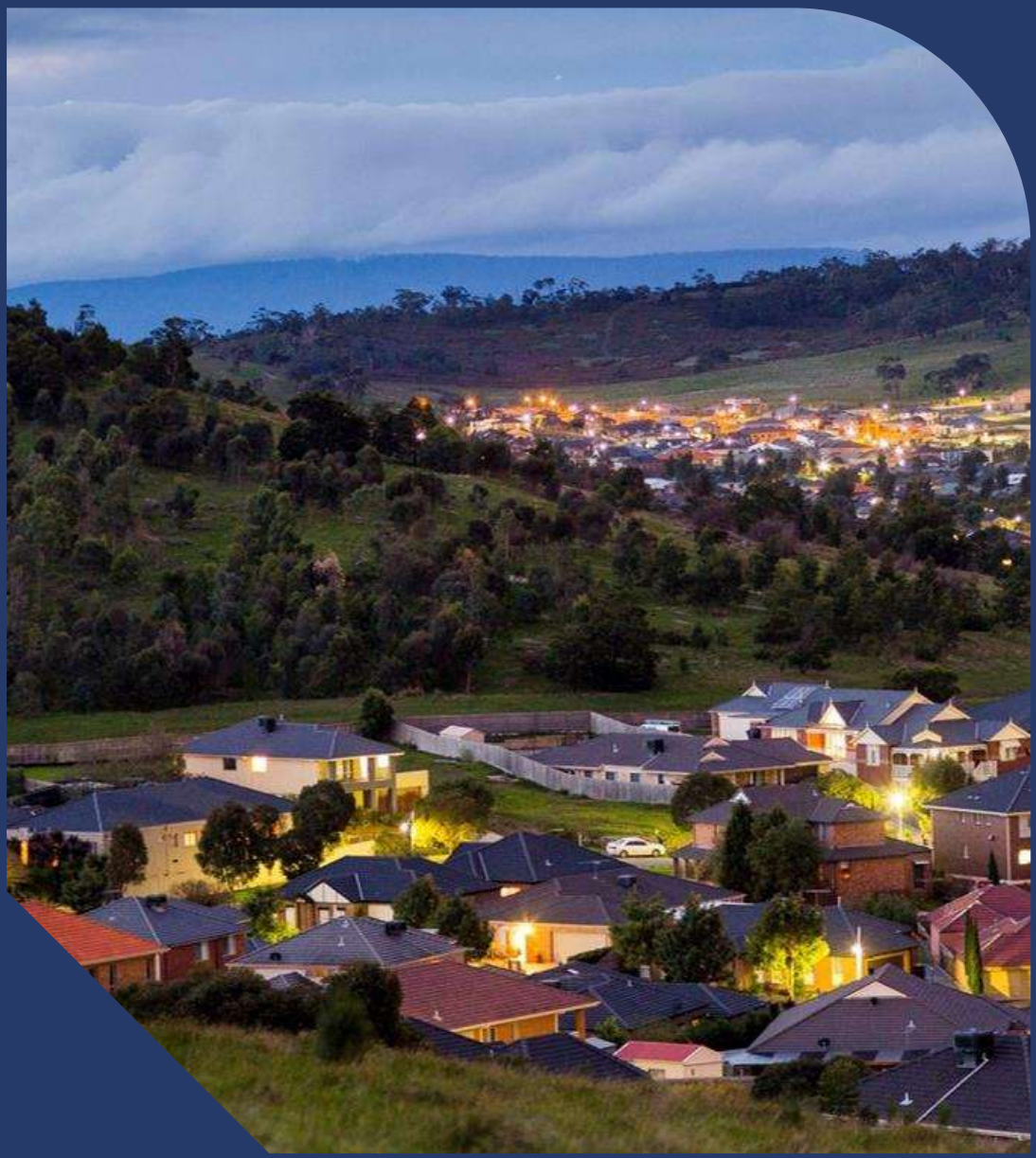
AusNet

Register of Completed Embedded Generation Projects ≥1.5MW

2025

Tuesday, 28 October 2025



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Introduction

This register has been prepared to comply with clauses 5A.D.1A and 5.18B of the National Electricity Rules (NER). It includes the NER prescribed details of all completed embedded generation projects with a capacity of 1.5MW and above that have connected to the AusNet Services distribution network in the 5-year period prior to 30 October 2025

