

# Off Grid: Diesel Recharge

ENERGY STORAGE CASE STUDIES

Installer

CEI Services

Location

Upper Yarra Dam, Victoria

Application

Off-Grid (Diesel Recharge)

SITE 1: Upper Dam Wall	SITE 2: Lower Dam Wall
System Size 198kWh battery storage Three Phase Backup Diesel Generator	99kWh battery storage Three Phase Backup Diesel Generator
Battery storage 60 x LiFe12033P 120VDC 3.3kWh LFP Battery Modules	30 x LiFe12033P 120VDC 3.3kWh LFP Battery Modules
Inverters 3 x Selectronic SPLC1202 20kW SP PRO Battery Inverters.	3 x Selectronic SPLC1200 20kW SP PRO Battery Inverters

Upper Yarra Dam increases power efficiency with PowerPlus' 120V Lithium Ferro Phosphate battery.

During strengthening and construction works, the main high voltage lines were removed leaving the Upper Yarra Dam site needing on site power support.

The designed and installed off-grid system, includes two self-containerised systems across two sites allowing diesel recharge to not only support the generator but operate at an optimum capacity.

Support from PowerPlus LiFe12033P batteries reduced fuel consumption and increased quiet times on site providing an efficient and reliable work site.

