Generation Report

March, 2016

PUBLIC UTILITIES COMMISSION OF SRI LANKA

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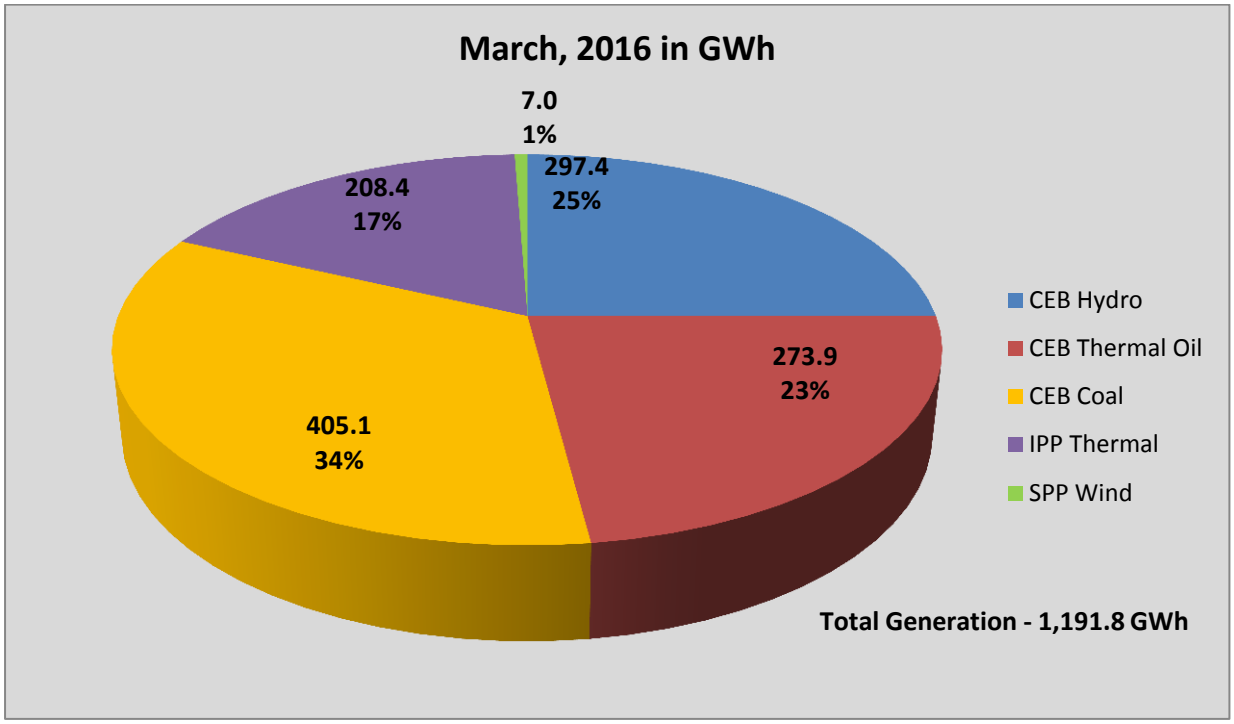
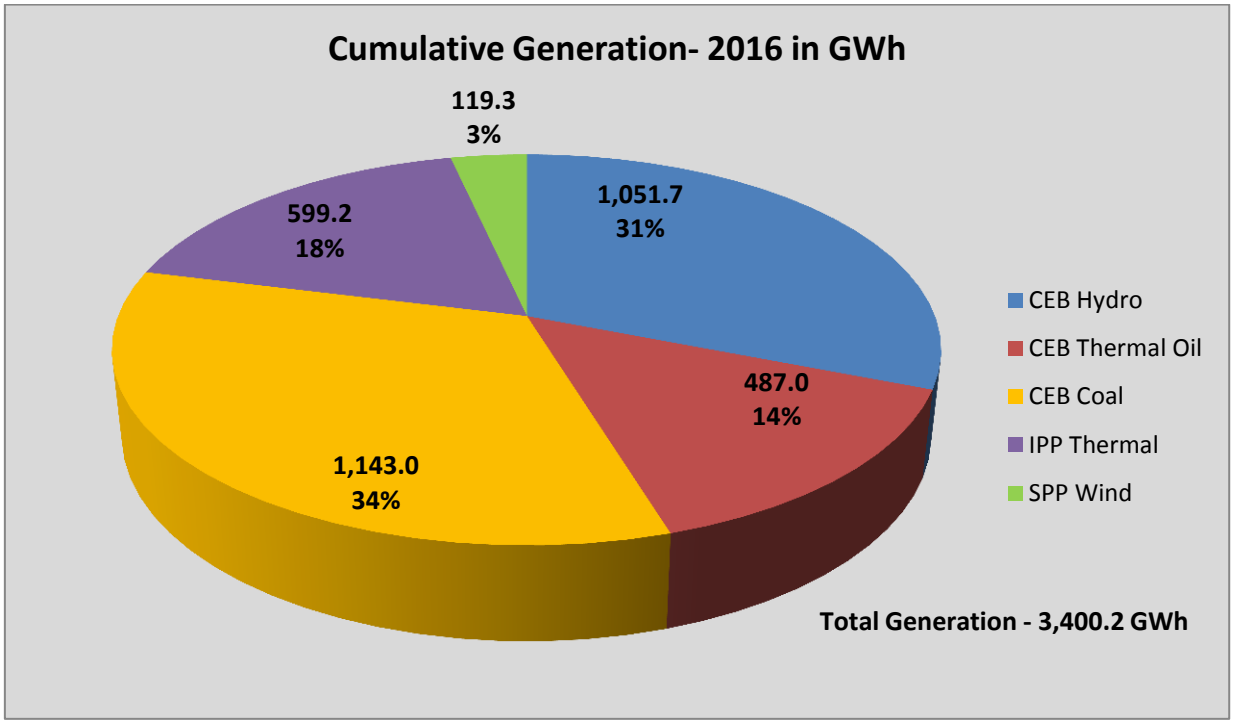
Generation Mix



Note: *Generation from Mini Hydro, Solar and Biomass power plants is not included*

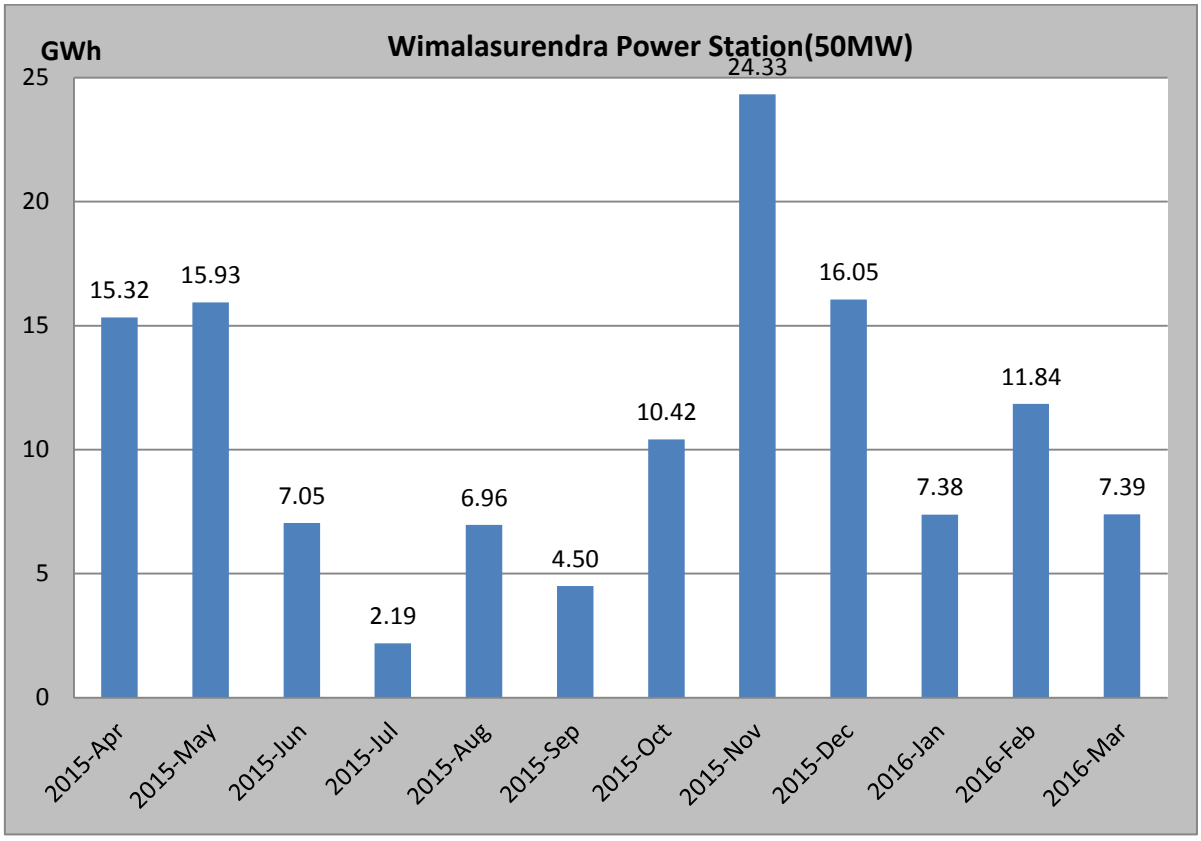


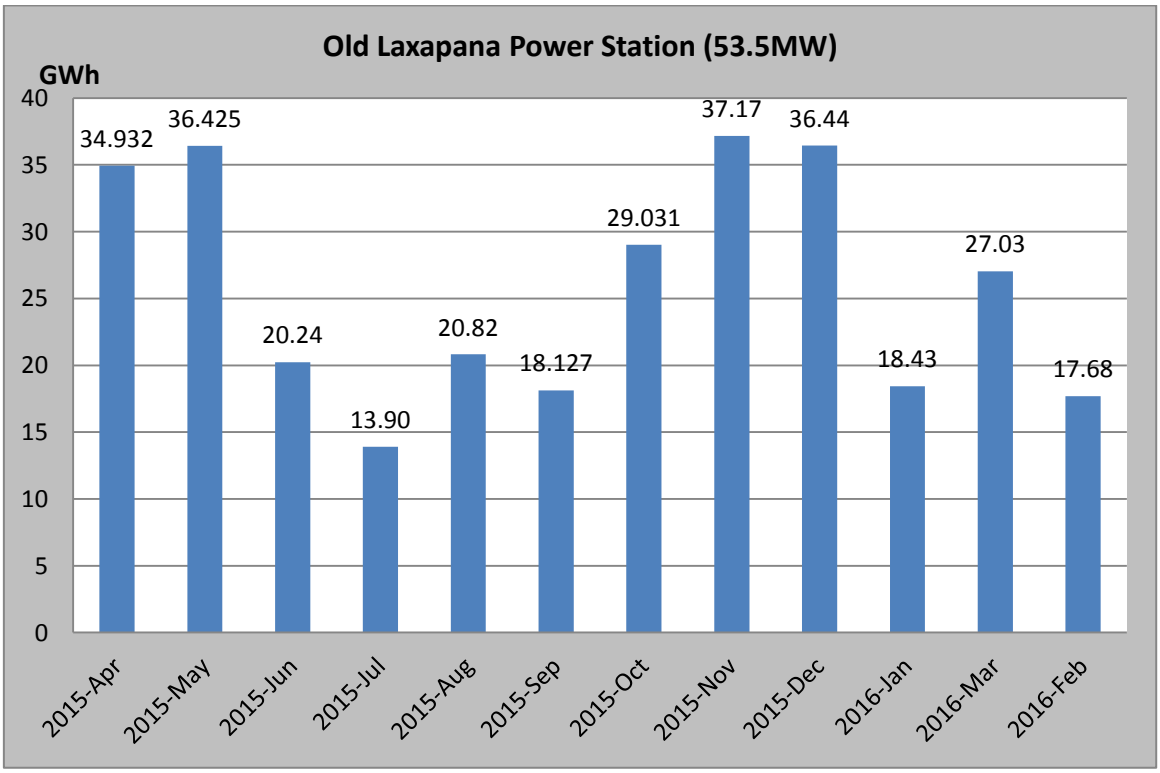
Note: *Generation from Mini Hydro, Solar and Biomass power plants during February and March is not included*

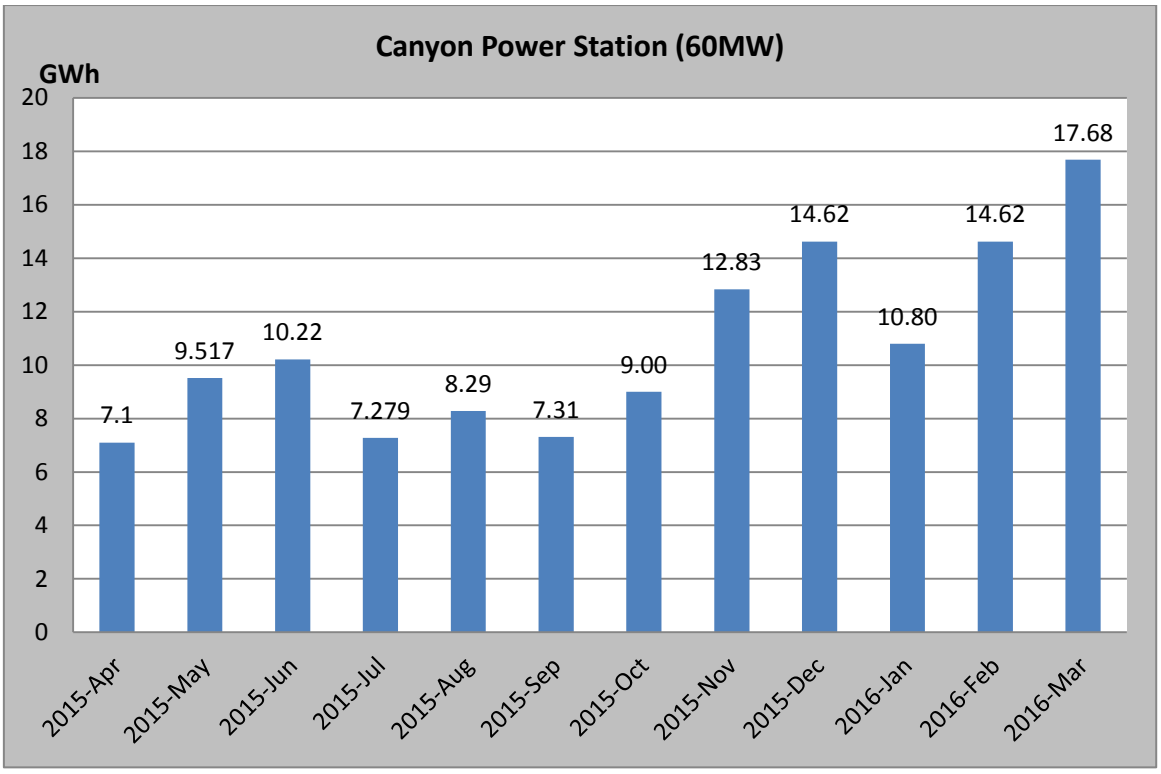
Monthly Dispatch from all Generation Units (March 2016)

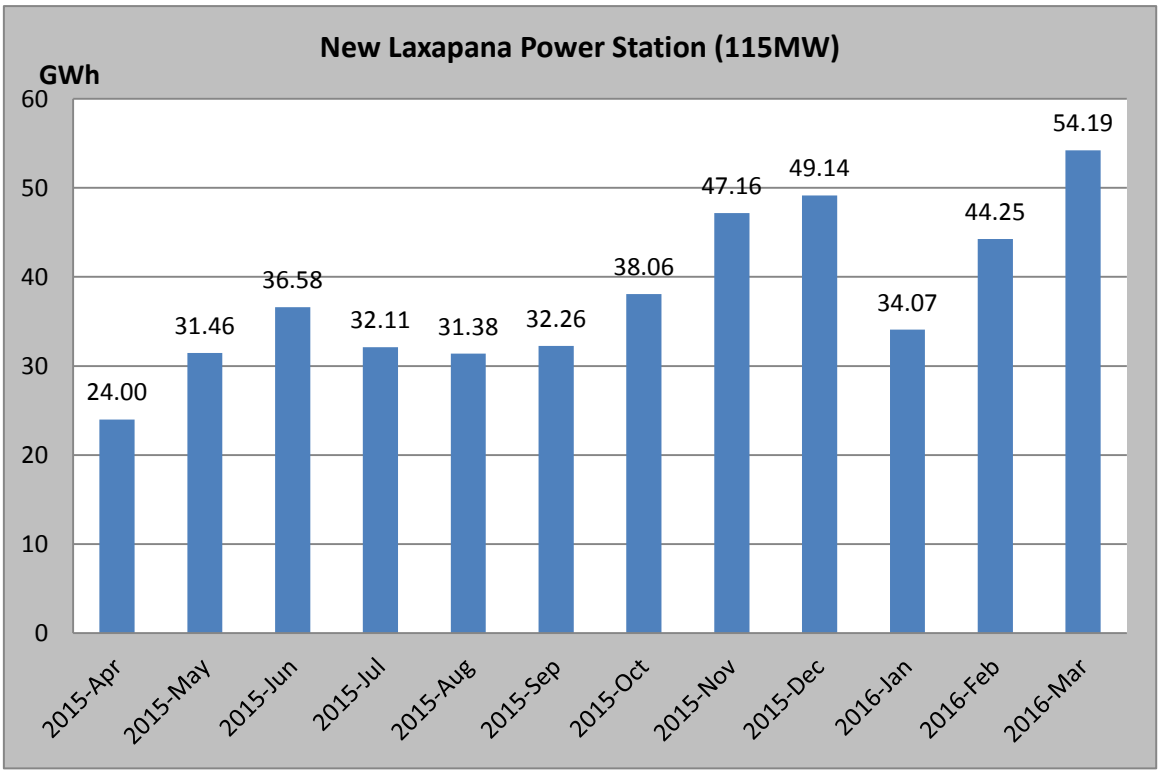
Power Station	Capacity (MW)	Generation (MWh)	Plant factor (%)
Wimalasurendra	50	7,388	19.9%
Old Laxapana	53.5	17,678	44.4%
Canyon	60	17,681	39.6%
New Laxapana	116	54,186	62.8%
Polpitiya	75	32,156	57.6%
Kotmale	201	15,600	10.4%
Victoria	210	49,472	31.7%
Randenigala	122	18,661	20.6%
Rantambe	49	8,085	22.2%
Ukuwela	40	9,174	30.8%
Bowatenna	40	2,289	7.7%
Upper Kotmale	150	8,765	7.9%
Samanalawewa	120	49,382	55.3%
Kukule	70	5,331	10.2%
Inginiyagala	11.25	861	10.3%
Udawalawe	6	523	11.7%
Nilambe	3.2	157	6.6%
Puttalam Coal I	285	61,945	29.2%
Puttalam Coal II	285	168,027	79.2%
Puttalam Coal III	285	175,094	82.6%
Uthura Janani	26.01	11,259	58.2%
Sapugaskanda B	69.6	49,480	95.6%
Sapugaskanda A	69.6	36,445	70.4%
Barge CEB	60	41,583	93.2%
KCCP	161	72,124	60.2%
KPS GT 7	113	56,623	67.4%
KPS Small GTs	65.2	6,376	13.1%
Asia Power	50.8	18,182	48.1%
Northern Power	30	-	0.0%
Westcoast	270	110,425	55.0%
AES - Kelanitissa	163	79,755	65.8%