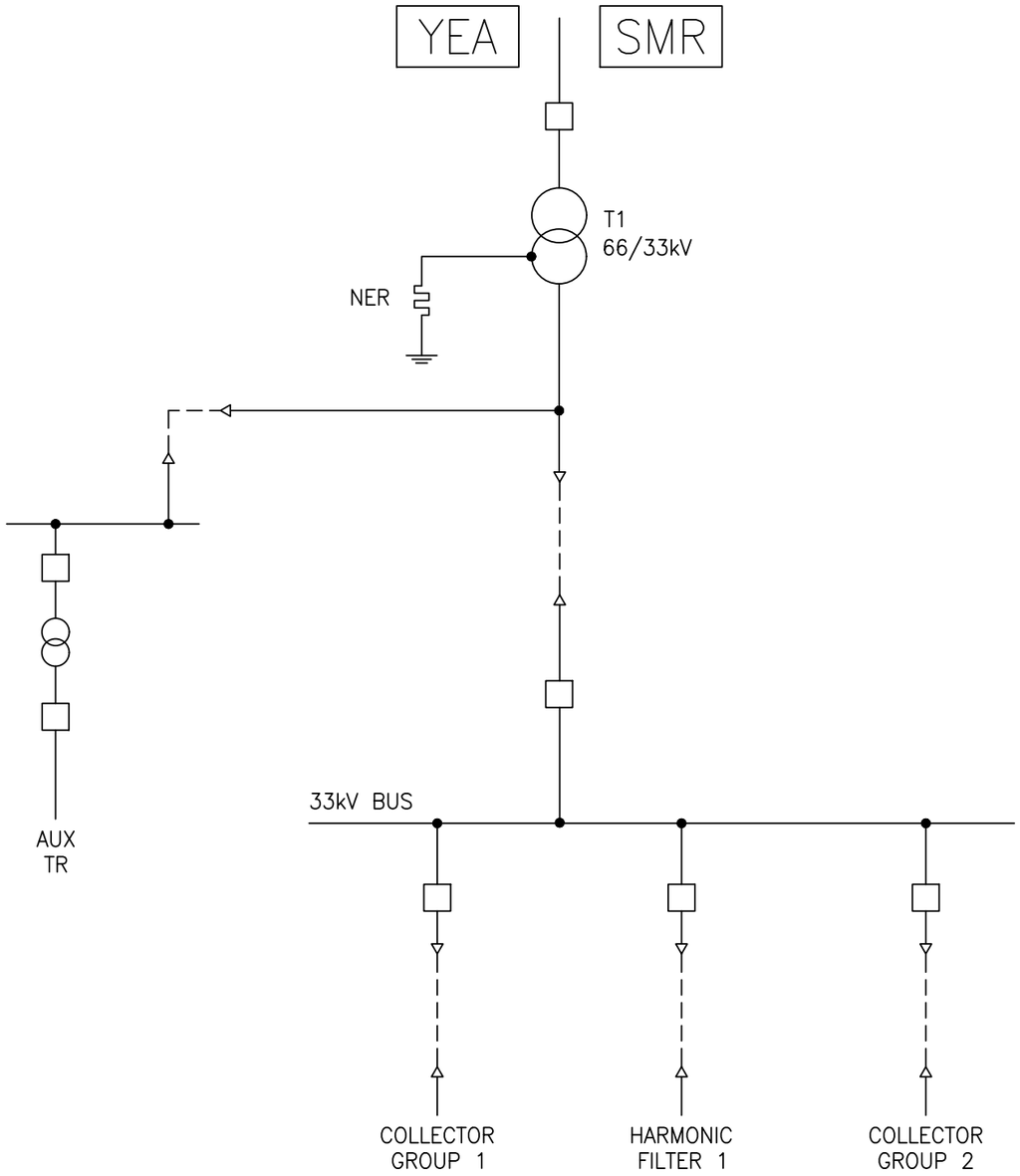
Completed Projects

Year of connection	Gen Id	Location	Connection Voltage	Technology of generating unit	Maximum power generation capacity	Contribution to fault levels	Transformer size and rating	Protection systems and Communications Systems	Voltage control and reactive power capability
2020	WF_CT	Seymour	66	Asynchronous Make: Vestas Model: V136-3.6MW	55MW	Three phase fault current, approx. 0.55 kA	70MVA	Remote Trip and SCADA	Voltage control: 5% voltage droop with a 1.02pu control target Reactive power capability: AAS
2020	SF_WI	Benalla	66	Asynchronous Generator Make: Huawei Model: SUN2000-90KTL	85MW	Three phase fault current. 1.5kA; Single phase to ground fault current, 1.5kA; Phase to phase to ground fault current, 1.5kA	100MVA (33/66)	Remote Trip and SCADA	Voltage control: 5% voltage droop with a 1.02pu control target Reactive power capability: AAS Project #5 Benalla Asynchronous Generator Make: Huawei Model: SUN2000-90KTL 85MW Three phase fault current. 1.5kA; Single phase to ground fault current, 1.5kA; Phase to phase to ground fault current, 1.5kA 100MVA (33/66) Refer to the connection diagram within this document Remote Trip and SCADA Voltage control: Voltage droop control (4%), target voltage of 1.03 pu @ GNTS Reactive power capability: 33.6MVAr (Q injection and absorption) at 40°C. 30.26 MVAr (Q injection and absorption) at 50°C. Q injection: when the connection point voltage is in the range of 83.97%-88.99% of nominal voltage. Q absorption: when the connection point voltage is in the range of 114%-117% of nominal voltage
2021	SF_GW	Glenrowan West	66	Asynchronous Generator Make: SMA Sunny Central Model: SC 2750EV	110MW	Three phase fault current, 2.0kA; Single phase to ground fault current, 2.0 kA; Phase to phase to ground fault current, 2.0 kA	142MVA, (33/66)	Remote Trip and SCADA	Voltage control: Voltage droop control (4%), target voltage of 1.03 pu @ GNTS Reactive power capability: 43.45MVAr (Q injection and absorption) at 35°C. 39.5 MVAr (Q injection and absorption) at 50°C.
