

The challenges and opportunities of battery manufacturing in Western Australia

C. Edwards¹,

1. Cameron Edwards, Founder and Director, Bardan Cells, Perth, WA, 6167.

Email: cameron@bardancells.com

Keywords: battery manufacturing, lithium ferro phosphate, micro factory, battery cells

ABSTRACT

Founded in 2020, Bardan Cells is a joint venture collaboration between AMTE Power PLC (UK) and InfraNomics (Australia) who are on track to build the first Australian battery cells micro factory in Perth, Western Australia. The battery cells will initially be for the domestic market, with commercial volumes anticipated from 2023 and future expansion to overseas markets.

Bardan Cells is focusing on manufacturing LFP (Lithium Ferro Phosphate) cells in WA, and this has raised several challenges and opportunities including:

- availability of expertise
- electro chemistry
- advanced manufacturing
- sourcing quality raw materials
- local buyers and commercialisation
- training
- export markets
- availability of renewable energy
- policy environment to introduce more renewables

Cameron will explain next steps in this process, why battery manufacturing hasn't occurred yet and provide a status update on the progress of the local manufacturing facility.