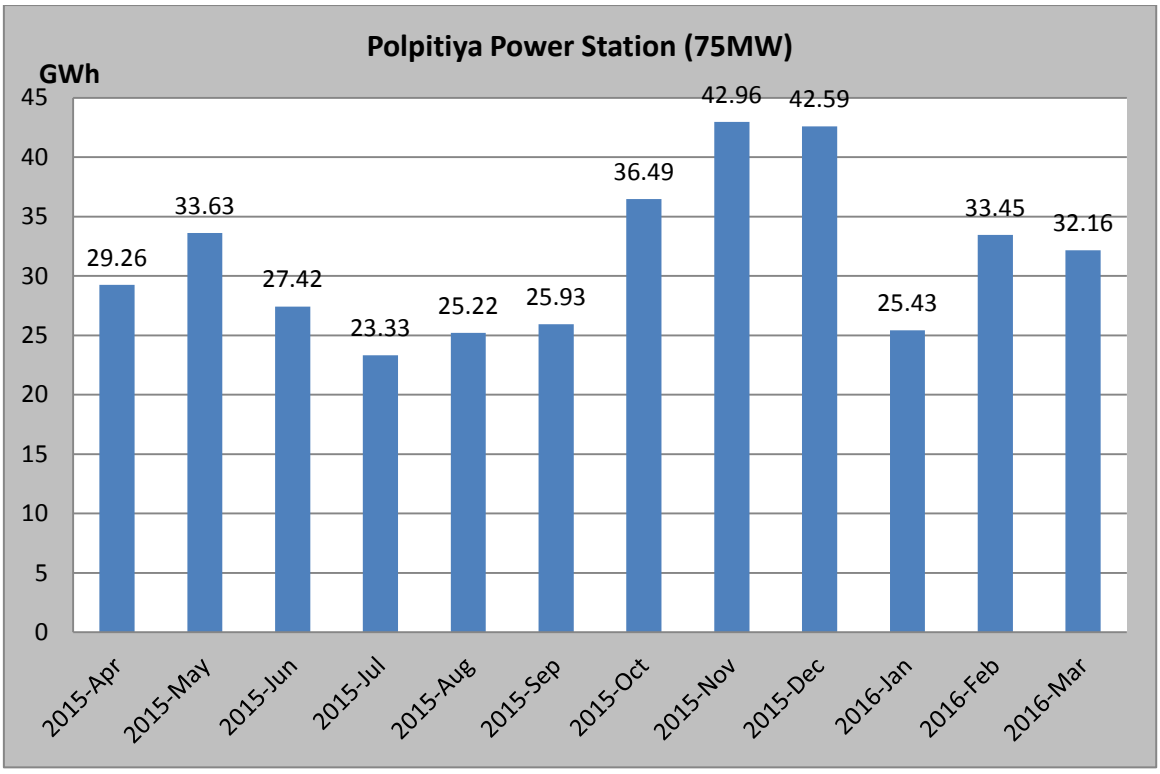
Generation of Power Plants During last 12 months

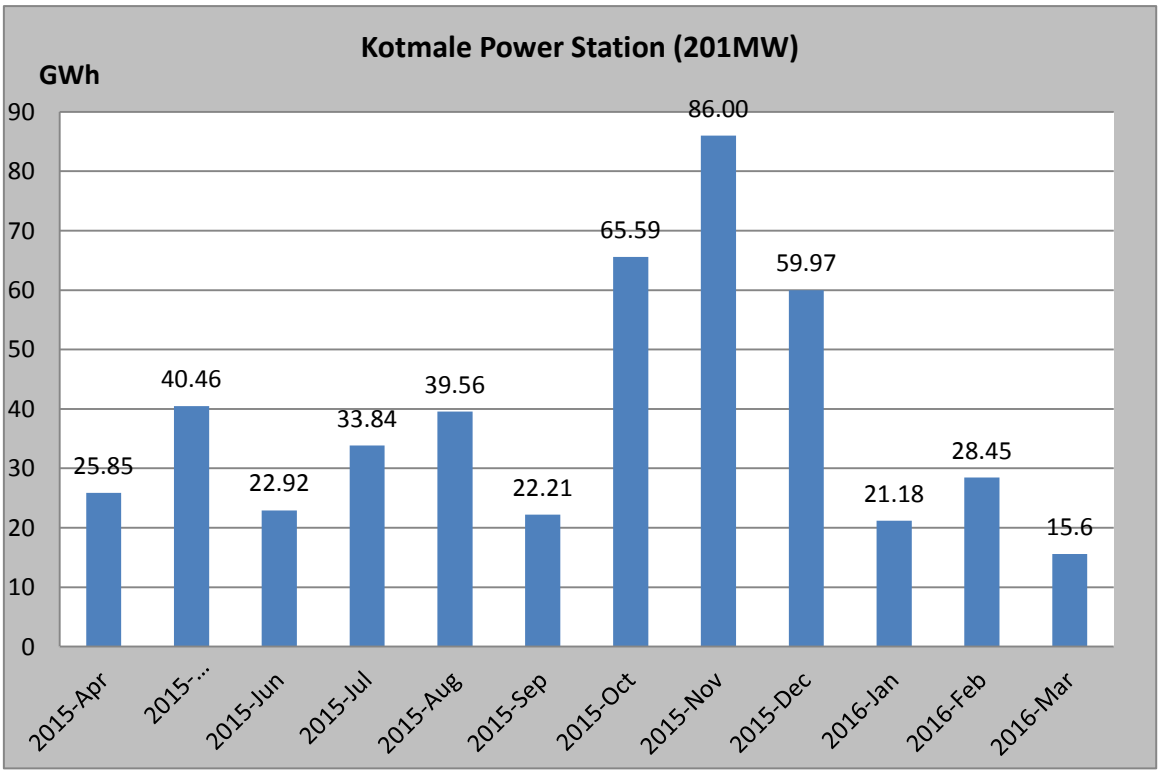


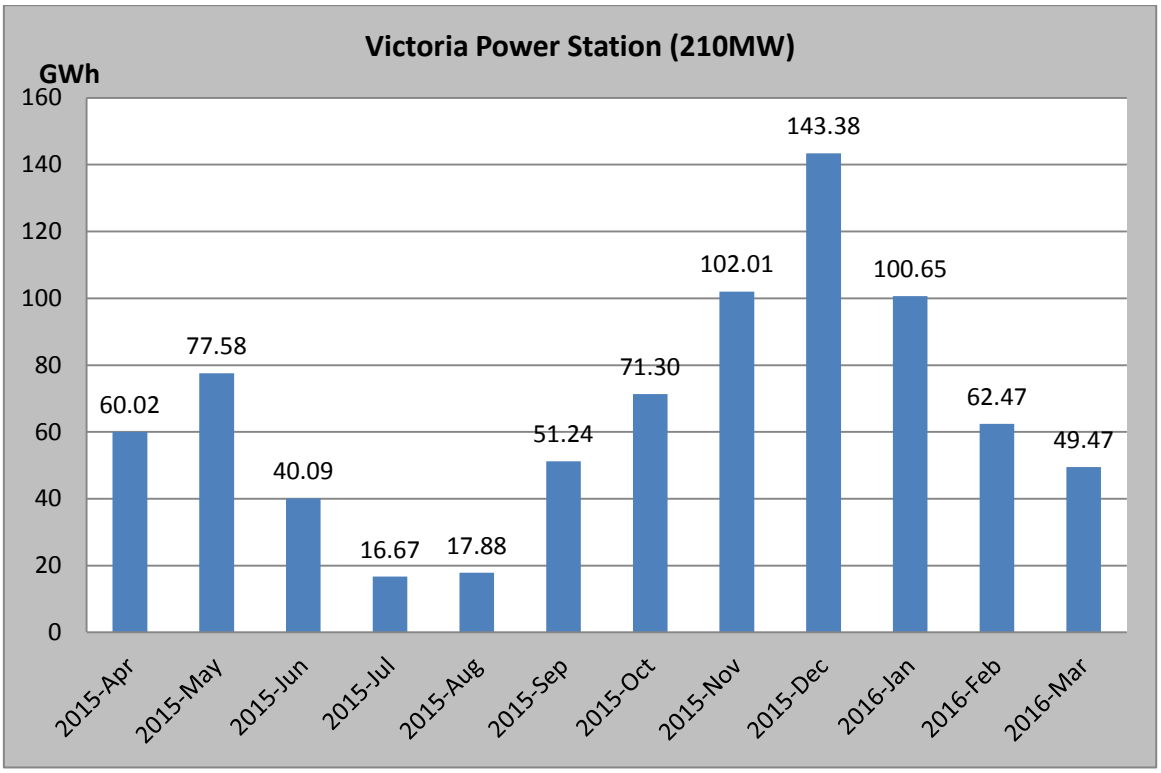



Canyon Power Station (60MW)
GWh
20
18
16
14
12
10
8
6
4
2
0
7.1
9.517
10.22
7.279
8.29
7.31
9.00
12.83
14.62
10.80
14.62
17.68
2015-Apr
2015-May
2015-Jun
2015-Jul
2015-Aug
2015-Sep
2015-Oct
2015-Nov
2015-Dec
2016-Jan
2016-Feb
2016-Mar


New Laxapana Power Station (115MW)
GWh
60
50
40
30
20
10
0
24.00
31.46
36.58
32.11
31.38
32.26
38.06
47.16
49.14
34.07
44.25
54.19
2015-Apr
2015-May
2015-Jun
2015-Jul
2015-Aug
2015-Sep
2015-Oct
2015-Nov
2015-Dec
2016-Jan
2016-Feb
2016-Mar


Polpitiya Power Station (75MW)
GWh
45
40
35
30
25
20
15
10
5
0
29.26
33.63
27.42
23.33
25.22
25.93
36.49
42.96
42.59
25.43
33.45
32.16
2015-Apr
2015-May
2015-Jun
2015-Jul
2015-Aug
2015-Sep
2015-Oct
2015-Nov
2015-Dec
2016-Jan
2016-Feb
2016-Mar


Kotmale Power Station (201MW)
GWh
90
80
70
60
50
40
30
20
10
0
25.85
40.46
22.92
33.84
39.56
22.21
65.59
86.00
59.97
21.18
28.45
15.6
2015-Apr
2015-...
2015-Jun
2015-Jul
2015-Aug
2015-Sep
2015-Oct
2015-Nov
2015-Dec
2016-Jan
2016-Feb
2016-Mar


Victoria Power Station (210MW)
GWh
160
140
120
100
80
60
40
20
0
60.02
77.58
40.09
16.67
17.88
51.24
71.30
102.01
143.38
100.65
62.47
49.47
2015-Apr
2015-May
2015-Jun
2015-Jul
2015-Aug
2015-Sep
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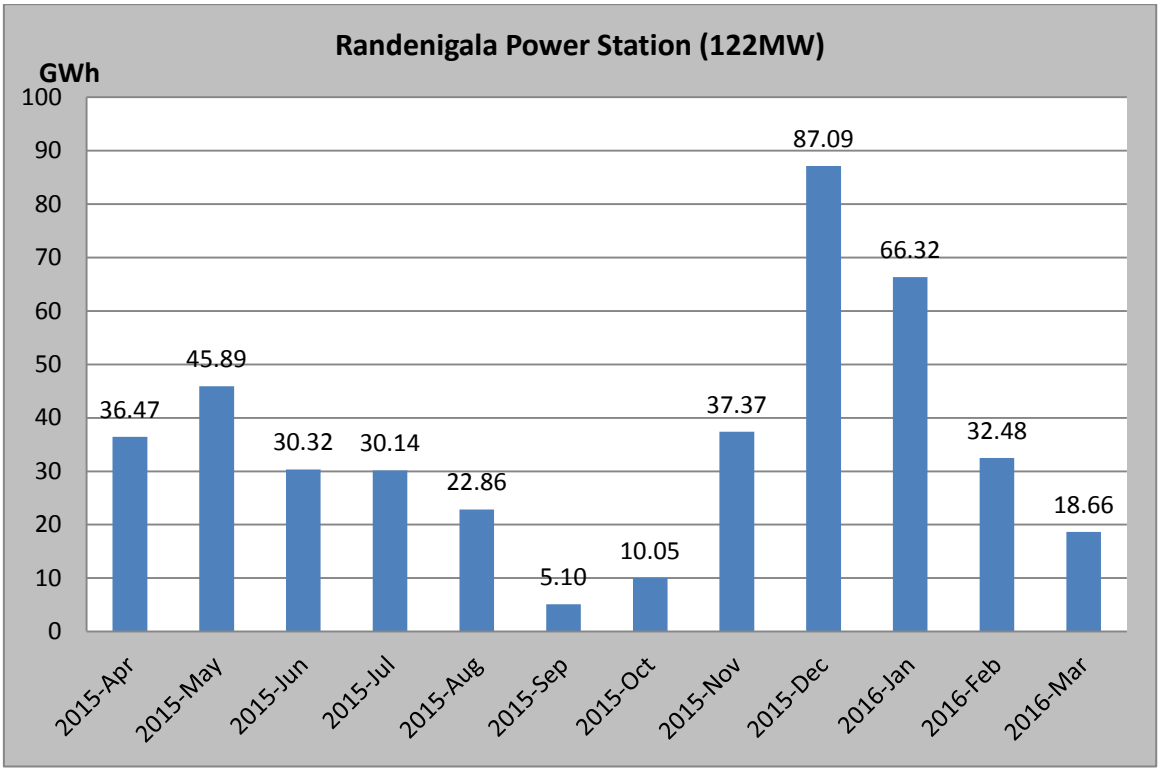
2015-Dec
2016-Jan
2016-Feb
2016-Mar