2021	SF_WW	Wodonga	22	Asynchronous: 40X SMA SHP 75-10TL string PV inverters controlled via SMA inverter manager	3MW	3 phase = 198.6A, 1 phase = 93.38A	2 x 1MVA 22kV/433V	Remote Trip and SCADA	Power factor control at -0.95 at PoC . Q base 2MVAR

Year of connection	Gen Id	Location	Connection Voltage	Technology of generating unit	Maximum power generation capacity	Contribution to fault levels	Transformer size and rating	Protection systems and Communications Systems	Voltage control and reactive power capability
2021	MG_GW	Morwell	22	Solar inverter: ABB (make), PVS-100-TL (model). Diesel Synchronous generator: Cummins C1675D5. Biogas Synchronous generator: Jenbacher Type2. Hydro generator -induction generator: Teco Hydro AEJE-WT	3.05MW	3 phase = 0.34k A, 1 phase = 0.043kA	10MVA (4X 22kV/415V), 0.5MVA(22kV/415V)	Direct trip and SCADA	Solar and Diesel generators: power factor control at -0.95 (lagging) at PoC
2022	SF_WA	Wangarrata	66	Solar inverter : SMA 220	22MW	Maximum Fault Level = 408 MVA X/R = 2.9	33/66kV 30MVA	Remote Trip and SCADA (TBC)	WNSF will be operating in Voltage Droop Control under normal operating conditions with a droop of 4% (on Qbase) and target voltage of 1.03p.u at the connection point. The dead band is set to zero.
2024	BESS_PI	Phillip Island	22		5MW	Maximum Fault Level = 90.44 MVA X/R = 3.964	6.5MVA 22/0.66kV	Inter-trip protection via ADSS.	Voltage support: Voltage droop control with 1.00pu setpoint and 5% droop on Qbase=1.975MVAr
2025	SF_PR	Barnawartha	22		4.95MW	3 phase = 0.17k A, 1 phase = 0.15kA	4.95MVA 22/0.55kV (two 0.55kV windings connected in parallel in LV side)	Intertrip protection	Power factor control at -0.98 at PoC

Single Line Diagrams

WF_CT – INTERCONNECTION DIAGRAM



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SKETCH
WF_CT
INTERCONNECTION DIAGRAM

