

Water Pumping Plant goes Off-Grid

ENERGY STORAGE CASE STUDIES

Installer

Harvey Water

Location

Kemerton, WA

Application

Off-Grid

System Size

46.8kW Solar PV
99kW Battery Storage
Three Phase

Battery storage

30 x LiFe12033P
120VDC 3.3kWh LFP
Battery Modules
x2 powerlink modules

Solar panels

152 x Solarwatt 320W
Solar Modules

Inverters

3x Selectronic SP Pro
1202 Battery Inverter
(3 Phase),
2x Fronius 20kW
Symo Solar Inverter

Taking renewable steps to strengthen the future of sustainable water-services.

A new raw water pump is being built next to the Kemerton Lithium Refinery (near Bunbury, WA). Managed by Harvey Water, it is designed to be solely reliant on renewable strategies and products. With this mindset, the system design allows for 200 hours of storage autonomy without solar input through the 99kWh lithium battery system. Such a degree of autonomy will allow operations to continue over prolonged periods when environment conditions are affected.

With two Powerplus Energy Powerlink modules integrated, remote monitoring is easily overseen to keep track of live battery conditions and technical data.



Photos courtesy of Nic Stone (Jan 2022)