Randenigala Power Station (122MW)
GWh
100
90
80
70
60
50
40
30
20
10
0
36.47
45.89
30.32
30.14
22.86
5.10
10.05
37.37
87.09
66.32
32.48
18.66
2015-Apr
2015-May
2015-Jun
2015-Jul
2015-Aug
2015-Sep
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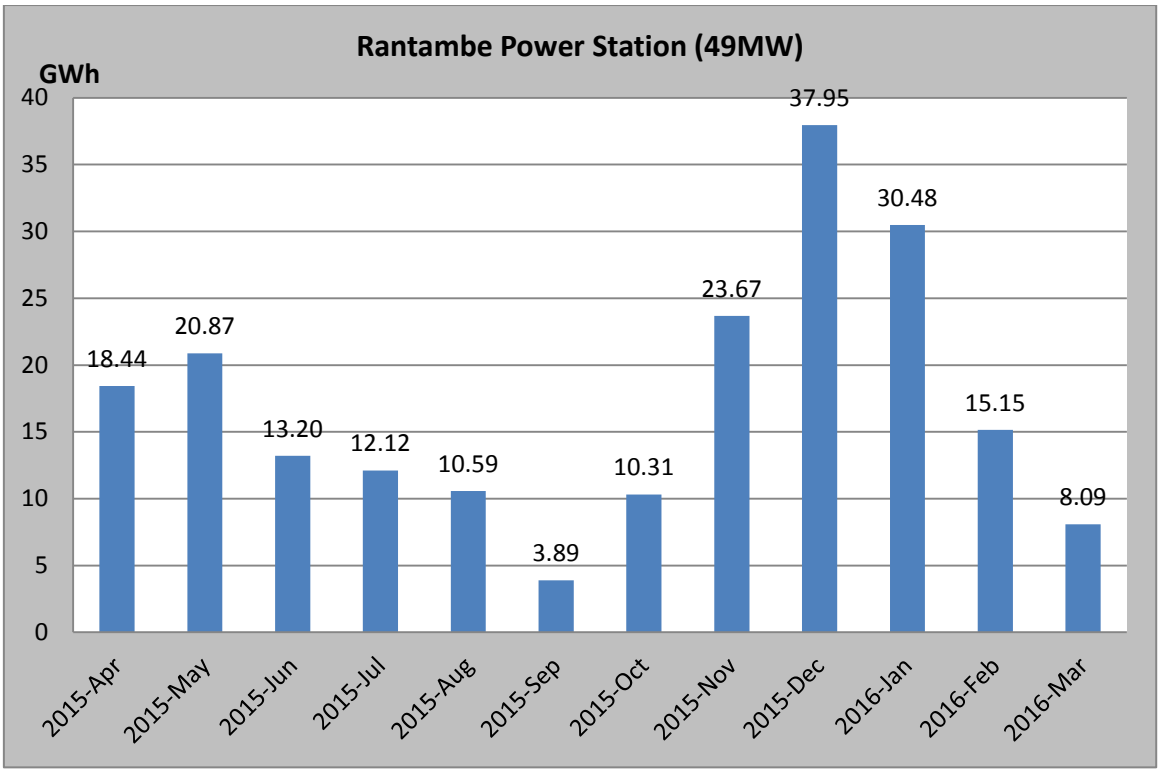
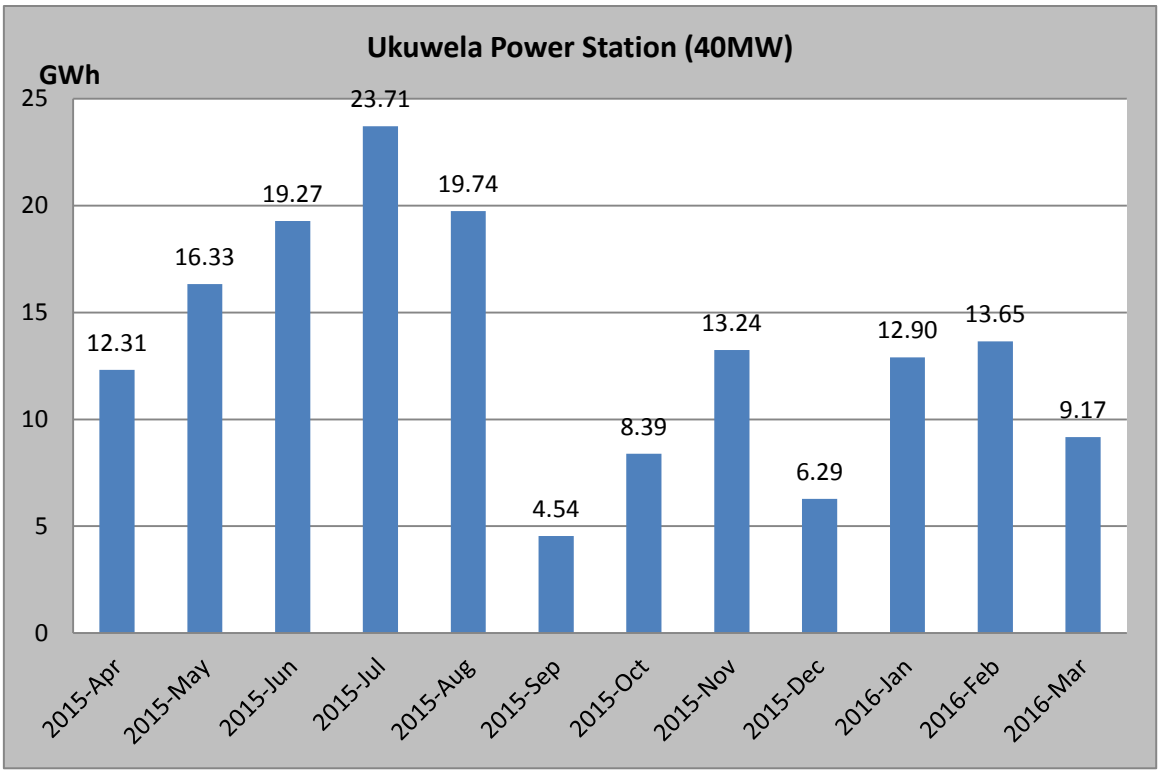
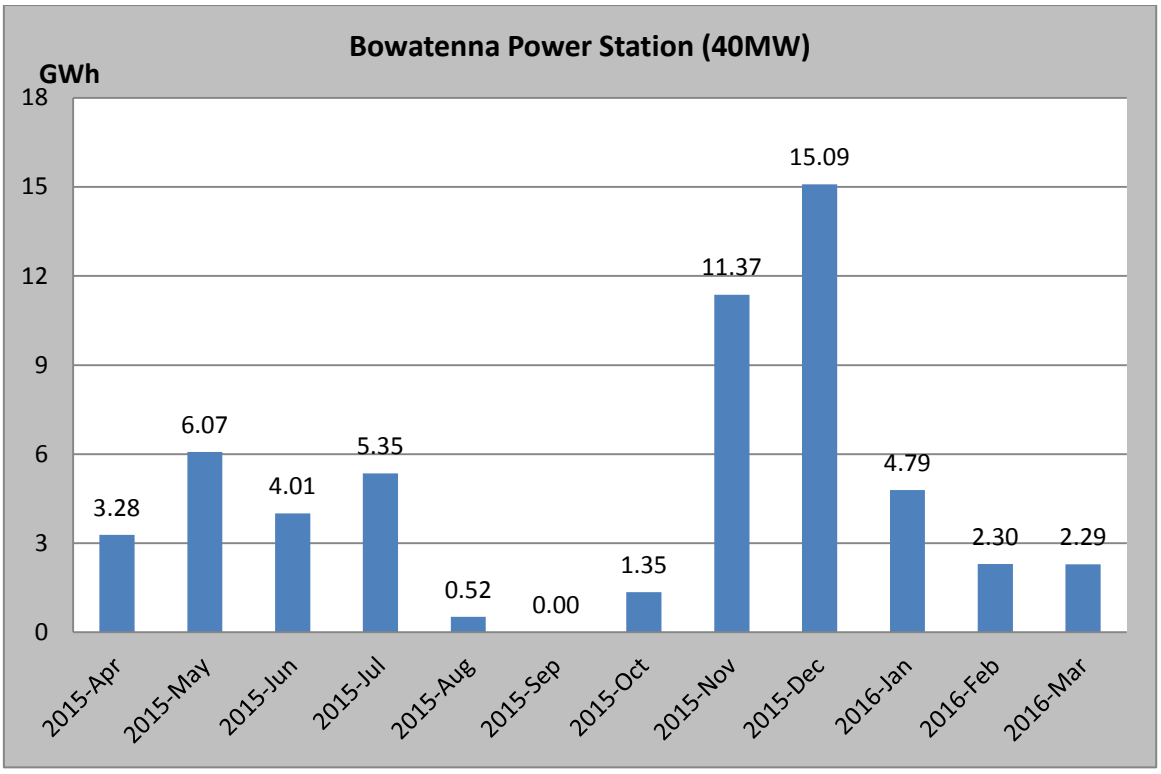
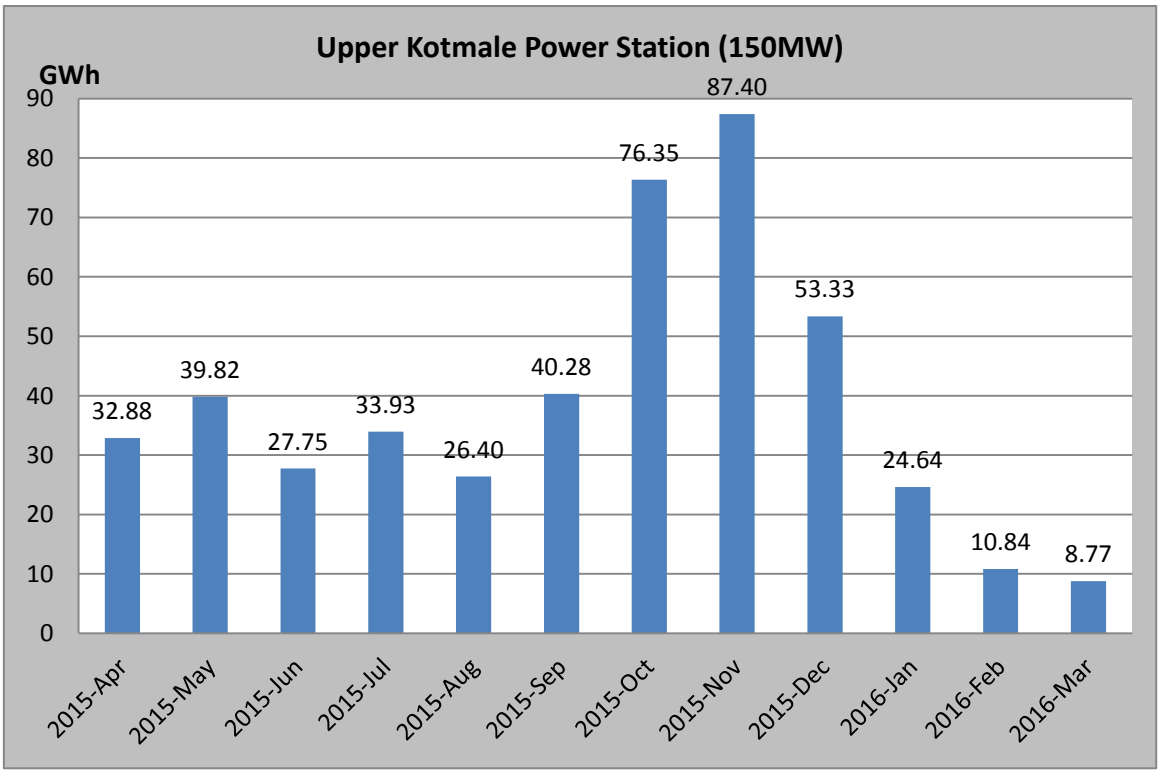
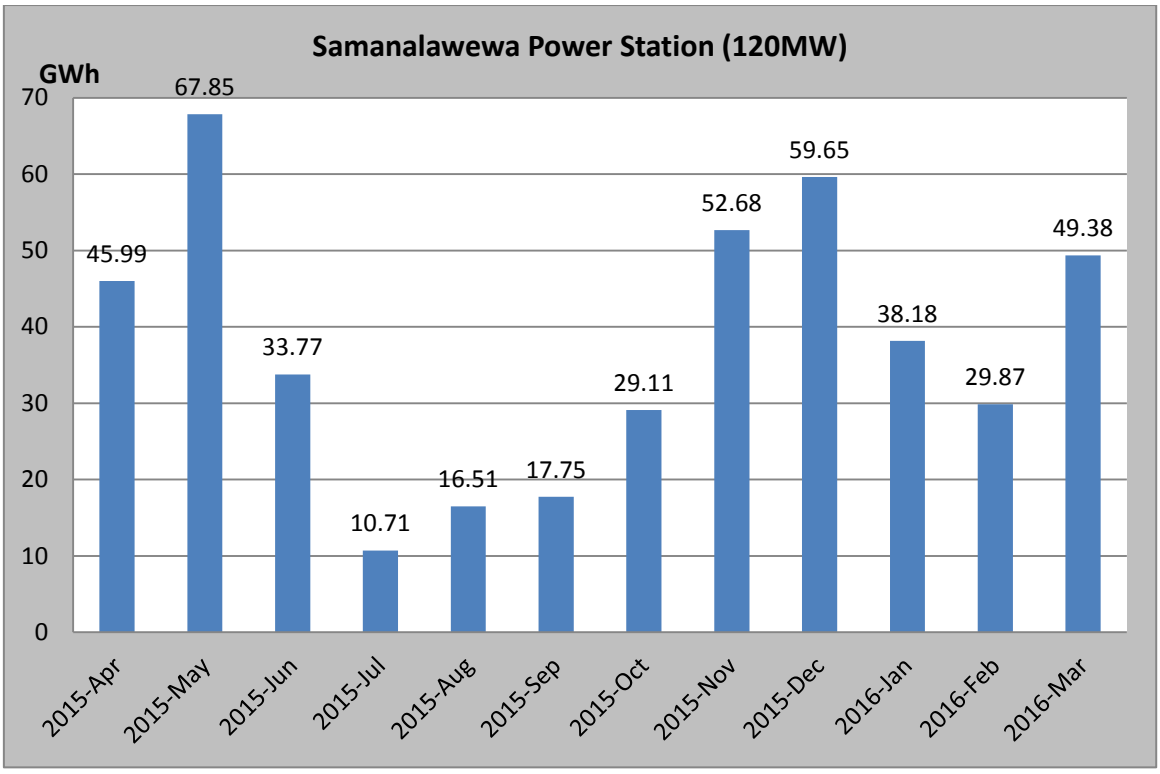
2015-Nov
2015-Dec
2016-Jan
2016-Feb
2016-Mar


Rantambe Power Station (49MW)
GWh
40
35
30
25
20
15
10
5
0
18.44
20.87
13.20
12.12
10.59
3.89
10.31
23.67
37.95
30.48
15.15
8.09
2015-Apr
2015-May
2015-Jun
2015-Jul
2015-Aug
2015-Sep
2015-Oct
2015-Nov
2015-Dec
2016-Jan
2016-Feb
2016-Mar


Ukuwela Power Station (40MW)
GWh
25
20
15
10
5
0
12.31
16.33
19.27
23.71
19.74
4.54
8.39
13.24
6.29
12.90
13.65
9.17
2015-Apr
2015-May
2015-Jun
2015-Jul
2015-Aug
2015-Sep
2015-Oct
2015-Nov
2015-Dec
2016-Jan
2016-Feb
2016-Mar


Bowatenna Power Station (40MW)
GWh
18
15
12
9
6
3
0
3.28
6.07
4.01
5.35
0.52
0.00
1.35
11.37
15.09
4.79
2.30
2.29
2015-Apr
2015-May
2015-Jun
2015-Jul
2015-Aug
2015-Sep
2015-Oct
2015-Nov
2015-Dec
2016-Jan
2016-Feb
2016-Mar


Upper Kotmale Power Station (150MW)
GWh
90
80
70
60
50
40
30
20
10
0
32.88
39.82
27.75
33.93
26.40
40.28
76.35
87.40
53.33
24.64
10.84
8.77
2015-Apr
2015-May
2015-Jun
2015-Jul
2015-Aug
2015-Sep
2015-Oct
2015-Nov
2015-Dec
2016-Jan
2016-Feb
2016-Mar


Samanalawewa Power Station (120MW)
GWh
70
60
50
40
30
20
10
0
45.99
67.85
33.77
10.71
16.51
17.75
29.11
52.68
59.65
38.18
29.87
49.38
2015-Apr
2015-May
2015-Jun
2015-Jul
2015-Aug
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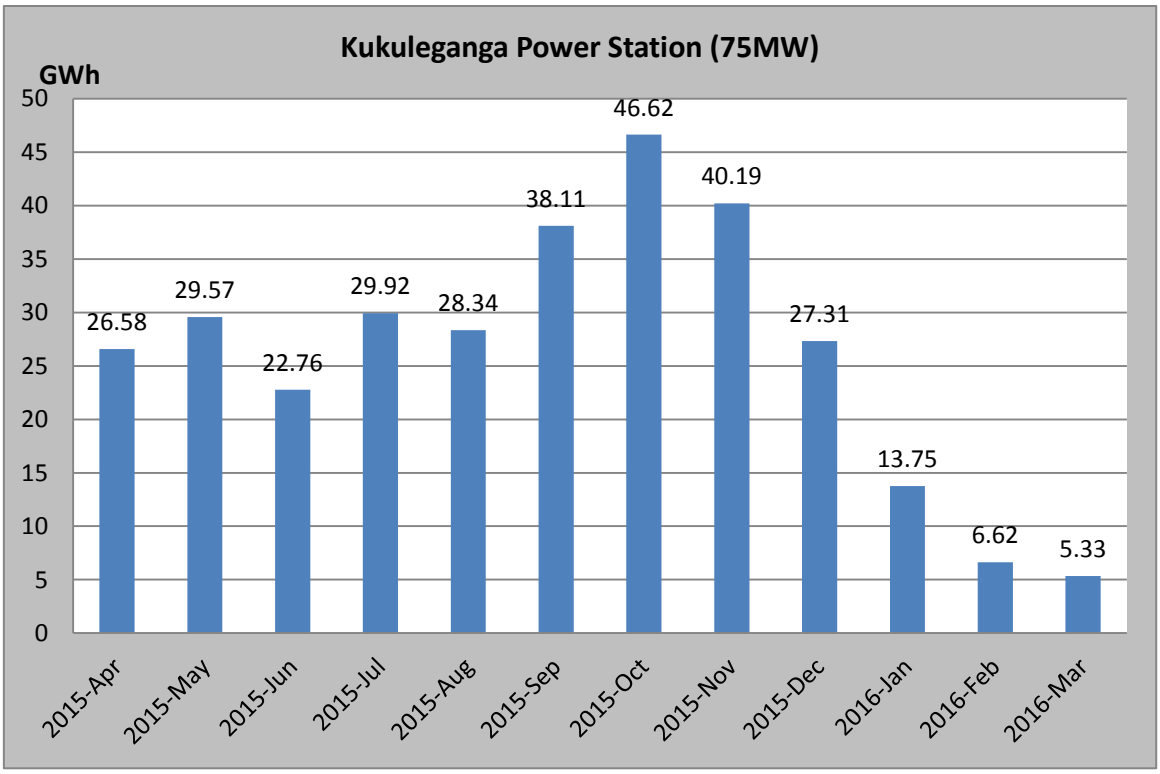
2015-Oct
2015-Nov
2015-Dec
2016-Jan
2016-Feb
2016-Mar