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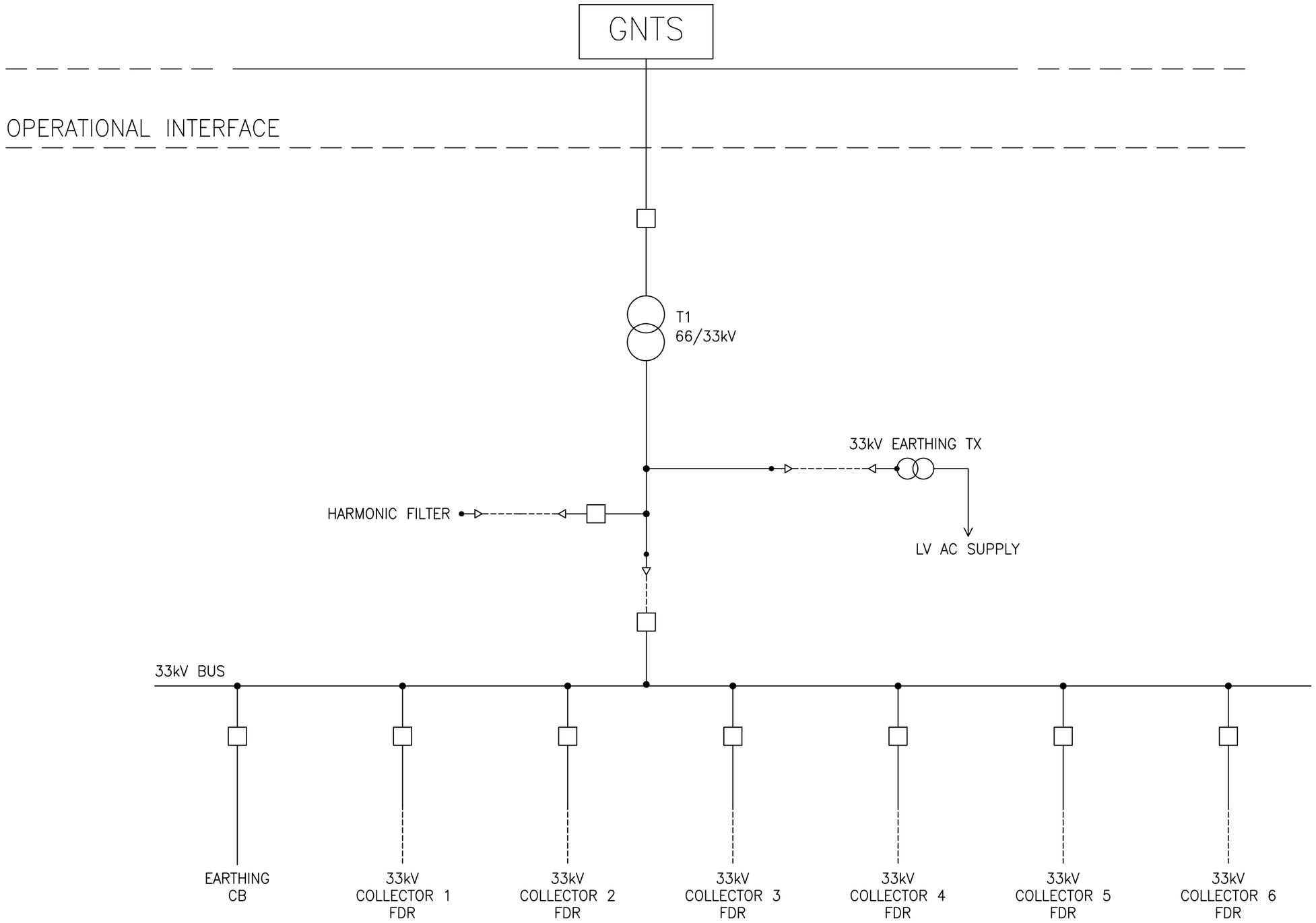
SF_WI – INTERCONNECTION DIAGRAM



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SKETCH
SF_WI
INTERCONNECTION DIAGRAM

