



ThorionEnergy

Overview Presentation

Co-founders Bradley Appleyard and Martin Law



Our company



Formed in
2017



Based
Perth, WA



Public unlisted
**Anticipated IPO
2025**



First products to

Market:



Cyclone proof Chloride- Vanadium Redox Flow Battery

(Region D rated to
317km/h)



Cyclone proof Standalone Power Station

(Region D rated to
317km/h)

R&D

Projects:

**Scalable - long duration
energy storage.**



Battery module
optimisation



Localised modular
electrolyte production



Version 2 battery
module (multi mega
watt)

V40 Battery Module



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- ❖ Up to 70% more energy storage and 20-degree higher operating temperature.
- ❖ Electrolyte lasts indefinitely, non-flammable. (aqueous solution)
- ❖ 100% of vanadium electrolyte can be reused at the end of project life.
- ❖ VRFB manufacturing releases 78% less carbon emissions.
- ❖ 6 or 12kW, 40kW/h (version 2, 20kW/70kW/h)
- ❖ Region D rated - (317km/h)
- ❖ Bunded module - electrolyte containment and scalable.
- ❖ Designed for shipping container integration, (7 x battery modules) standard doorways.



Standalone Power Station (SAPS)



- ❖ Modular and scalable
- ❖ Region D rated - (317km/h)
- ❖ 32kW Solar - 4kw Wind - 80kW/h
- ❖ Ballasted construction - minimal site works required.
- ❖ Easily transported and relocatable.

Business model



Centralised IP
& component supply

Local flow partner

Channel to market
& capability

Partnership controlled by Thorion Energy through equity or contact

Sells, assembles, installs & maintains



Revenue flows



Codified flow pack

Rapid scalability, significant reduction in capital, rapid growth and revenue



Distribution of profits

From flow channel/ flow partners (direct sales equity or contract)



Power Purchase Agreements

PPA/Rent/Hire agreements earning revenue 24/7



Battery modules

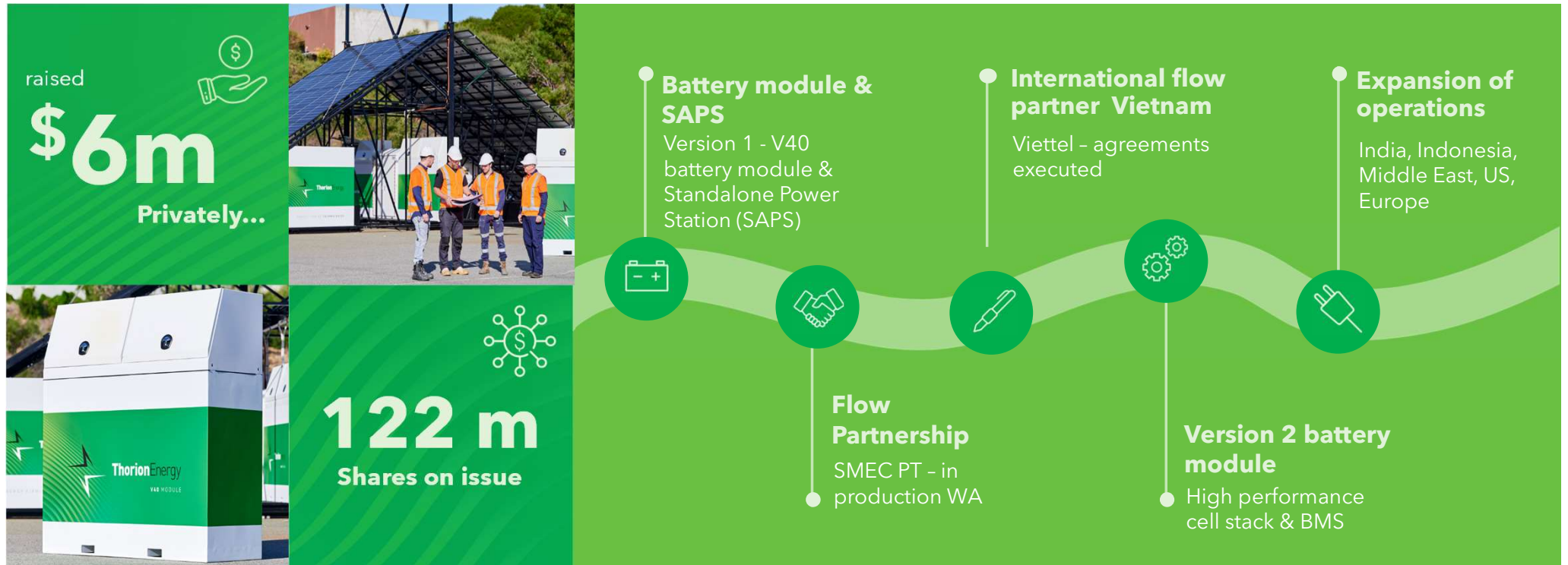
Sale or Power Purchase Agreements (PPA/Rent/Lease)



Standalone Power Stations

Sale or Power Purchase Agreements (PPA/Rent/Lease)

Capital and Project Plan





Project and R&D Activity

- ❖ Region D rated - V40 Battery module (Version 1 - in production)
- ❖ Region D rated - V40 & V80 Standalone Power Station (version 1 - in production)
- ❖ Current projects - Second Fortune Gold mine, IGO Silver Knight Camp, Widgie Nickel, Norseman Airport, SMEC PT, Cherratta Lodge.
- ❖ Modular localised electrolyte production (in progress Murdoch University)
- ❖ Version 2 battery module - multi megawatt long duration energy storage (R&D project)
- ❖ Project Development (R&D) - remote communities, community batteries, EV charging (power management) long duration utility scale energy storage, peak shifting, mining electrification.
- ❖ Horizon Power R&D projects in discussion



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