Kukuleganga Power Station (75MW)
GWh
50
45
40
35
30
25
20
15
10
5
0
26.58
29.57
22.76
29.92
28.34
38.11
46.62
40.19
27.31
13.75
6.62
5.33
2015-Apr
2015-May
2015-Jun
2015-Jul
2015-Aug
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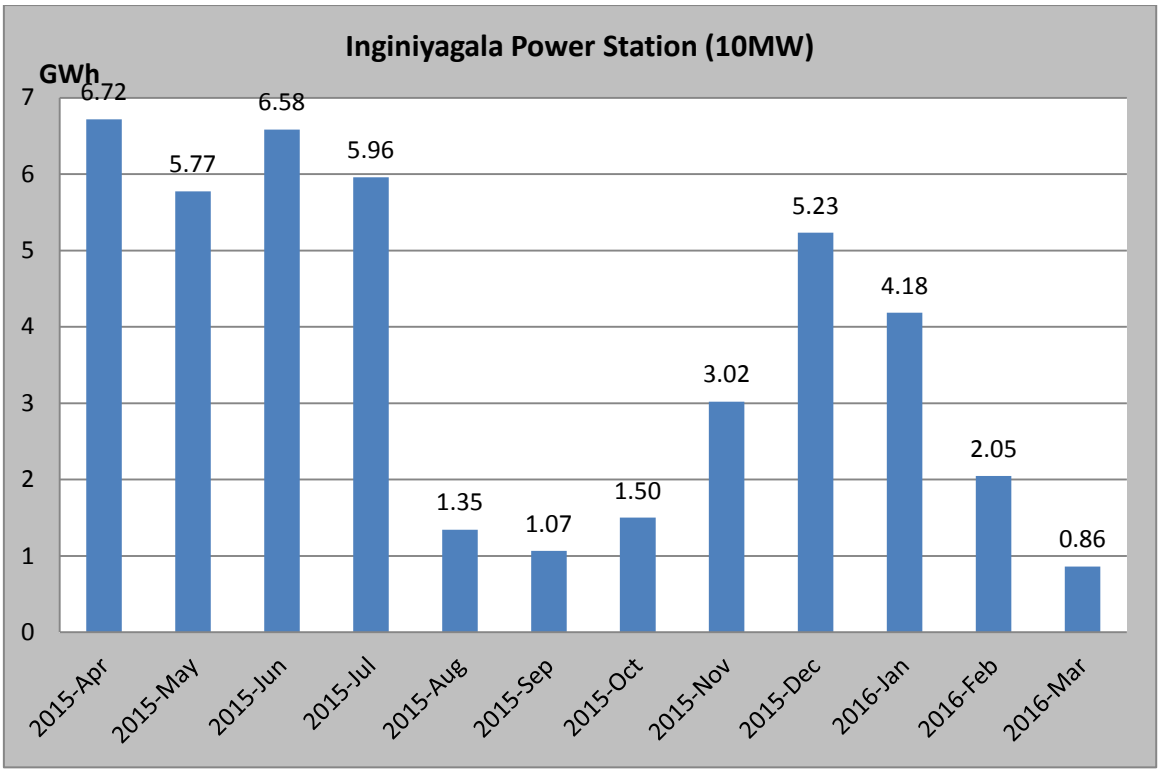
2015-Oct
2015-Nov
2015-Dec
2016-Jan
2016-Feb
2016-Mar


Inginiyagala Power Station (10MW)
GWh
7
6
5
4
3
2
1
0
6.72
5.77
6.58
5.96
1.35
1.07
1.50
3.02
5.23
4.18
2.05
0.86
2015-Apr
2015-May
2015-Jun
2015-Jul
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2015-Nov
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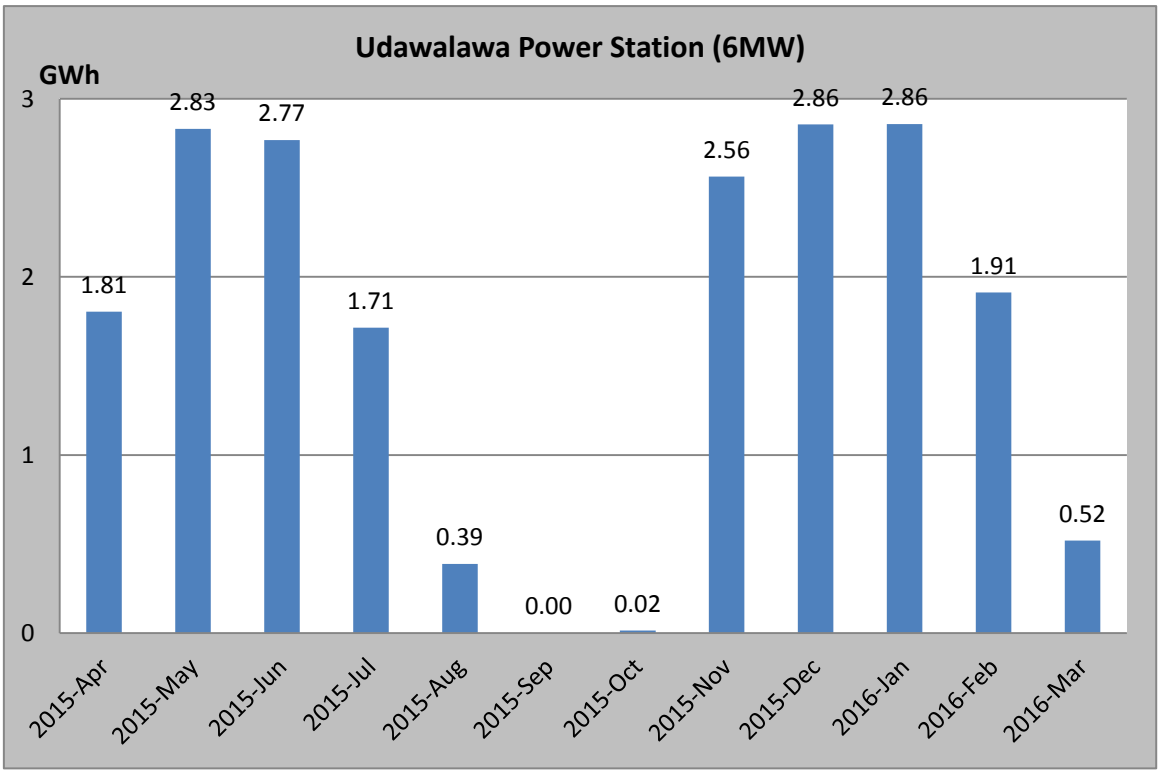
2016-Jan
2016-Feb
2016-Mar


Udawalawa Power Station (6MW)
GWh
3
2
1
0
1.81
2.83
2.77
1.71
0.39
0.00
0.02
2.56
2.86
2.86
1.91
0.52
2015-Apr
2015-May
2015-Jun
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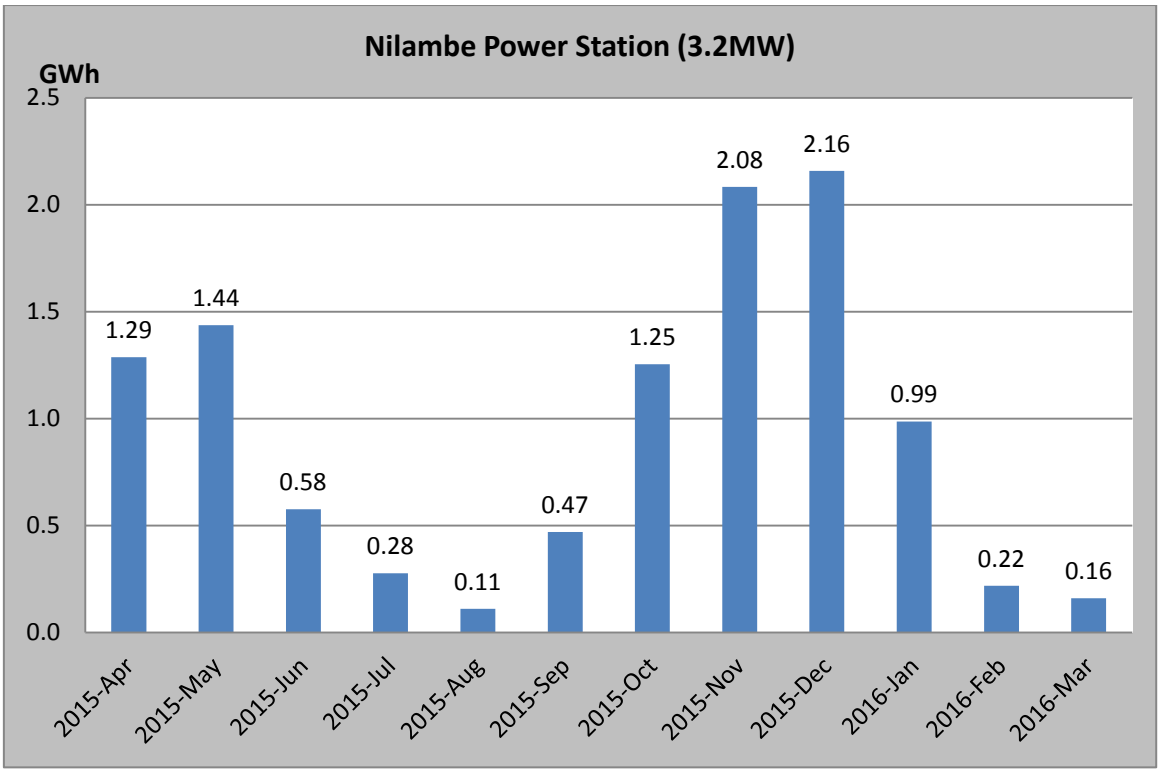
2016-Jan
2016-Feb
2016-Mar


Nilambe Power Station (3.2MW)
GWh
2.5
2.0
1.5
1.0
0.5
0.0
1.29
1.44
0.58
0.28
0.11
0.47
1.25
2.08
2.16
0.99
0.22
0.16
2015-Apr
2015-May
2015-Jun
2015-Jul
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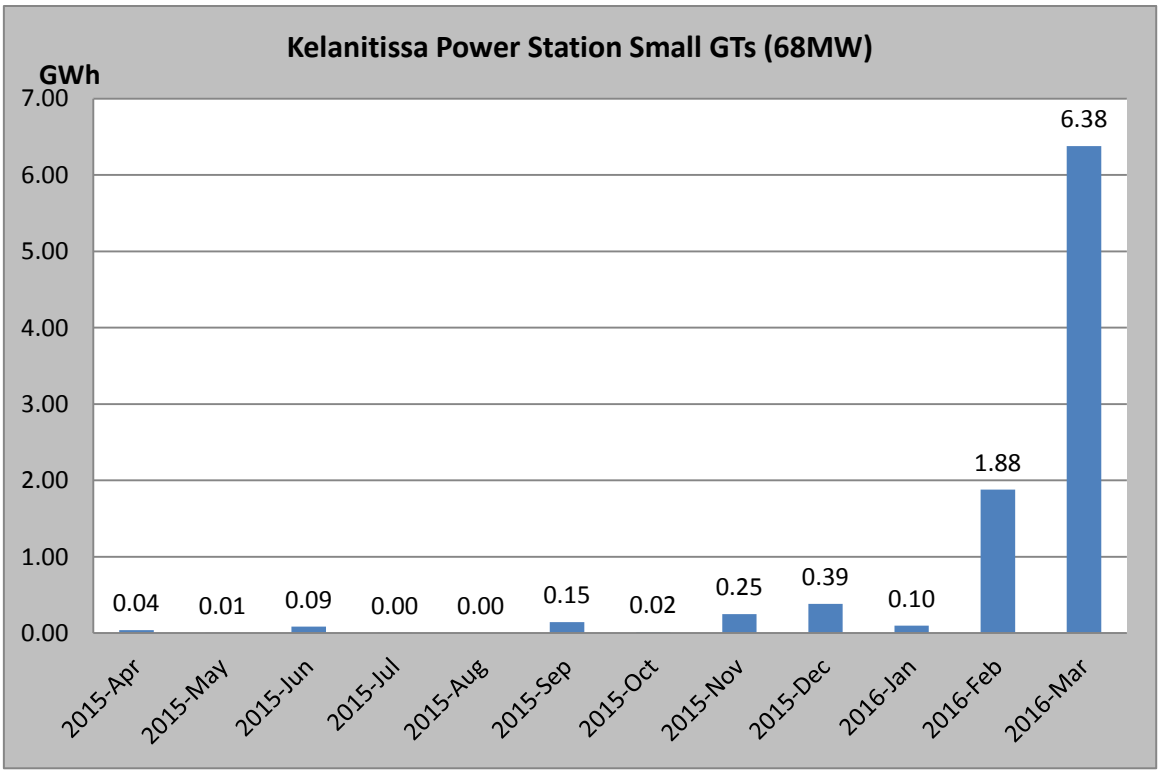
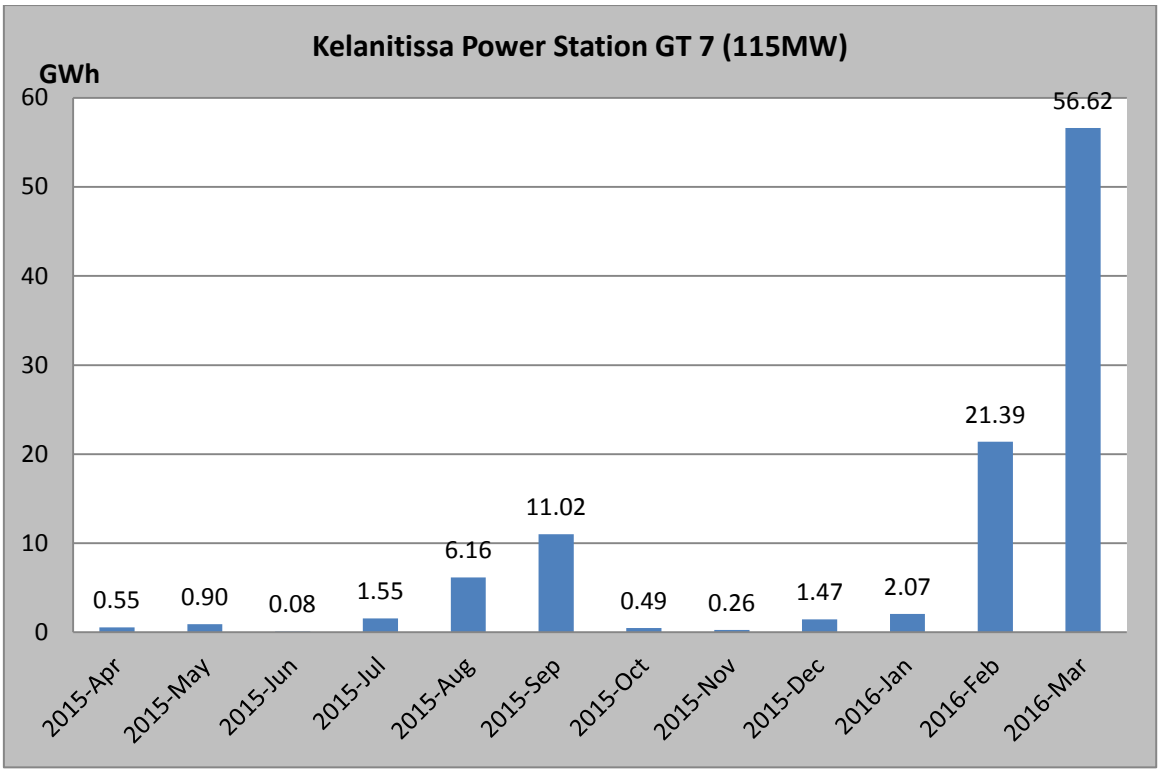
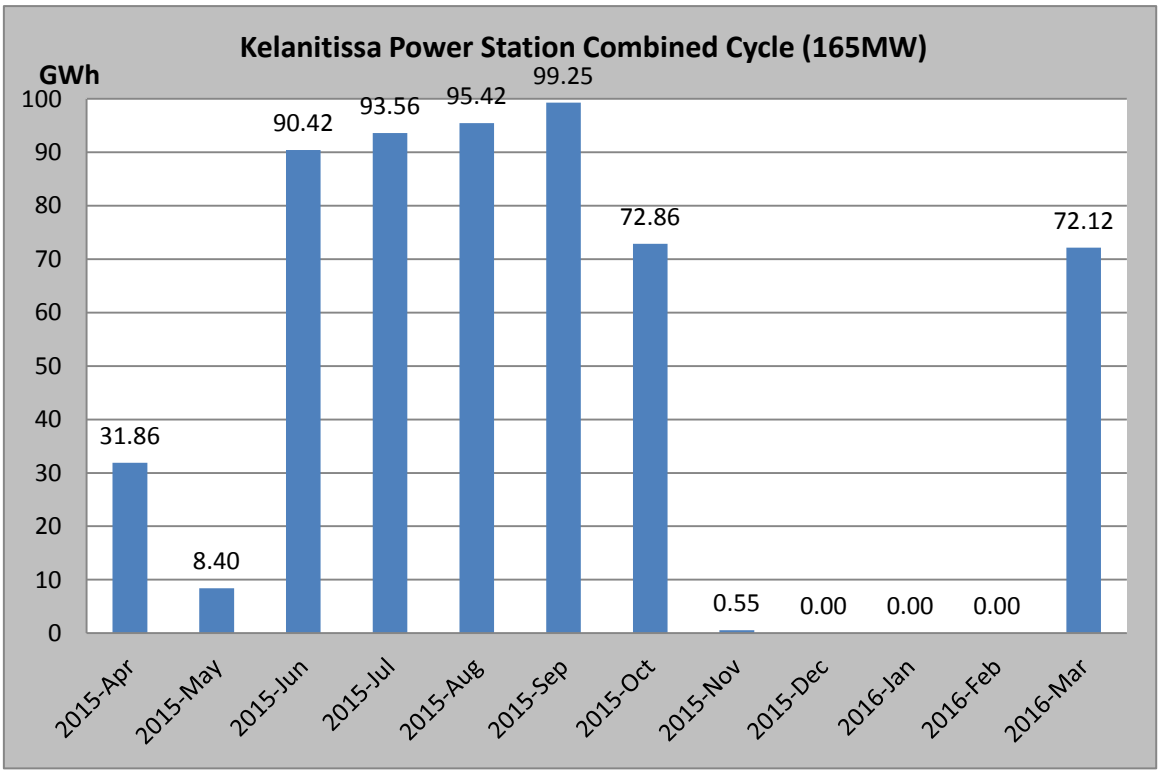
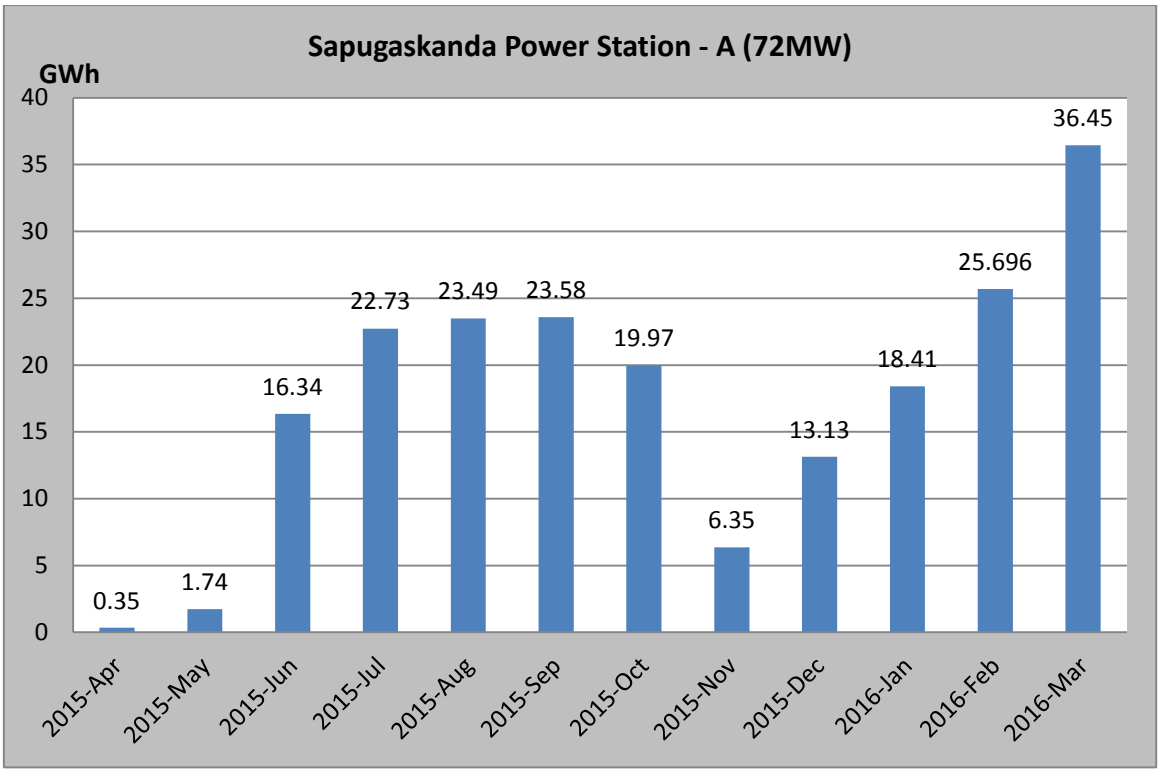
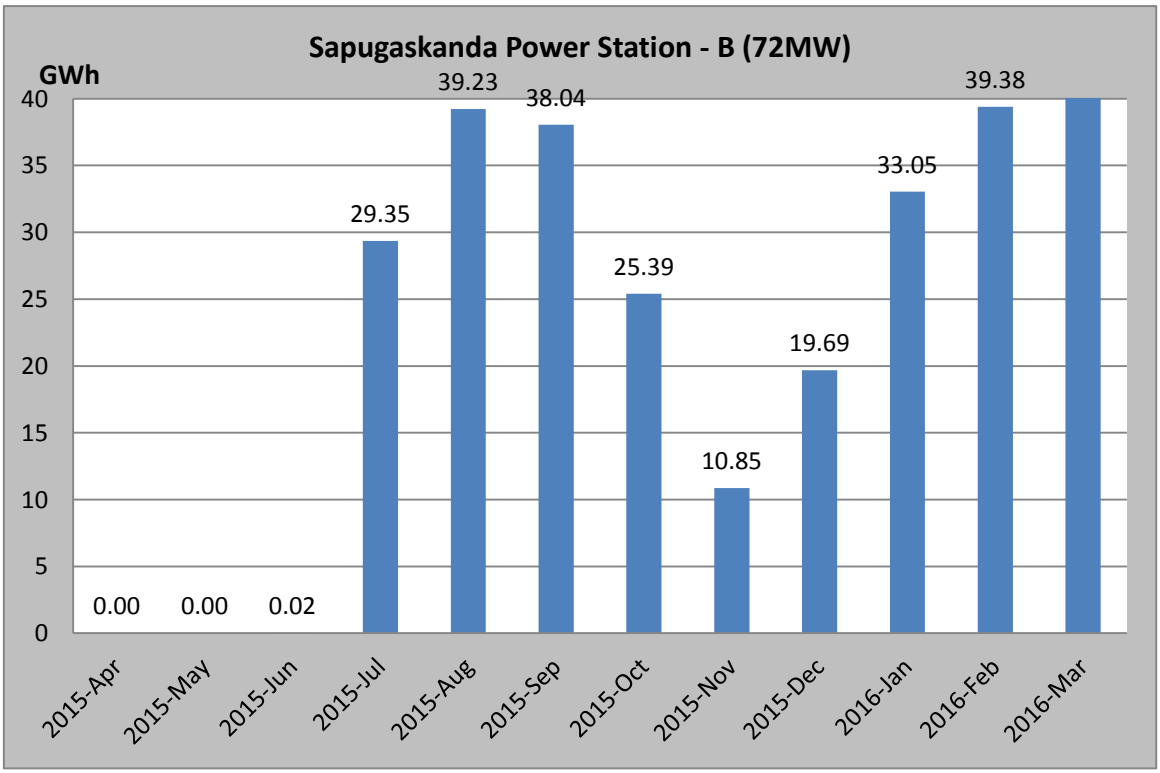
2015-Oct
2015-Nov
2015-Dec
2016-Jan
2016-Feb
2016-Mar

