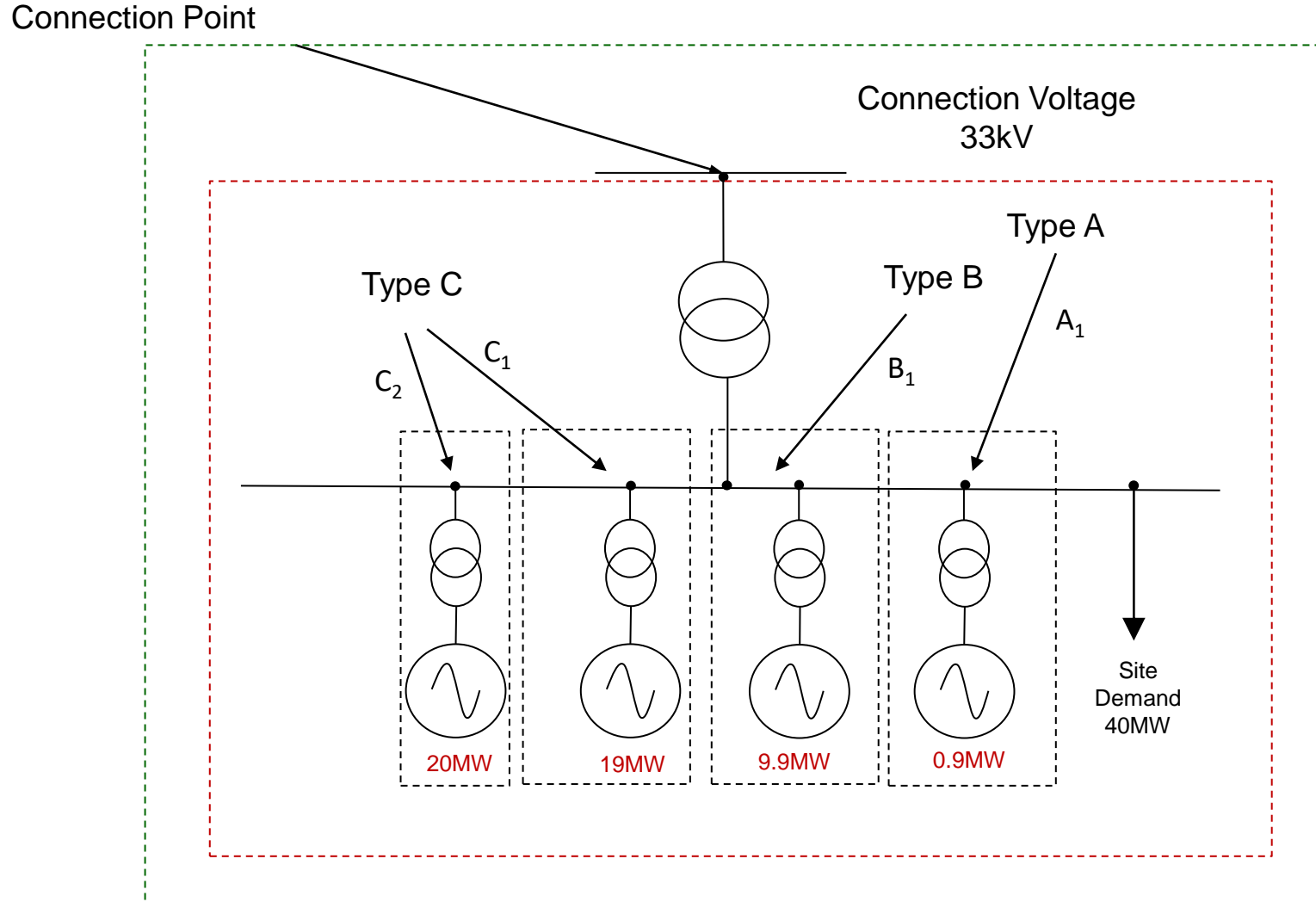


GC0117 – Registered Capacity

Antony Johnson – National Grid ESO
21 June 2022

Registered Capacity Example – Multiple Independent Synchronous Power Generating Modules within a private network with Demand



Example

- Power Station has four Synchronous Power Generating Modules (A_1 , B_1 , C_1 and C_2) and 40MW of site demand and 10MW of Power Station Demand
- Power Generating Module A1 = 0.9MW
- Power Generating Module B1 = 9.9MW
- Power Generating Module C1 = 19MW
- Power Generating Module C2 = 20MW
- Total Generation = 49.8MW

- Power Station Demand = 10MW

- **Total Generation 49.8MW less Power Station Demand (10MW)) = 39.8MW**

- Site Demand = 40MW

- **Power Station Registered Capacity = 39.8MW – Small Power Station in E&W**