# GC/DC KPIs DASHBOARD

**Reporting Period : Autumn 2018**

## Capacity & Status

### Active Capacity For Season

| BM Units | Limit Level | Generation Capacity | Demand Capacity |
|---|---|---|---|
| <100MW | 2MW | 2057 | 2106 |
| 100 - 500 MW | 2% of declared Value | 168 | 172 |
| >500 MW | 10MW | 61 | 11 |

## Seasonal Status By BMU Type

| BMU Type | Active | Dormant |
|---|---|---|
| Miscellaneous | 11 | 3 |
| Capacity | 3 | 194 |
| Embedded | 107 | 38 |
| Directly Connected | 360 | 146 |
| Supplier | 1804 | 1382 |

## Limit Type

### Limits - Generation Capacity

| Limit Type | 2MW | 10MW | 2% Percent of Declared Values |
|---|---|---|---|
| Capacity | 3 | 0 | 0 |
| Miscellaneous | 11 | 0 | 0 |
| Embedded | 97 | 0 | 10 |
| Directly Connected | 194 | 53 | 113 |
| Supplier | 1752 | 8 | 45 |

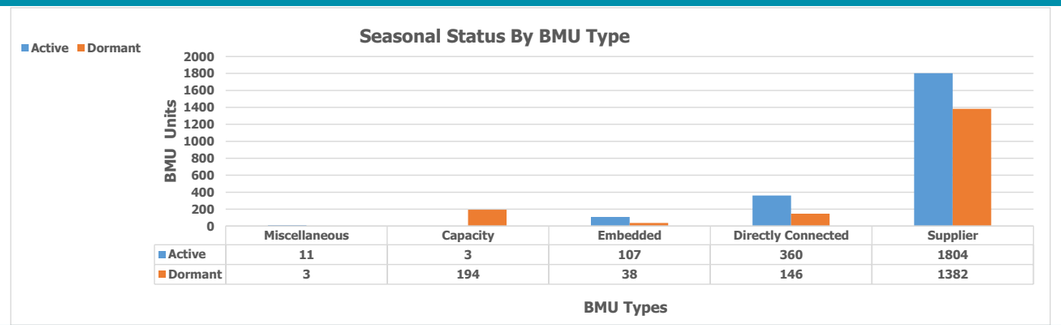
## Limits Exceeding & Breaching

### Exceeding / Breaching Summary

| | Exceeding Limits | Breaching | % Breaching / Exceeding |
|---|---|---|---|
| Generation Capacity | 4475 | 1102 | 24.63% |
| Demand Capacity | 69493 | 11793 | 16.97% |

## Current Tolerance Limits

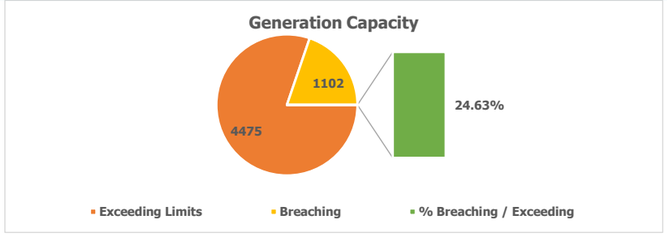
| | |
|---|---|
| *<100 MW* | 2MW |
| *100 - 500 MW* | 2% of declared value |
| *>500 MW* | 10MW |

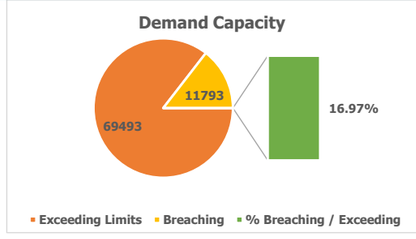



## Limit Type

### Limits - Demand Capacity

| Limit Type | 2MW | 10MW | 2% Percent of Declared Values |
|---|---|---|---|
| Capacity | 3 | 0 | 0 |
| Miscellaneous | 11 | 0 | 0 |
| Embedded | 105 | 0 | 2 |
| Directly Connected | 341 | 0 | 19 |
| Supplier | 1646 | 11 | 151 |