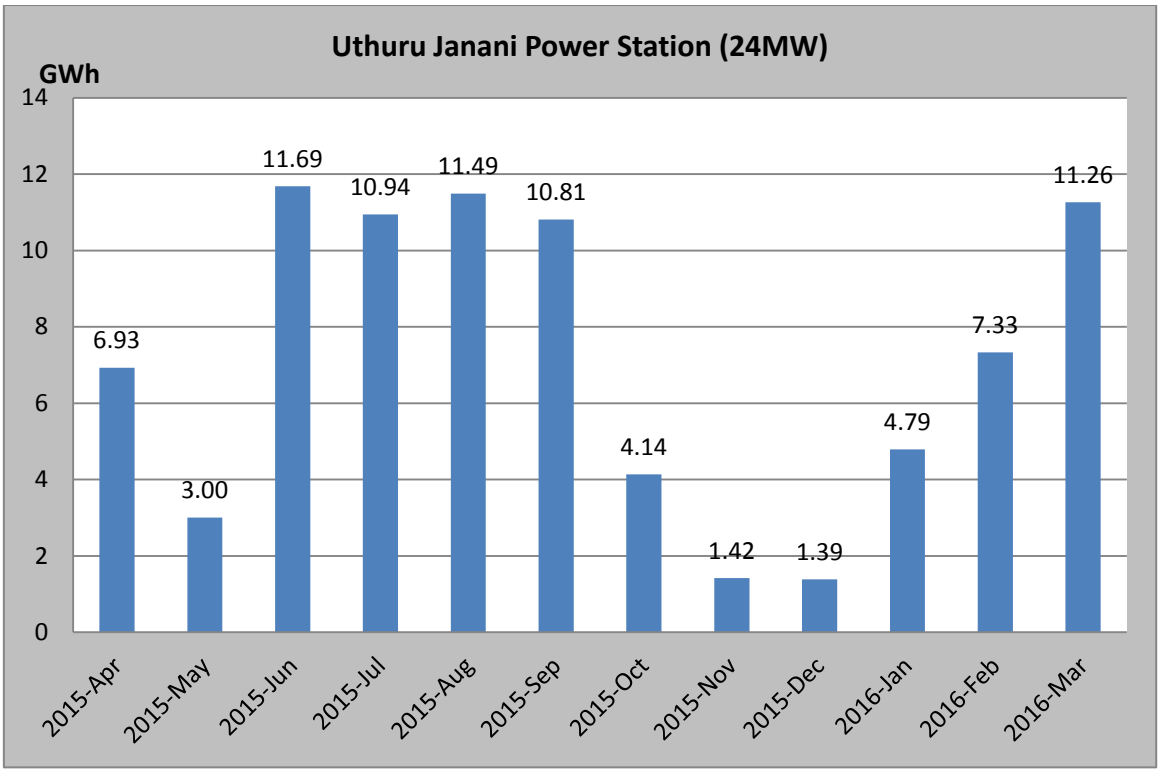

Kelanitissa Power Station Small GTs (68MW)
GWh
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
0.04
0.01
0.09
0.00
0.00
0.15
0.02
0.25
0.39
0.10
1.88
6.38
2015-Apr
2015-May
2015-Jun
2015-Jul
2015-Aug
2015-Sep
2015-Oct
2015-Nov
2015-Dec
2016-Jan
2016-Feb
2016-Mar

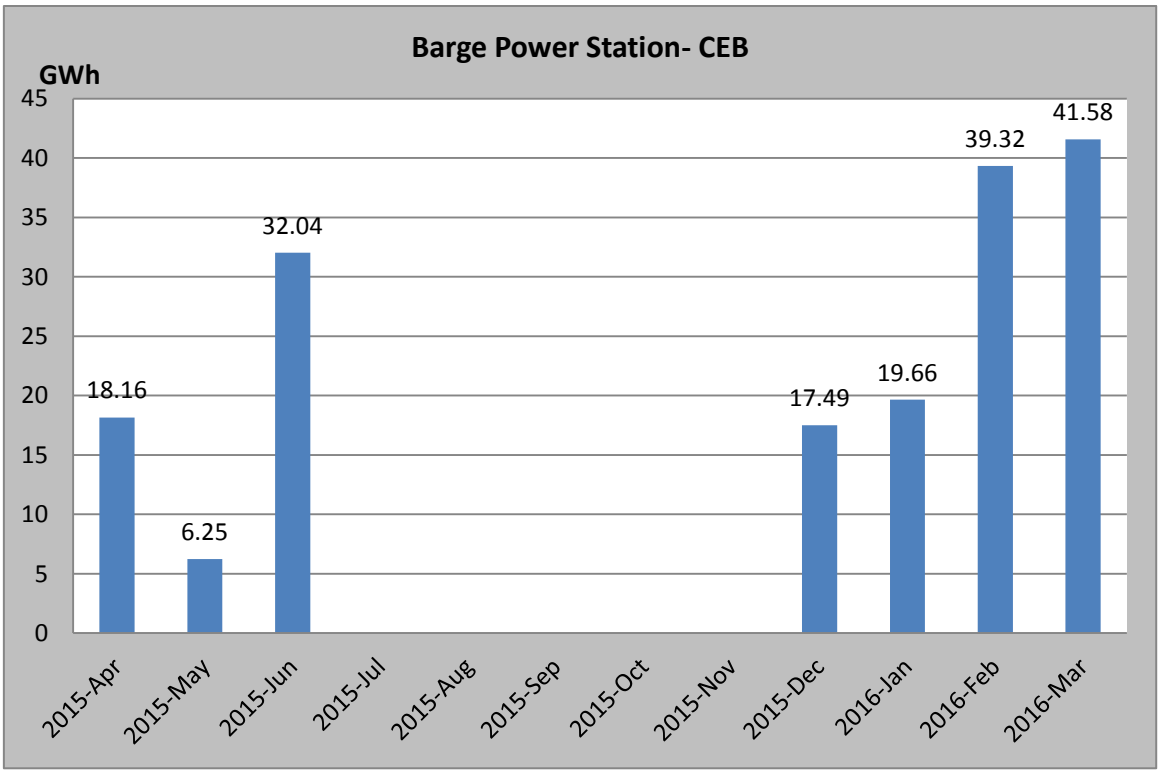

Kelanitissa Power Station GT 7 (115MW)
GWh
60
50
40
30
20
10
0
0.55
0.90
0.08
1.55
6.16
11.02
0.49
0.26
1.47
2.07
21.39
56.62
2015-Apr
2015-May
2015-Jun
2015-Jul
2015-Aug
2015-Sep
2015-Oct
2015-Nov
2015-Dec
2016-Jan
2016-Feb
2016-Mar


Kelanitissa Power Station Combined Cycle (165MW)
GWh
100
90
80
70
60
50
40
30
20
10
0
31.86
8.40
90.42
93.56
95.42
99.25
72.86
0.55
0.00
0.00
0.00
72.12
2015-Apr
2015-May
2015-Jun
2015-Jul
2015-Aug
2015-Sep
2015-Oct
2015-Nov
2015-Dec
2016-Jan
2016-Feb
2016-Mar

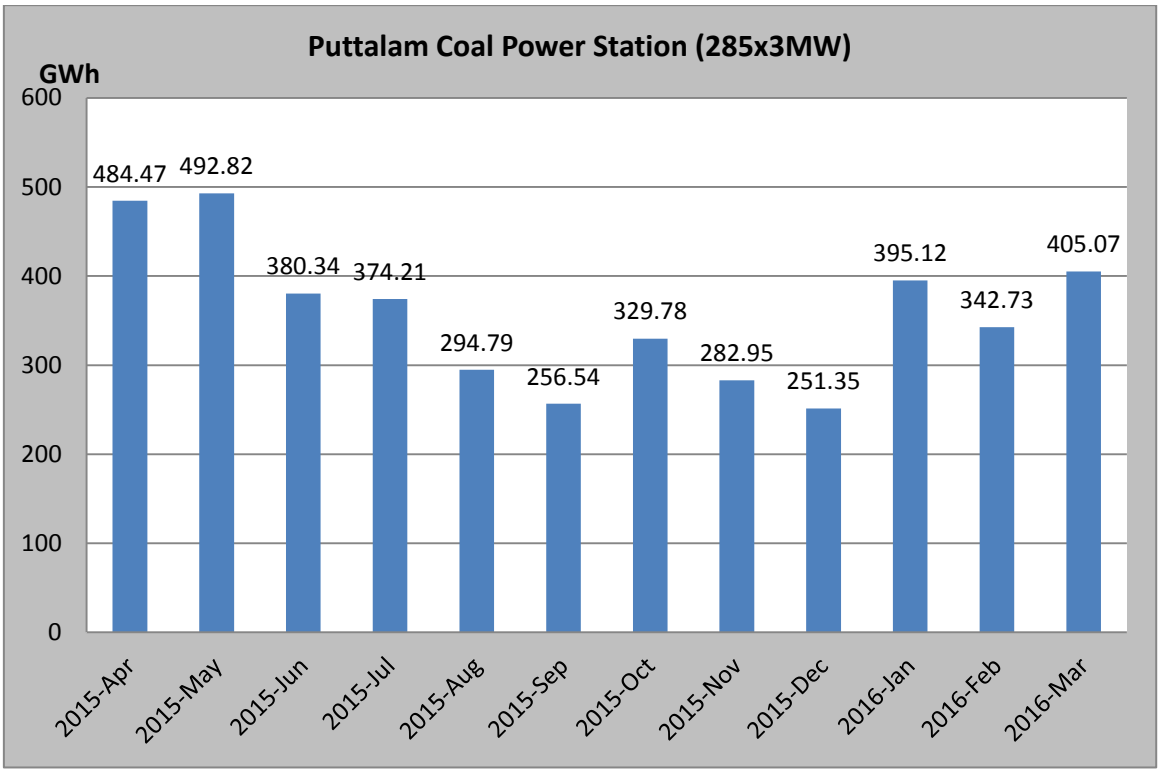

Sapugaskanda Power Station - A (72MW)
GWh
40
35
30
25
20
15
10
5
0
0.35
1.74
16.34
22.73
23.49
23.58
19.97
6.35
13.13
18.41
25.696
36.45
2015-Apr
2015-May
2015-Jun
2015-Jul
2015-Aug
2015-Sep
2015-Oct
2015-Nov
2015-Dec
2016-Jan
2016-Feb
2016-Mar

