

# TRANSMISSION GENERATION CONNECTION CAPACITY ASSESSMENT OF THE 2024 TRANSMISSION NETWORK (GCCA – 2024)

Reference No.: GP\_22/52

March 2022

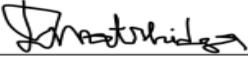

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|---|---|--|--|
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| Date: 30/03/2022  | Date: 30/03/2022  | Date: 31/03/2022   | Date: 31 Mar 2022  |

Table 3: Hydra cluster summary of results

Hydra 400kV Capacity = 16

| Substation   | Trfr Size (MVA) | No. of Trfrs | Transformation (kV/kV) | Installed Transformer (MVA) | Load  | Solar REIPPP Gen Allocated (MW) | BQ Issued & Valid | Wind REIPPP Gen Allocated (MW) | RMIPPPP (MW) | Transformer Limit (MW) | Substation Limit (MW) |
|--------------|-----------------|--------------|------------------------|-----------------------------|-------|---------------------------------|-------------------|--------------------------------|--------------|------------------------|-----------------------|
| Hydra        | 240             | 2            | 400/132                | 480                         | 50    | 319                             | 0                 | 79                             | 0            | 108                    | 17                    |
|              | 500             | 1            | 400/132                | 500                         | 0     | 75                              | 0                 | 235                            | 75           | 90                     |                       |
|              | 315             | 2            | 400/220                | 630                         |       | 0                               | 0                 | 0                              | 0            | 49                     | 0                     |
| Roodekuil    | 125             | 1            | 220/132                | 125                         | 5     | 0                               | 0                 | 0                              | 0            | 60                     | 0                     |
| Hydra D      | 500             | 1            | 400/132                | 500                         | 0     | 0                               | 0                 | 420                            | 0            | 55                     | 10                    |
| Ruigtevallei | 250             | 1            | 220/132                | 250                         | 38.93 | 75                              | 0                 | 0                              | 0            | 60                     | 0                     |
|              | 20              | 2            | 132/66                 | 40                          | 6     | 0                               | 3.6               | 0                              | 0            | 40                     |                       |