# Limits Exceeding & Breaching By BMU Type

## Generation Capacity - Exceeding & Breaching

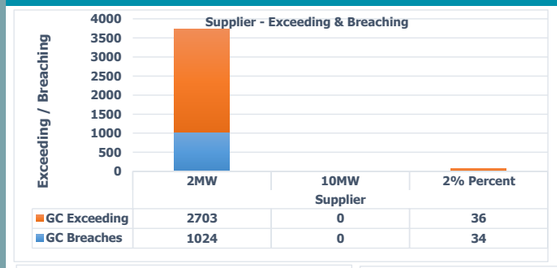
| BMU Type | Limit Type | GC Complaint | GC Exceeding | GC Breaches | Breaching / Exceeding Rate |
|---|---|---|---|---|---|
| Miscellaneous | *2MW* | 970 | 0 | 0 | 0.00% |
| | *10MW* | 0 | 0 | 0 | 0.00% |
| | *2% Percent* | 0 | 0 | 0 | 0.00% |
| Capacity | *2MW* | 273 | 15 | 0 | 0.00% |
| | *10MW* | 0 | 0 | 0 | 0.00% |
| | *2% Percent* | 0 | 0 | 0 | 0.00% |
| Embedded | *2MW* | 7337 | 745 | 12 | 1.61% |
| | *10MW* | 0 | 0 | 0 | 0.00% |
| | *2% Percent* | 732 | 2 | 2 | 100.00% |
| Directly Connected | *2MW* | 14641 | 645 | 30 | 4.65% |
| | *10MW* | 3828 | 284 | 0 | 0.00% |
| | *2% Percent* | 9517 | 45 | 0 | 0.00% |
| Supplier | *2MW* | 154196 | 2703 | 1024 | 37.88% |
| | *10MW* | 728 | 0 | 0 | 0.00% |
| | *2% Percent* | 3973 | 36 | 34 | 94.44% |
| Grand Total | | 196195 | 4475 | 1102 | |

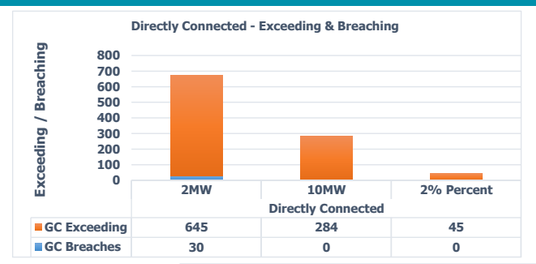
## Demand Capacity - Exceeding & Breaching

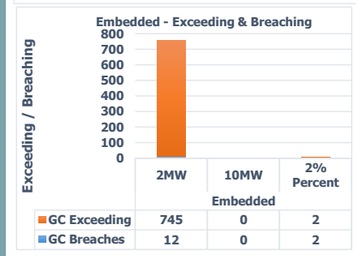
| BMU Type | Limit Type | DC Complaint | DC Exceeding | DC Breaches | Breaching / Exceeding Rate |
|---|---|---|---|---|---|
| Miscellaneous | *2MW* | 970 | 4 | 0 | 0.00% |
| | *10MW* | 0 | 0 | 0 | 0.00% |
| | *2% Percent* | 0 | 0 | 0 | 0.00% |
| Capacity | *2MW* | 273 | 0 | 0 | 0.00% |
| | *10MW* | 0 | 0 | 0 | 0.00% |
| | *2% Percent* | 0 | 0 | 0 | 0.00% |
| Embedded | *2MW* | 7887 | 820 | 2 | 0.24% |
| | *10MW* | 0 | 0 | 0 | 0.00% |
| | *2% Percent* | 182 | 0 | 0 | 0.00% |
| Directly Connected | *2MW* | 26433 | 1066 | 25 | 2.35% |
| | *10MW* | 0 | 0 | 0 | 0.00% |
| | *2% Percent* | 1553 | 11 | 0 | 0.00% |
| Supplier | *2MW* | 144380 | 66817 | 11210 | 16.78% |
| | *10MW* | 1001 | 70 | 56 | 80.00% |
| | *2% Percent* | 13516 | 705 | 500 | 70.92% |
| Grand Total | | 196195 | 69493 | 11793 | |