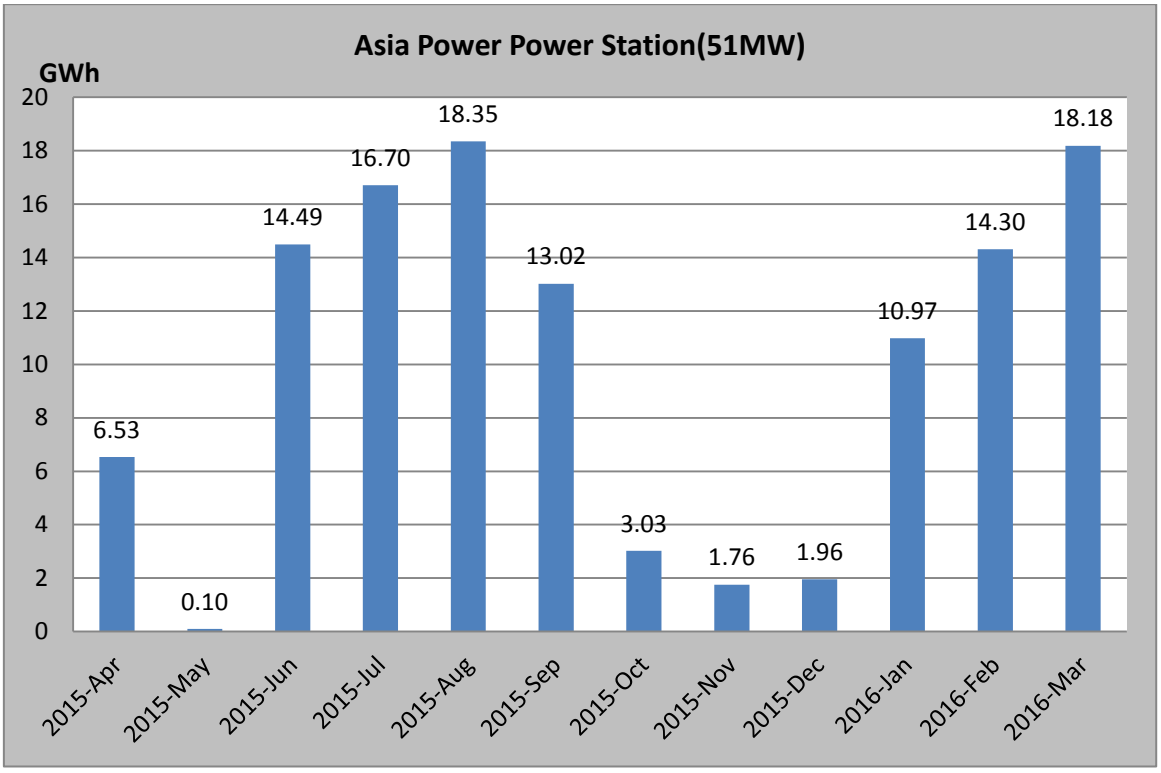

Sapugaskanda Power Station - B (72MW)
GWh
40
35
30
25
20
15
10
5
0
0.00
0.00
0.02
29.35
39.23
38.04
25.39
10.85
19.69
33.05
39.38
2015-Apr
2015-May
2015-Jun
2015-Jul
2015-Aug
2015-Sep
2015-Oct
2015-Nov
2015-Dec
2016-Jan
2016-Feb
2016-Mar

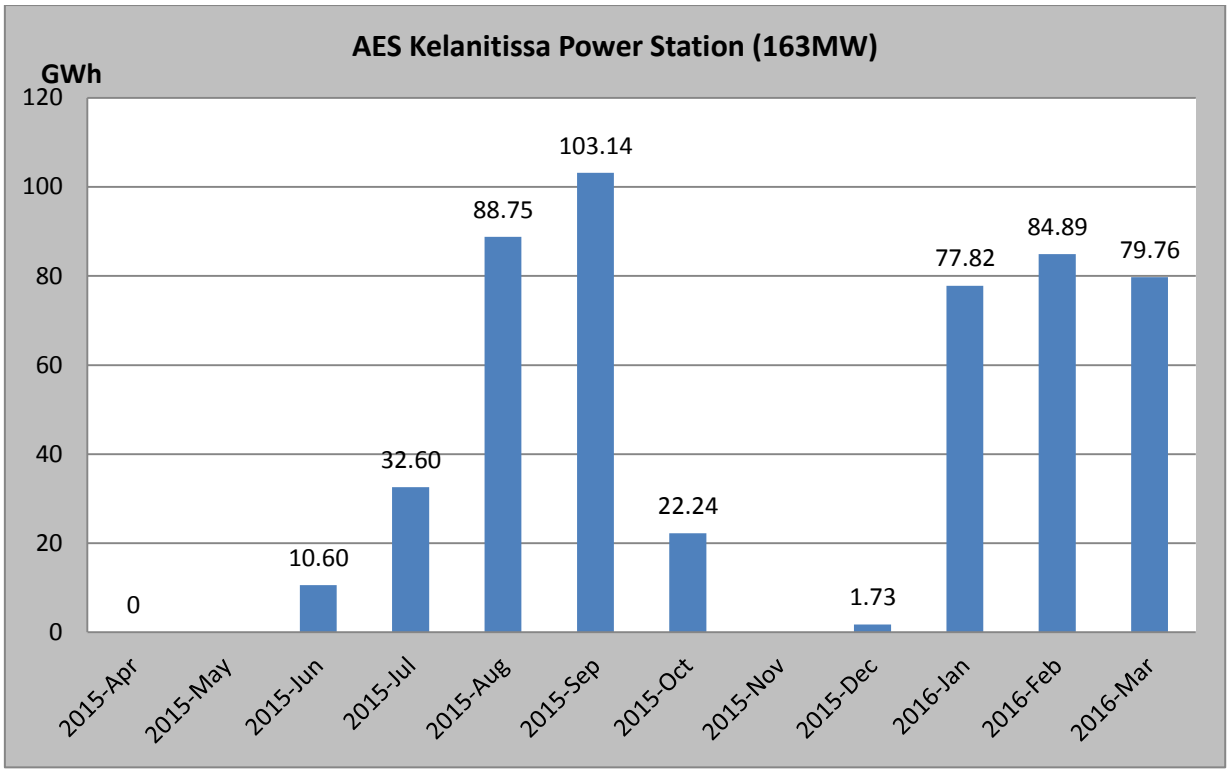


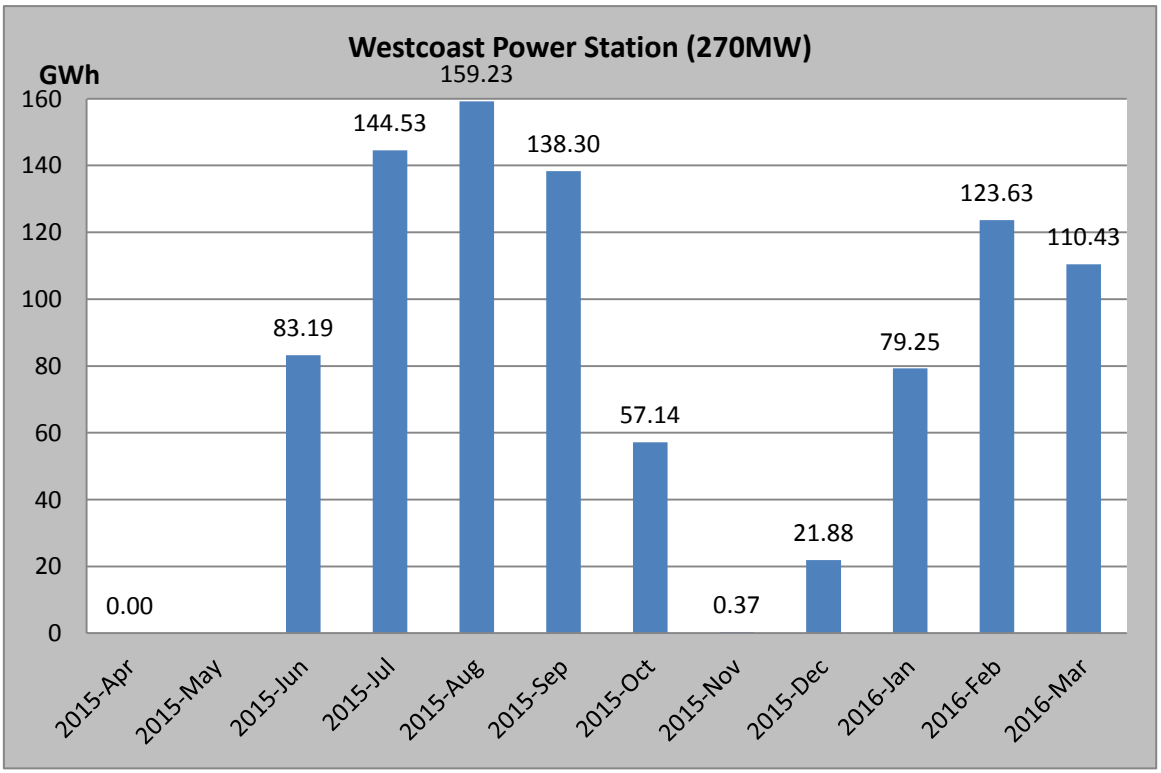


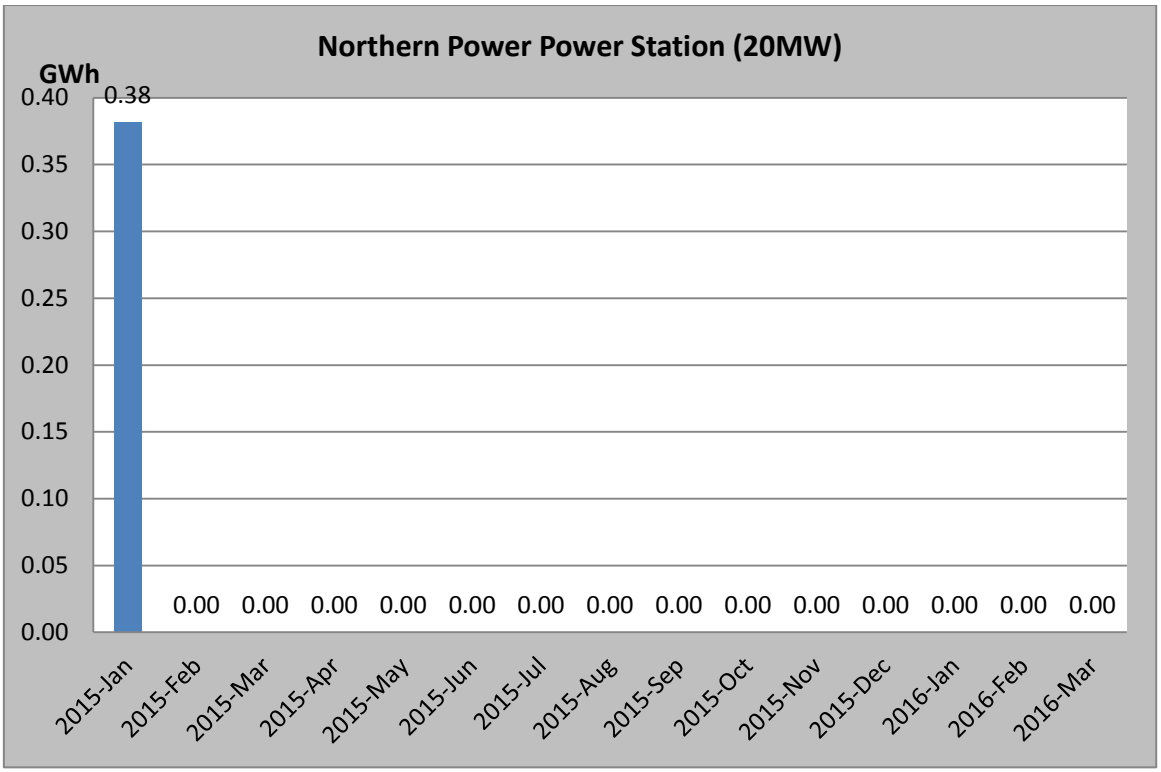
Note: *The Power plant was operated as an IPP power plant (Colombo Power) until end of the Power Purchase Agreement in June 2015. The same is operated by CEB since December 2015*


Puttalam Coal Power Station (285x3MW)
GWh
600
500
400
300
200
100
0
484.47
492.82
380.34
374.21
294.79
256.54
329.78
282.95
251.35
395.12
342.73
405.07
2015-Apr
2015-May
2015-Jun
2015-Jul
2015-Aug
2015-Sep
2015-Oct
2015-Nov
2015-Dec
2016-Jan
2016-Feb
2016-Mar


Asia Power Power Station(51MW)
GWh
20
18
16
14
12
10
8
6
4
2
0
6.53
0.10
14.49
16.70
18.35
13.02
3.03
1.76
1.96
10.97
14.30
18.18
2015-Apr
2015-May
2015-Jun
2015-Jul
2015-Aug
2015-Sep
2015-Oct
2015-Nov
2015-Dec
2016-Jan
2016-Feb
2016-Mar

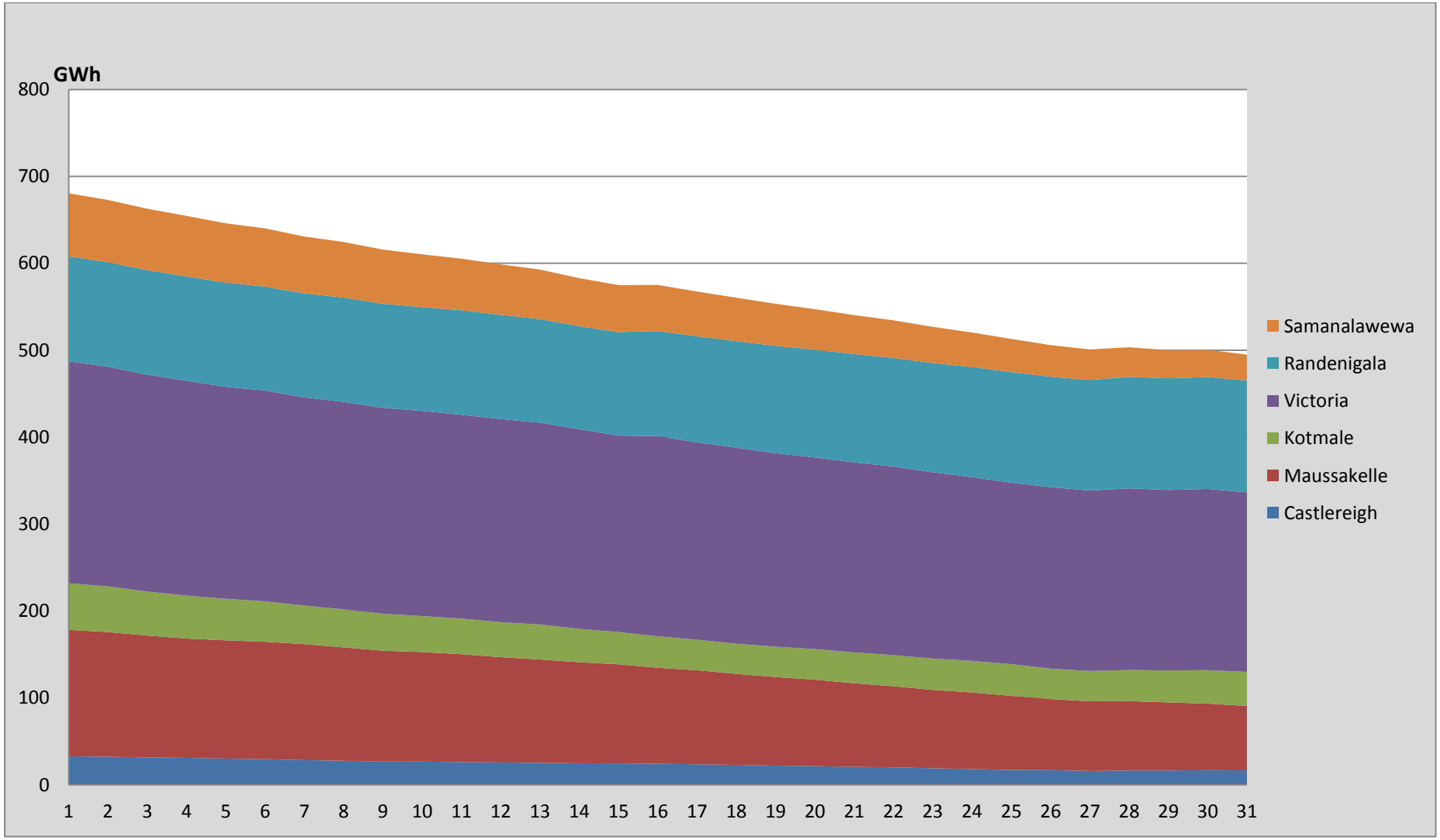

AES Kelanitissa Power Station (163MW)
GWh
120
100
80
60
40
20
0
0
10.60
32.60
88.75
103.14
22.24
1.73
77.82
84.89
79.76
2015-Apr
2015-May
2015-Jun
2015-Jul
2015-Aug
2015-Sep
2015-Oct
2015-Nov
2015-Dec
2016-Jan
2016-Feb
2016-Mar


Westcoast Power Station (270MW)
GWh
160
140
120
100
80
60
40
20
0
0.00
83.19
144.53
159.23
138.30
57.14
0.37
21.88
79.25
123.63
110.43
2015-Apr
2015-May
2015-Jun
2015-Jul
2015-Aug
2015-Sep
2015-Oct
2015-Nov
2015-Dec
2016-Jan
2016-Feb
2016-Mar

