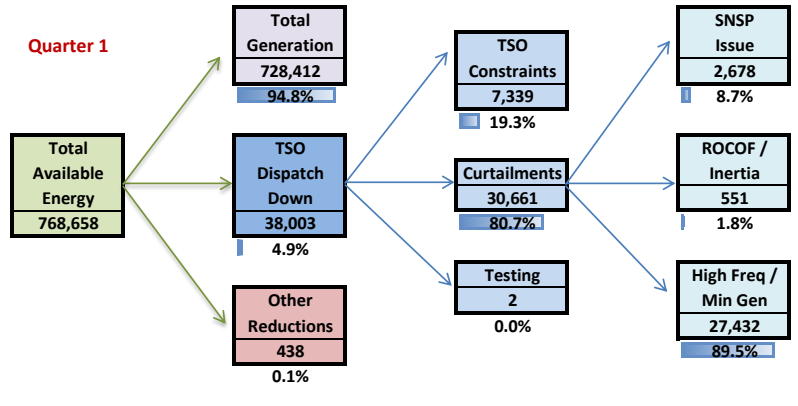
Volumes (MWh)	Jan	Feb	Mar	Qtr1	Apr	May	Jun	Qtr2	Jul	Aug	Sep	Qtr3	Oct	Nov	Dec	Qtr4	2018
Available Energy	314,716	219,140	234,802	768,658	203,721	152,839	93,789	450,349	91,201	165,979	241,983	499,163	273,802	355,977	308,109	937,888	2,656,057
Generation	295,693	212,404	220,315	728,412	163,356	143,119	83,153	389,629	88,827	155,409	208,271	452,507	242,178	317,579	260,444	820,201	2,390,748
TSO Dispatch Down	17,784	6,338	13,881	38,003	39,203	9,268	10,282	58,753	1,943	9,666	31,586	43,194	27,929	36,193	45,960	110,082	250,032
Other Reductions	354	43	41	438	-	-	-	-	317	215	326	858	2,598	473	348	3,419	4,715
TSO Dispatch Down:																	
TSO Constraints	2,729	1,814	2,796	7,339	2,326	3,432	4,732	10,490	1,269	8,764	21,702	31,734	16,806	22,474	17,934	57,213	106,776
Curtailments	15,053	4,523	11,085	30,661	36,877	5,836	5,550	48,263	674	902	9,879	11,455	11,124	13,719	28,026	52,869	143,247
TSO Testing	2	-	-	2	-	-	-	-	-	-	5	5	0	-	-	0	8
Curtailments:																	
SNSP Issue	1,848	685	145	2,678	1,788	0	-	1,788	-	137	5,681	5,817	306	2,957	7,383	10,646	20,930
ROCOF / Inertia	1	550	-	551	47	-	-	47	59	89	134	282	209	-	-	209	1,089
High Freq / Min Gen	13,204	3,289	10,940	27,432	35,042	5,836	5,550	46,427	615	676	4,064	5,355	10,608	10,762	20,643	42,013	121,228

Percentages	Jan	Feb	Mar	Qtr1	Apr	May	Jun	Qtr2	Jul	Aug	Sep	Qtr3	Oct	Nov	Dec	Qtr4	2018
Generation	94.0%	96.9%	93.8%	94.8%	80.2%	93.6%	88.7%	86.5%	97.4%	93.6%	86.1%	90.7%	88.5%	89.2%	84.5%	87.5%	90.0%
TSO Dispatch Down	5.7%	2.9%	5.9%	4.9%	19.2%	6.1%	11.0%	13.0%	2.1%	5.8%	13.1%	8.7%	10.2%	10.2%	14.9%	11.7%	9.4%
Other Reductions	0.1%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.3%	0.1%	0.1%	0.2%	0.9%	0.1%	0.1%	0.4%	0.2%
TSO Dispatch Down:																	
TSO Constraints	15.3%	28.6%	20.1%	19.3%	5.9%	37.0%	46.0%	17.9%	65.3%	90.7%	68.7%	73.5%	60.2%	62.1%	39.0%	52.0%	42.7%
Curtailments	84.6%	71.4%	79.9%	80.7%	94.1%	63.0%	54.0%	82.1%	34.7%	9.3%	31.3%	26.5%	39.8%	37.9%	61.0%	48.0%	57.3%
TSO Testing	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%
Curtailments:																	
SNSP Issue	12.3%	15.1%	1.3%	8.7%	4.8%	0.0%	0.0%	3.7%	0.0%	15.2%	57.5%	50.8%	2.7%	21.6%	26.3%	20.1%	14.6%
ROCOF / Inertia	0.0%	12.2%	0.0%	1.8%	0.1%	0.0%	0.0%	0.1%	8.8%	9.8%	1.4%	2.5%	1.9%	0.0%	0.0%	0.4%	0.8%
High Freq / Min Gen	87.7%	72.7%	98.7%	89.5%	95.0%	100.0%	100.0%	96.2%	91.2%	75.0%	41.1%	46.8%	95.4%	78.4%	73.7%	79.5%	84.6%

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