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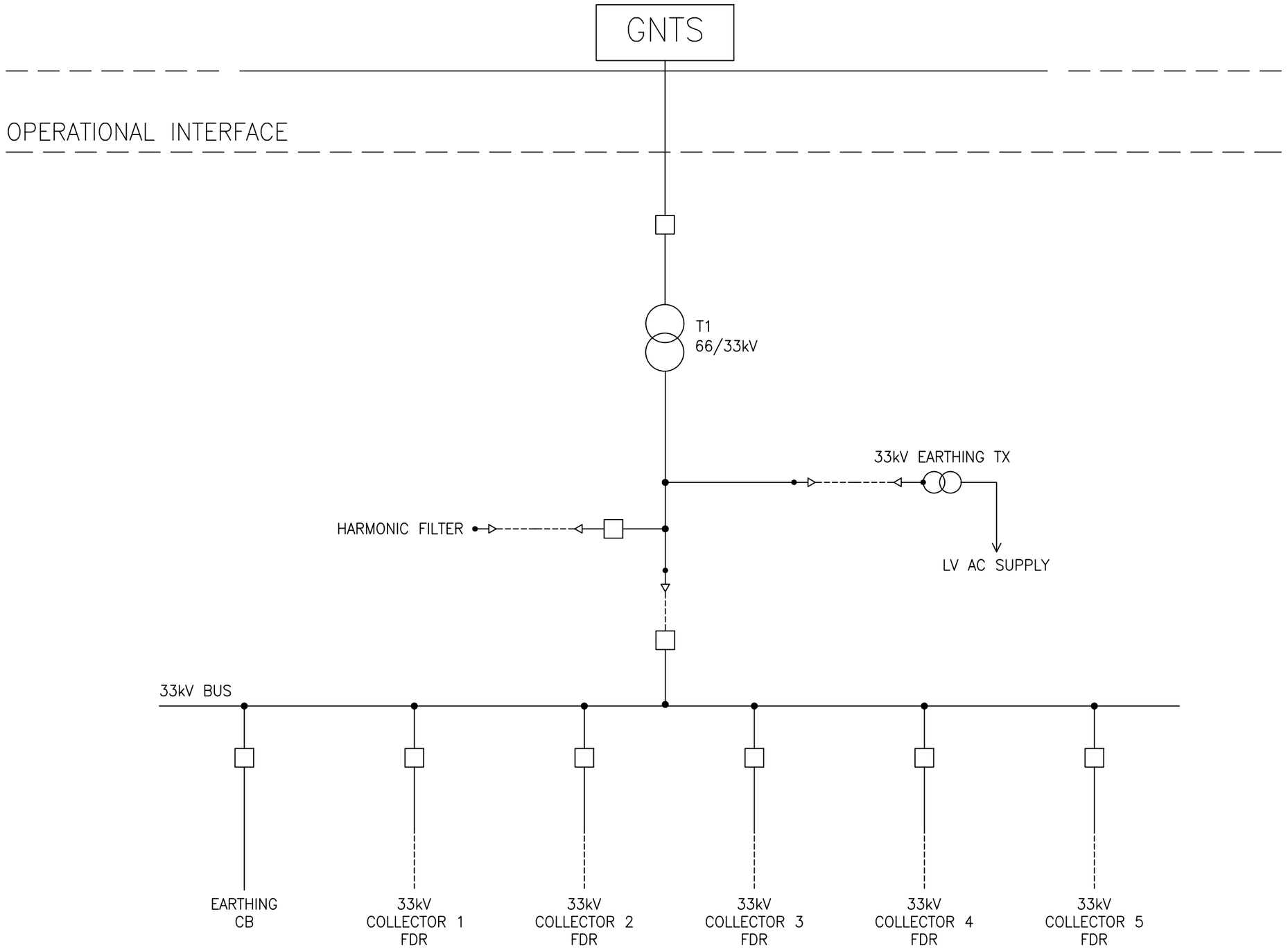
SF_GW – INTERCONNECTION DIAGRAM



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SKETCH
SF_GW
INTERCONNECTION DIAGRAM