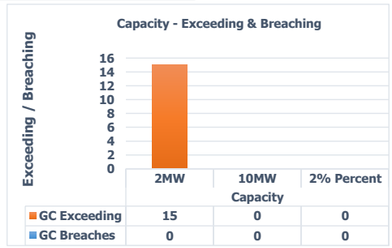
## 2018 vs 2017 Breaching Comparison

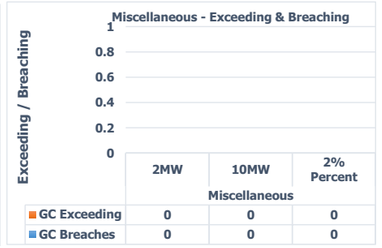
| | | Generation Capacity | | Demand Capacity | |
|---|---|---|---|---|---|
| BMU Type | Limit Type | *2018* | *2017* | *2018* | *2017* |
| Miscellaneous | *2MW* | 0 | 0 | 4 | 0 |
| | *10MW* | 0 | 0 | 0 | 0 |
| | *2% Percent* | 0 | 0 | 0 | 0 |
| Capacity | *2MW* | 15 | 8 | 0 | 0 |
| | *10MW* | 0 | 0 | 0 | 0 |
| | *2% Percent* | 0 | 0 | 0 | 0 |
| Embedded | *2MW* | 745 | 16 | 820 | 3 |
| | *10MW* | 0 | 0 | 0 | 0 |
| | *2% Percent* | 2 | 0 | 0 | 0 |
| Directly Connected | *2MW* | 645 | 3 | 1066 | 26 |
| | *10MW* | 284 | 0 | 0 | 0 |
| | *2% Percent* | 45 | 0 | 11 | 0 |
| Supplier | *2MW* | 2703 | 951 | 66817 | 6912 |
| | *10MW* | 0 | 0 | 70 | 2 |
| | *2% Percent* | 36 | 0 | 705 | 346 |

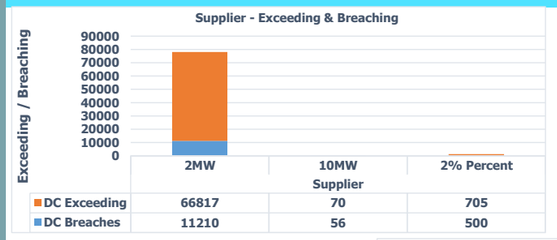


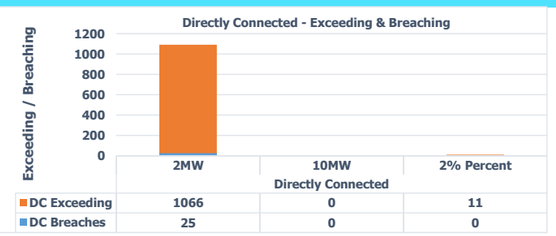



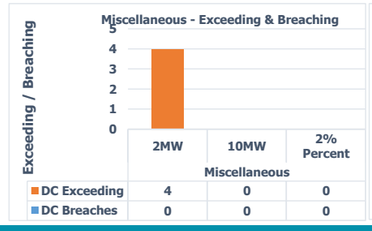



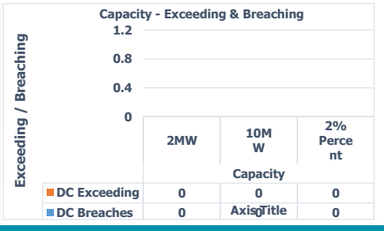



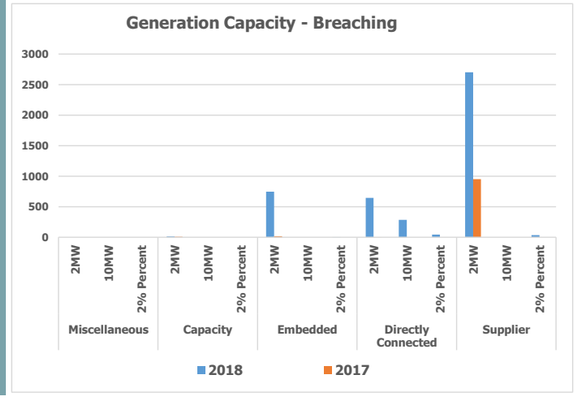



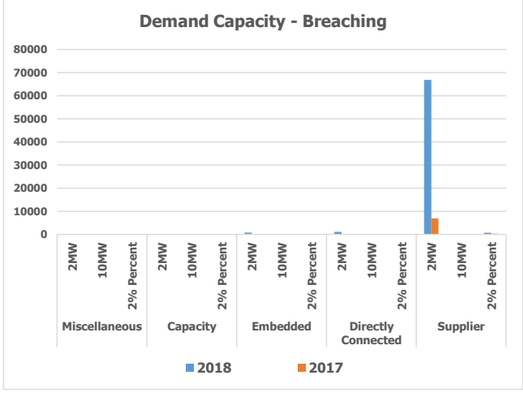






# GCDC Performance Analysis : 2MW Limits

## Mean Absolute Performance Error (MAPE)

| | | MAPE for 2MW | |
|---|---|---|---|
| | | *2018* | *2017* |
| **Demand Capacity** | *DC_Exceeding Error* | 219.7% | 162.2% |
| | *DC_Breachning Error* | 19.8% | 7.7% |
| | *DC Limit Advantage* | 199.9% | 154.4% |
| **Generation Capacity** | *GC_Exceeding Error* | 19.4% | 135.6% |
| | *GC_Breachning Error* | 12.5% | 35.5% |
| | *GC Limit Advantage* | 7.0% | 100.1% |