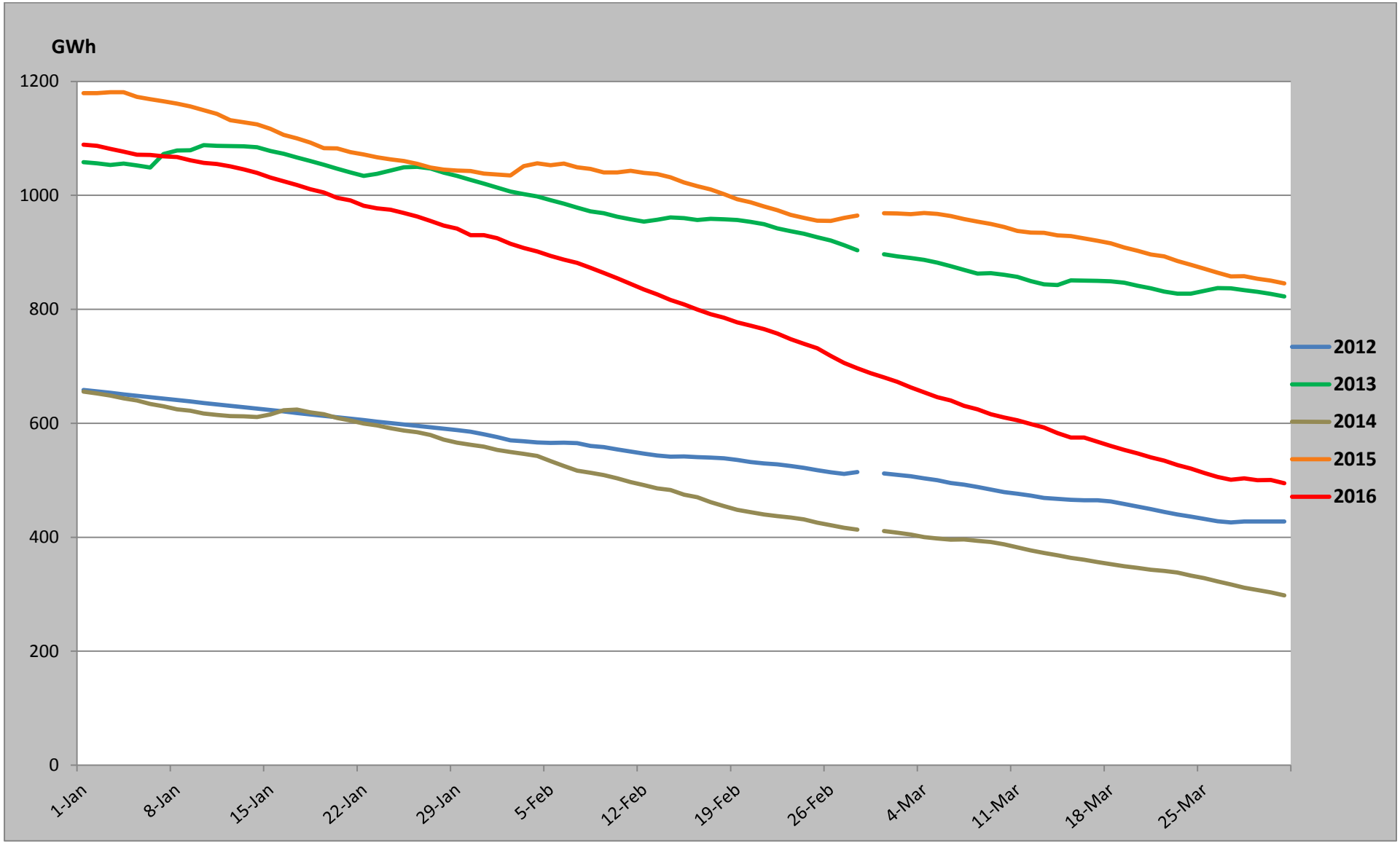


Note: *power plant is not available from February 2015 due to court order*

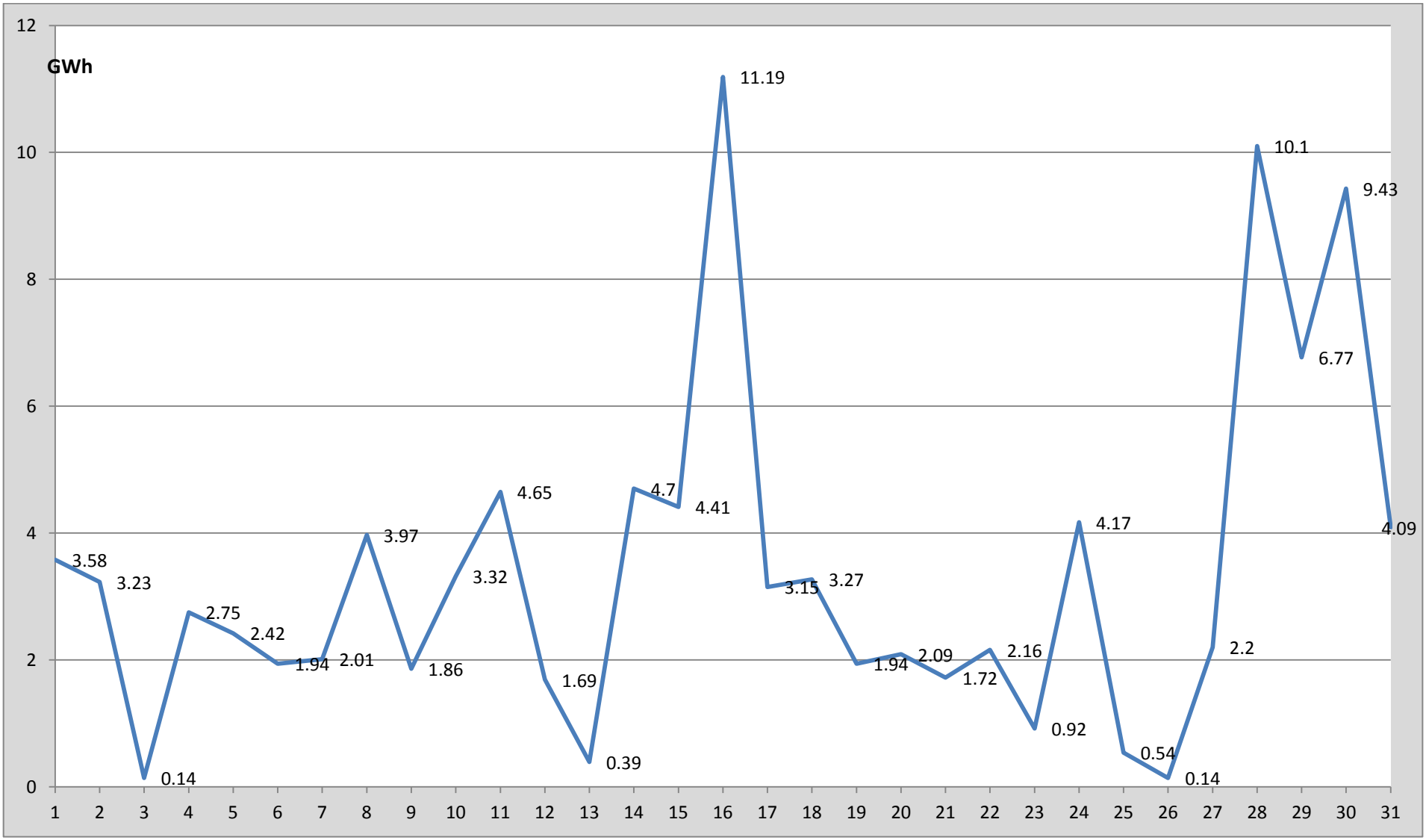
Reservoir Storage Levels - March 2016



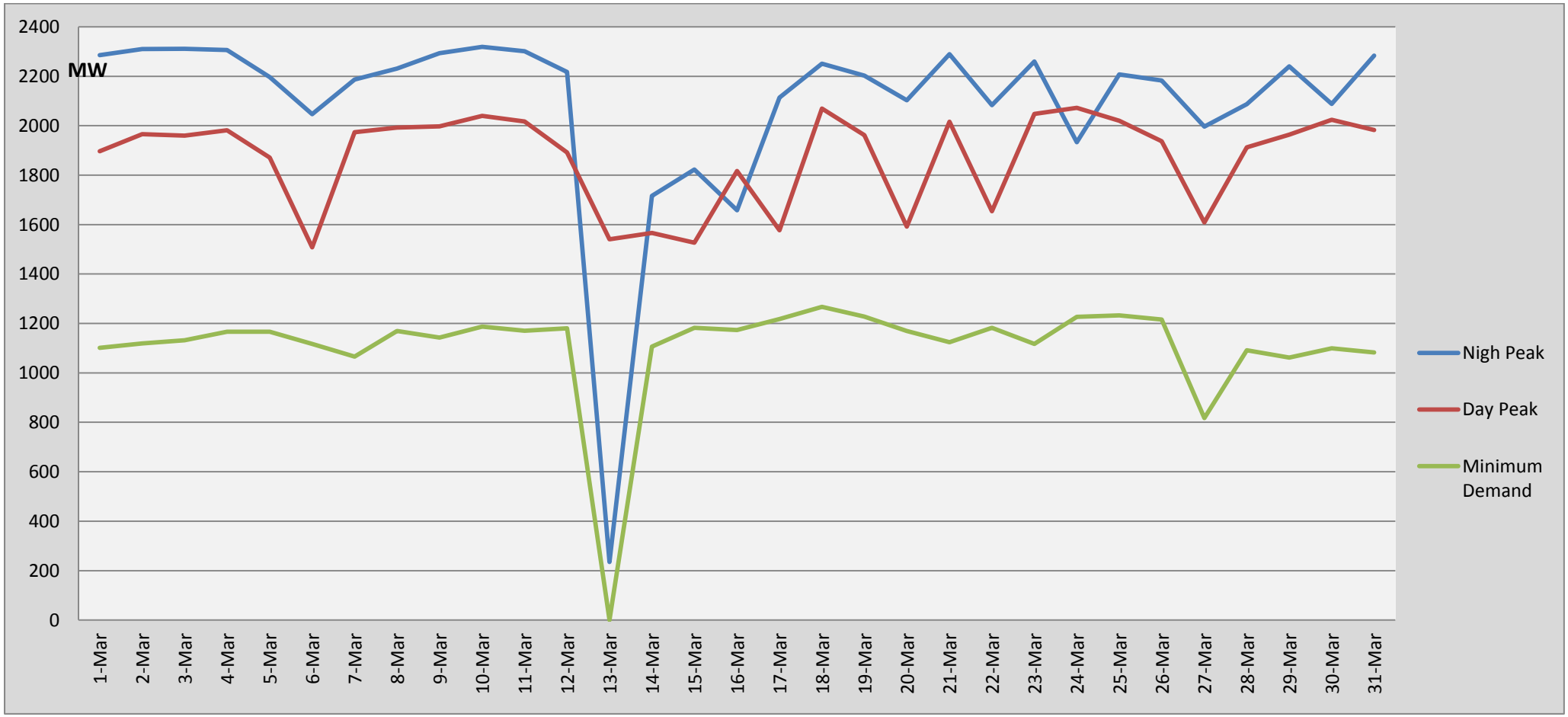
Comparison with past years- Total Reservoir Storage Levels from 1st January



System Inflow - March 2016

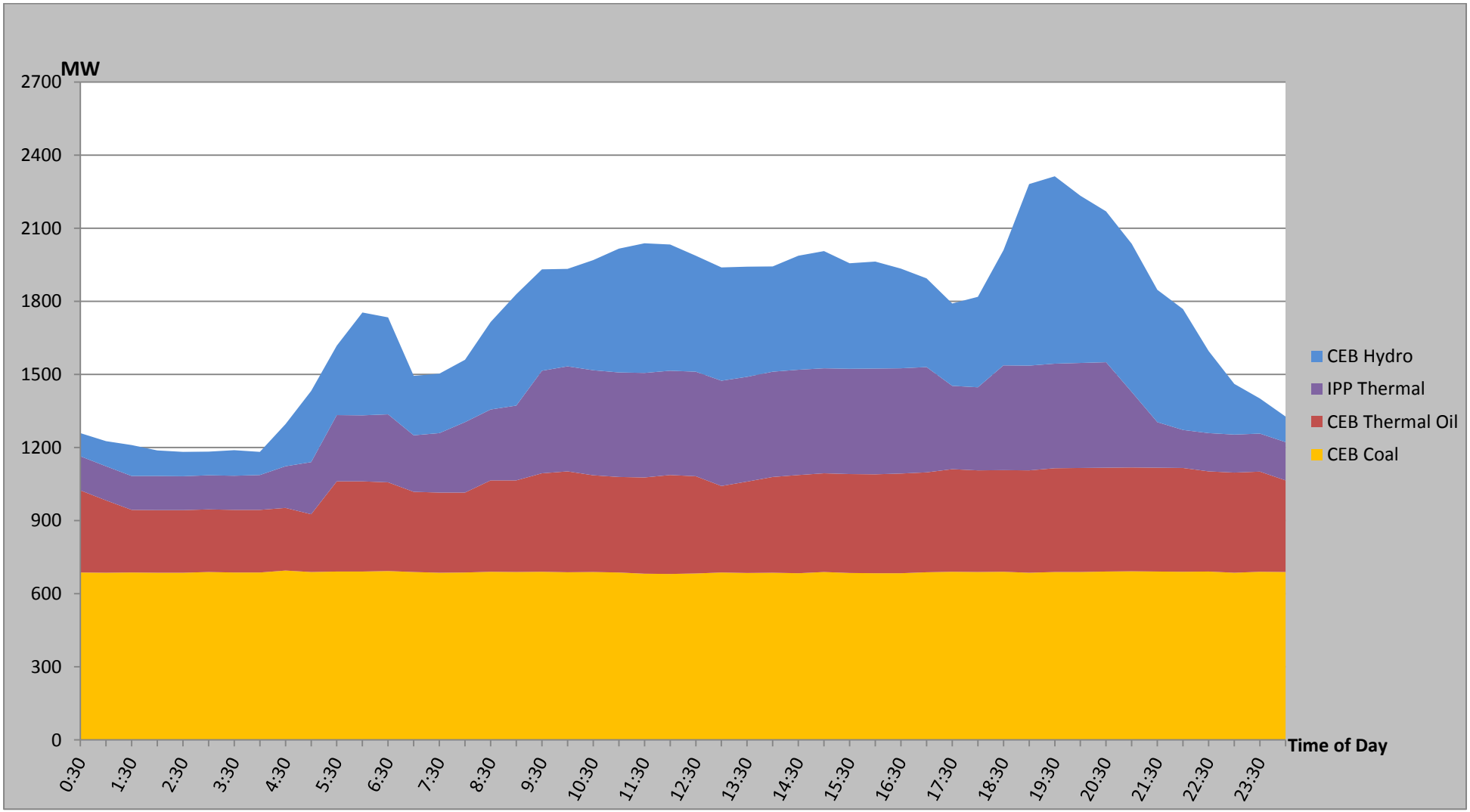


Demand Variation - March 2016



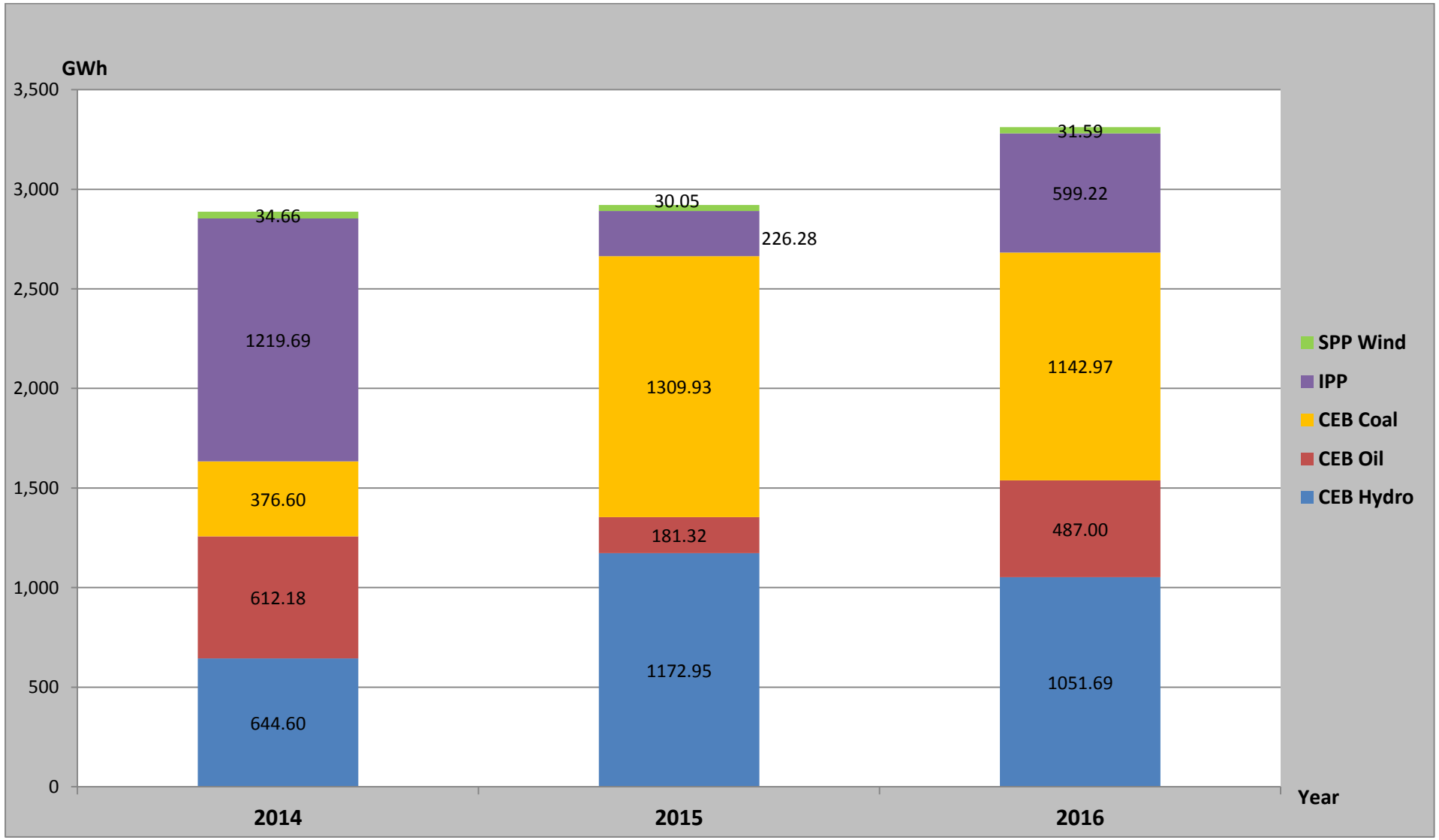
- **Total system failure occurred on 13th (from 14:24 hrs to 21:40 hrs)**
- ***Rotational load shedding has been conducted during 14th -17th and 20th -28th March 2016.***
- ***Highest Peak Demand:*** 2,318.9 MW on 10th March
- ***Lowest Peak Demand:*** 1,657.6 MW on 16th March (other than 13th March, where peak demand is 235.2 MW)
- ***Lowest Demand:*** 816.9 MW on 27th (other than 13th March, where lowest demand is 0 MW)