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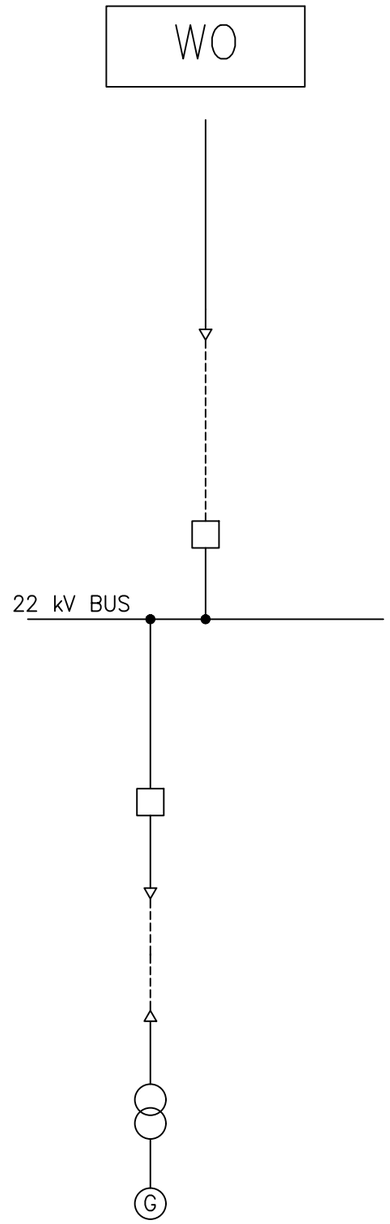
SF_WW – INTERCONNECTION DIAGRAM



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SKETCH
SF_WW
INTERCONNECTION DIAGRAM

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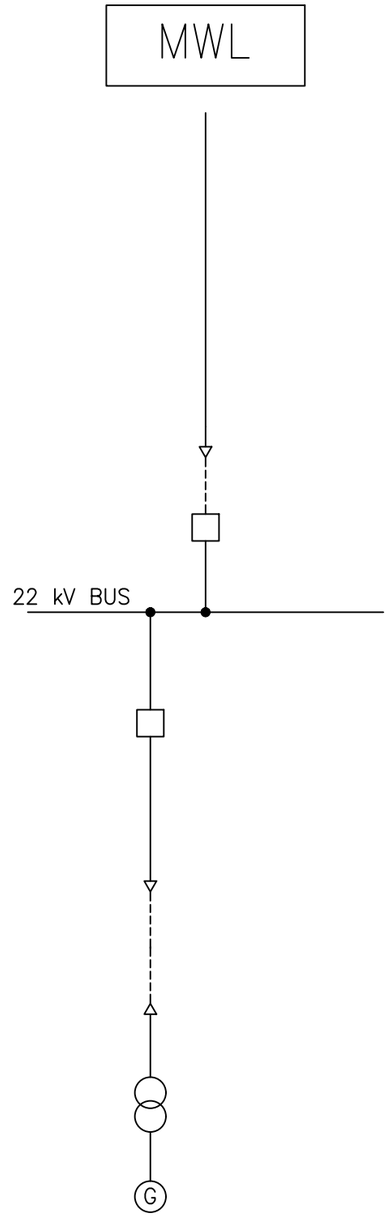
MG_GW – INTERCONNECTION DIAGRAM



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SKETCH
MG_GW
INTERCONNECTION DIAGRAM

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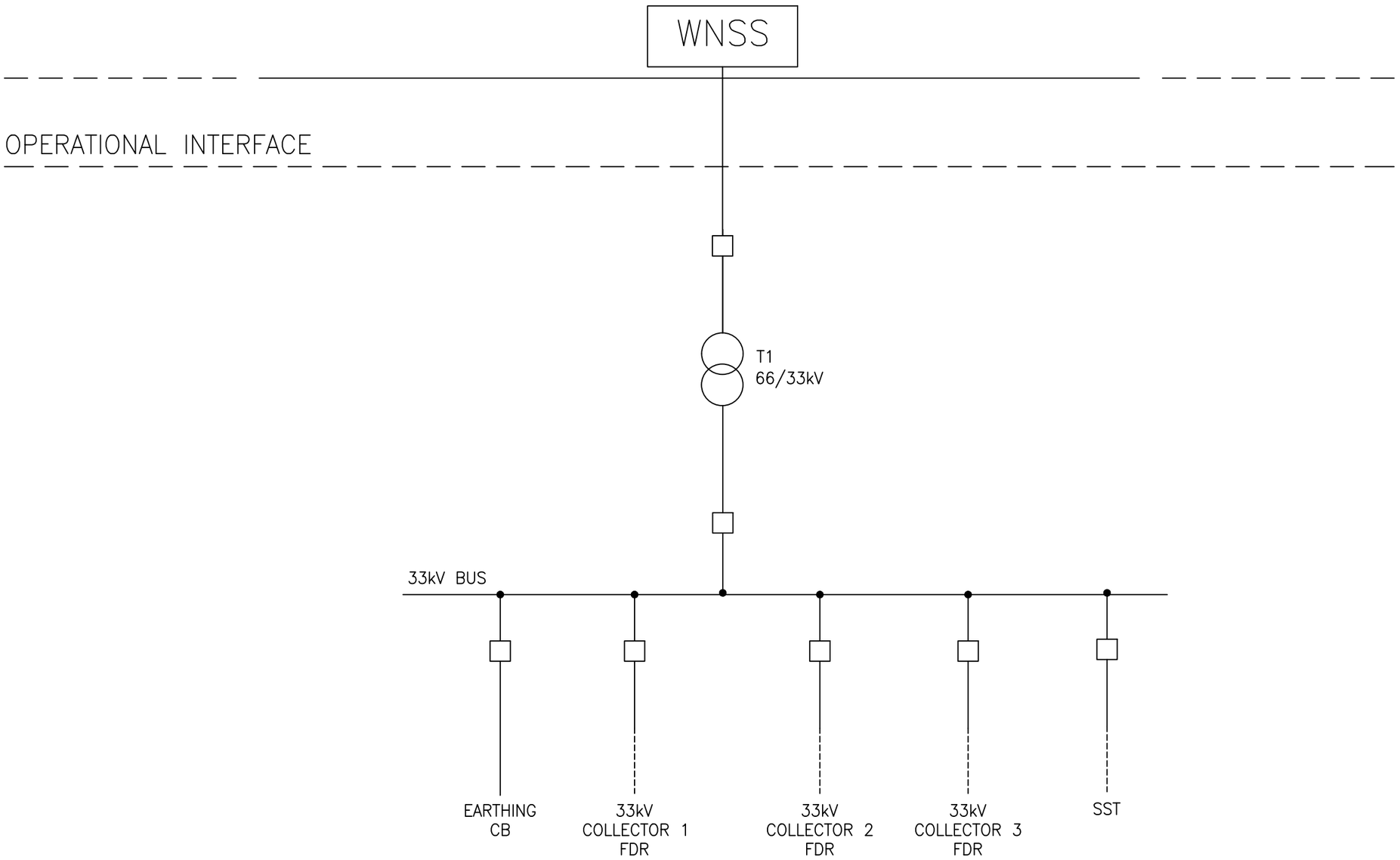
SF_WA – INTERCONNECTION DIAGRAM



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SKETCH
SF_WA
INTERCONNECTION DIAGRAM