Load Curve for 10th March 2016 (Highest Night Peak Recorded during the month)

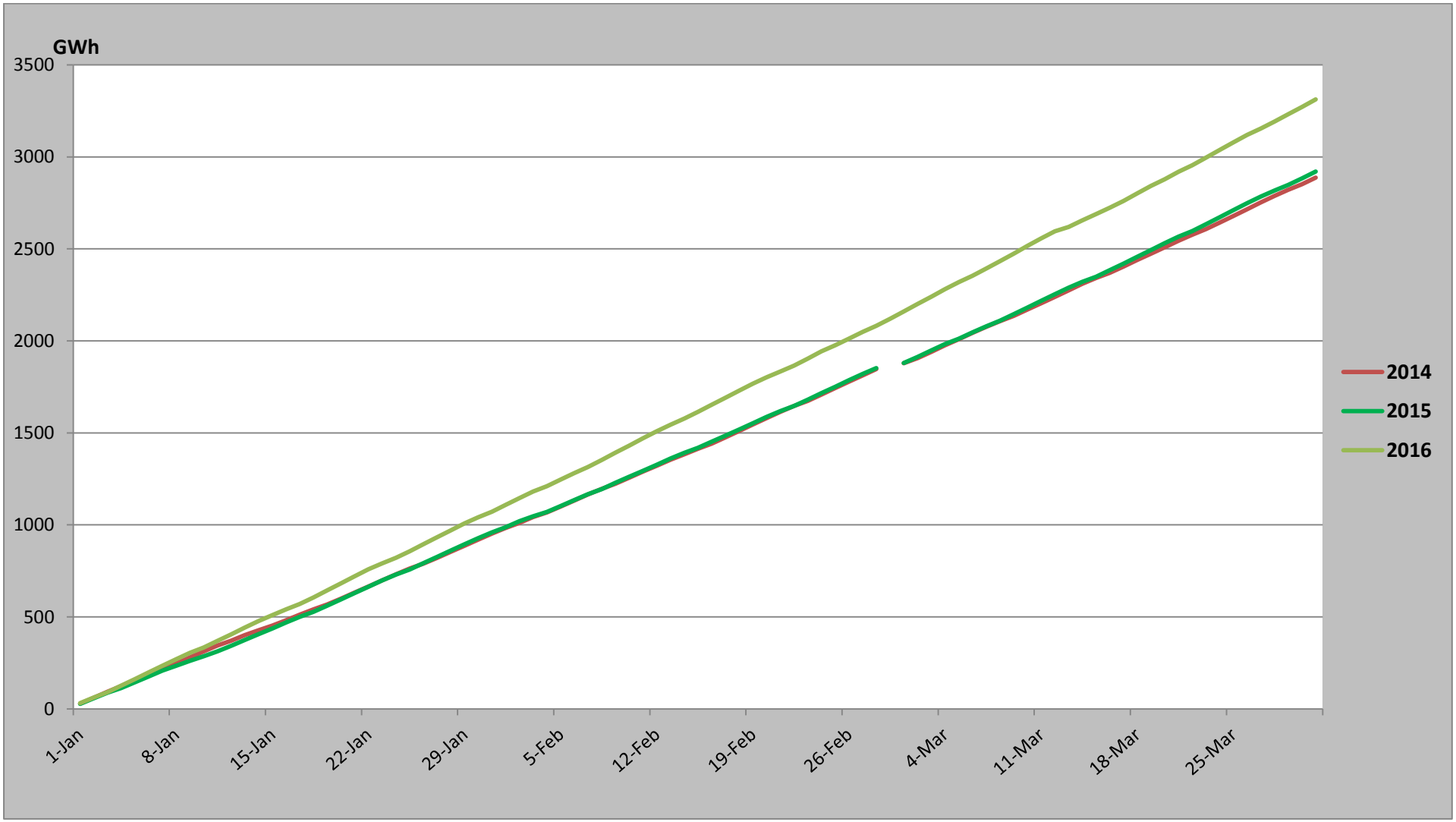


Note: *Contribution from Wind, Mini Hydro, Solar and Biomass is not included*

Comparison of Cumulative Dispatch from 1st January to 31st March

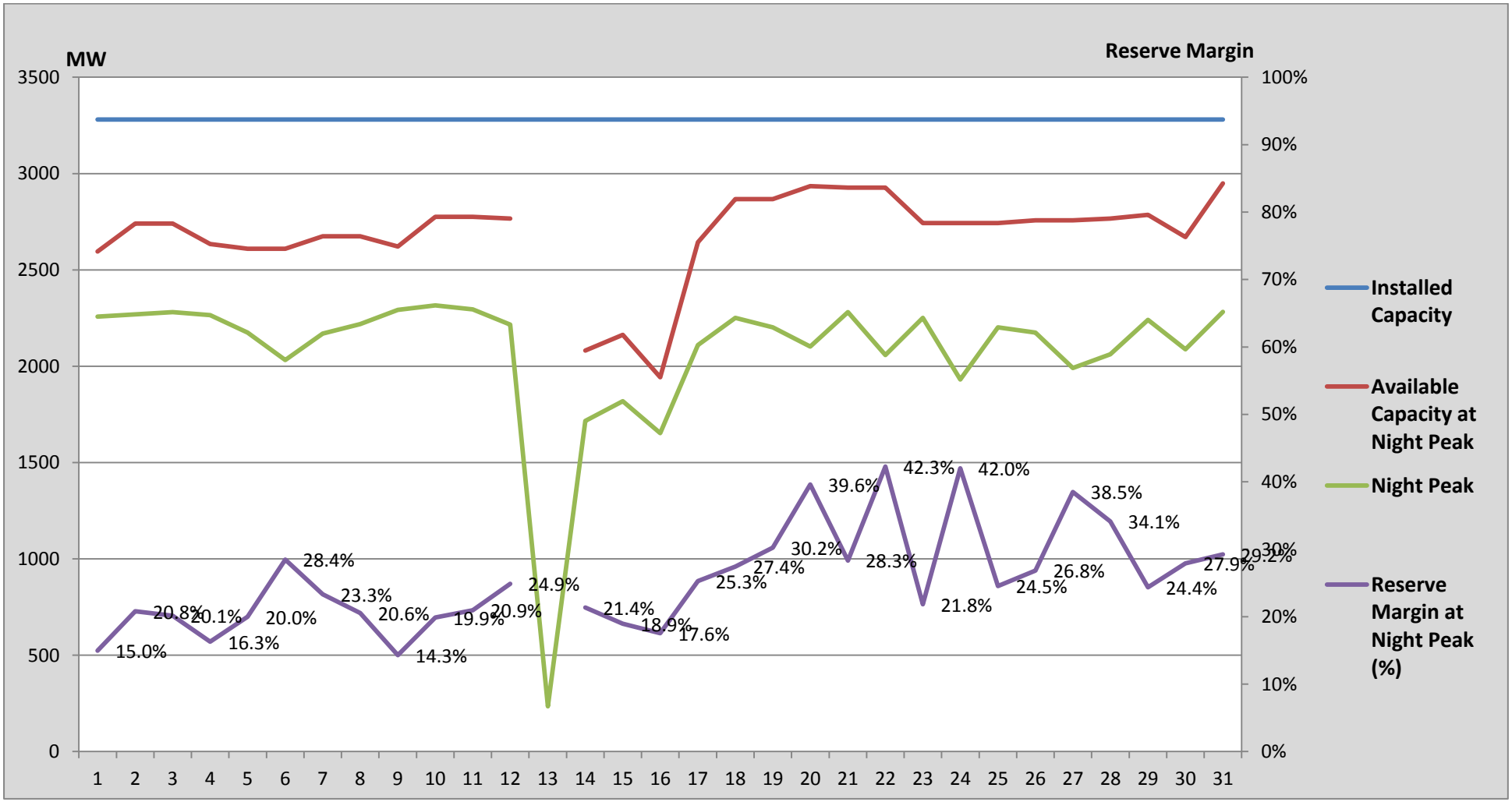


Comparison of Cumulative Dispatch until end of March



Note: *Generation from SPP Mini Hydro, Solar and Biomass is not included*

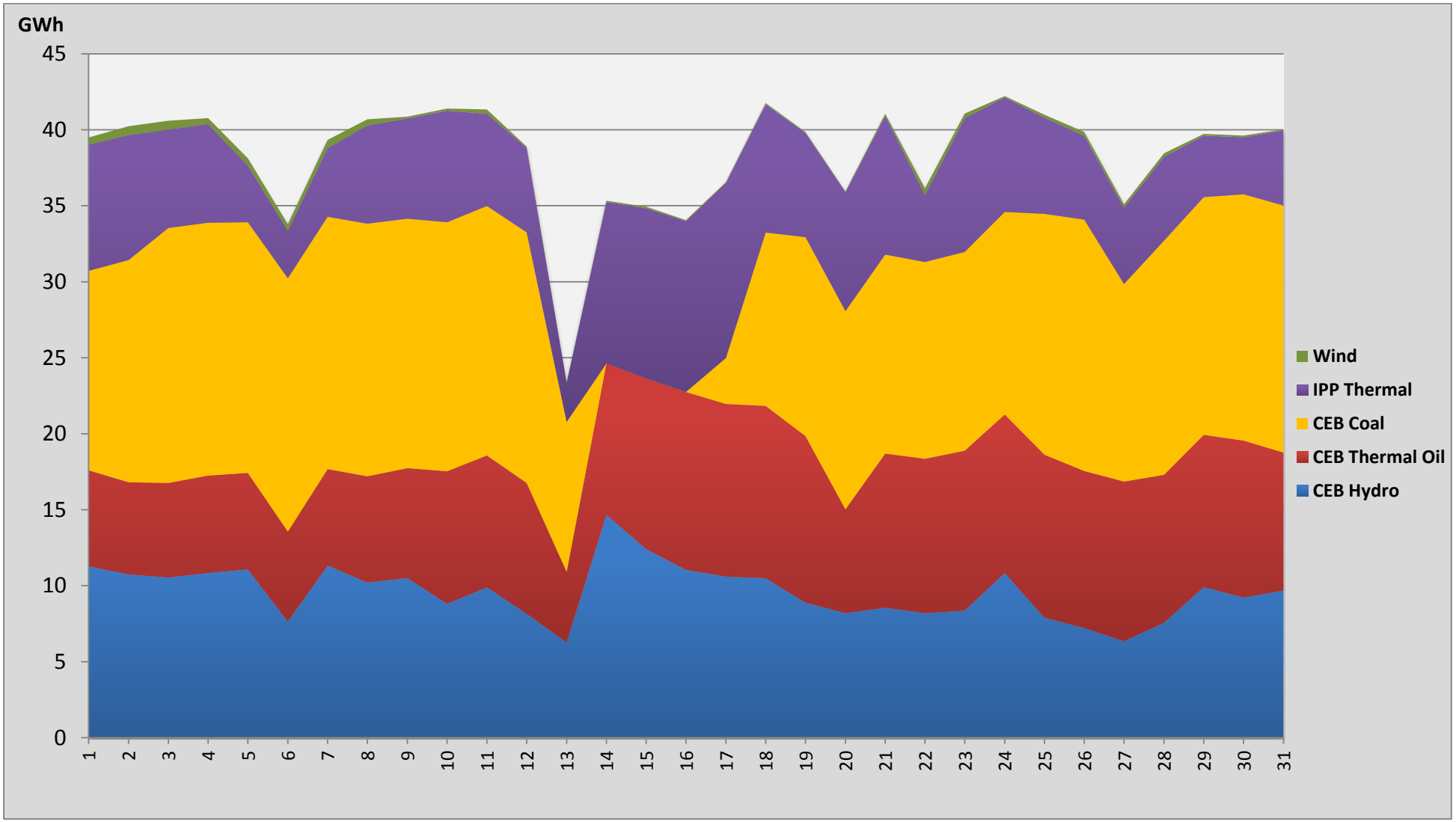
Generation Capacity Variation - March 2016



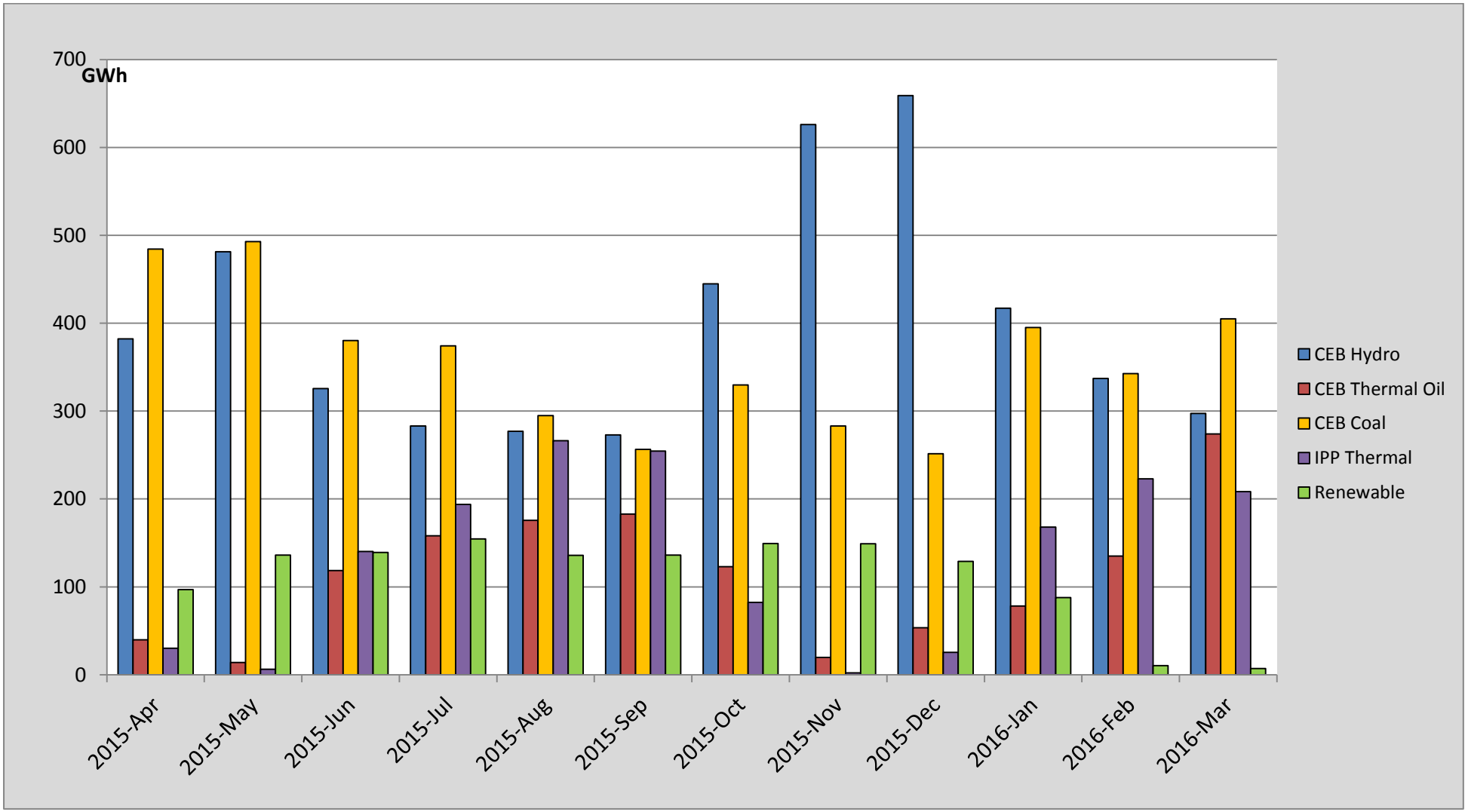
Note: *Contribution from Renewable plants is not included*

Total system failure occurred on 13th from 14:24 hrs to 21:40 hrs

Daily Variation of Generation Mix March, 2016



Variation of Generation Mix - last 12 months



Note: *Generation from Mini Hydro, Solar and Biomass power plants are not included in Renewable generation figures of February, 2016 and March, 2016.*