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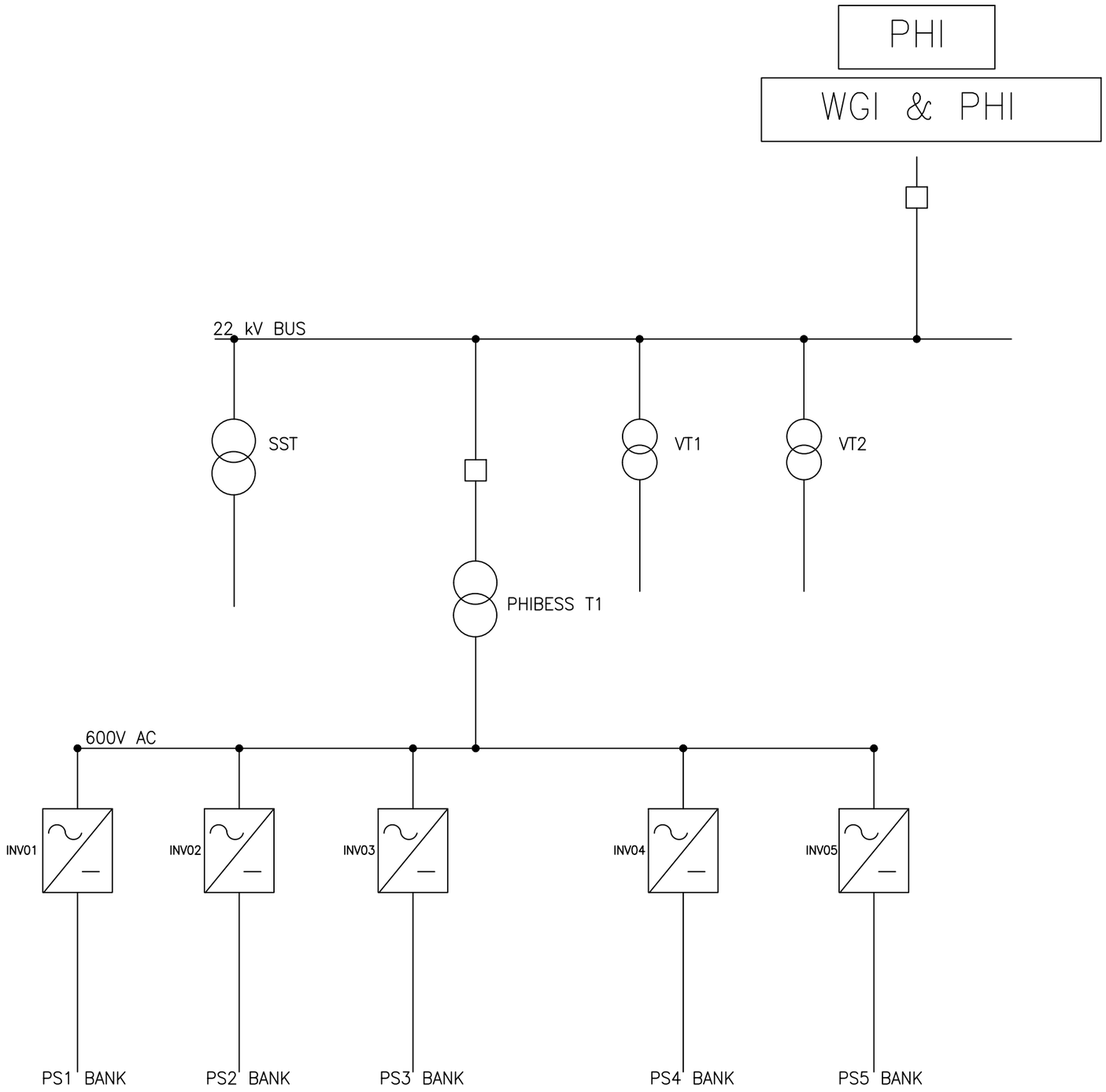

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SKETCH
BESS_PI
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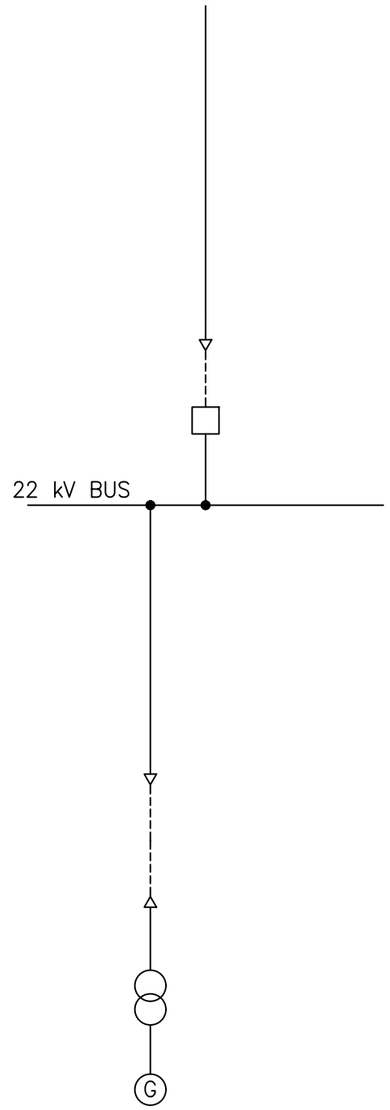
SF_PR – INTERCONNECTION DIAGRAM

BWA

BWA & WO



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