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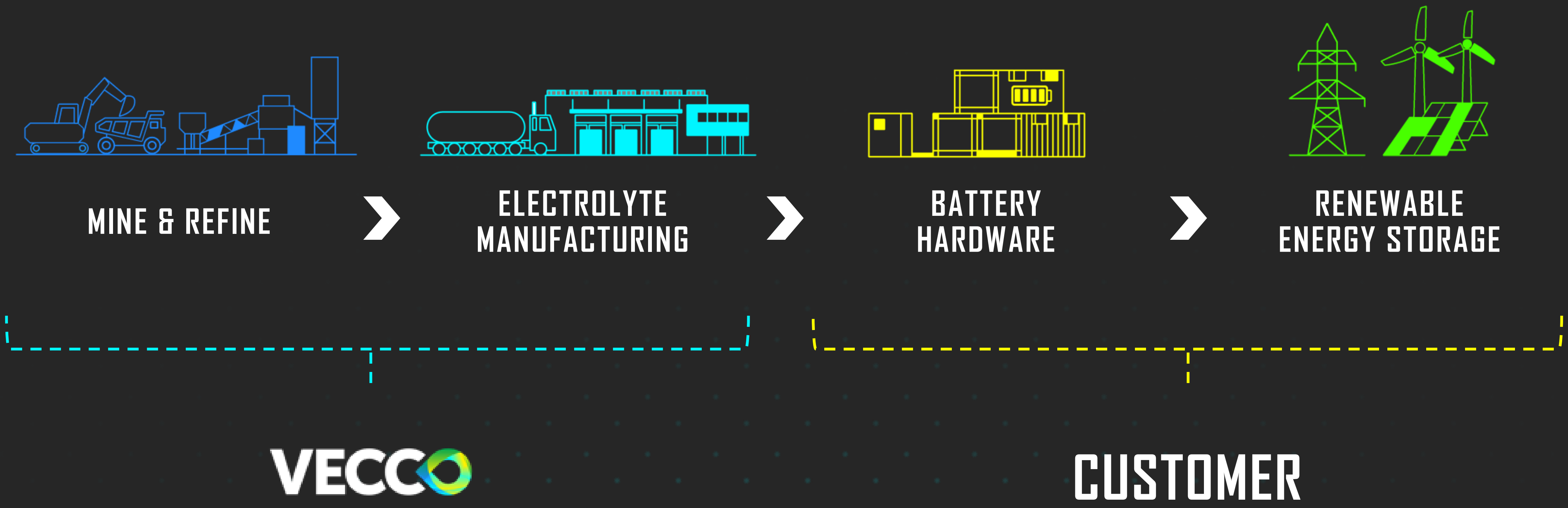
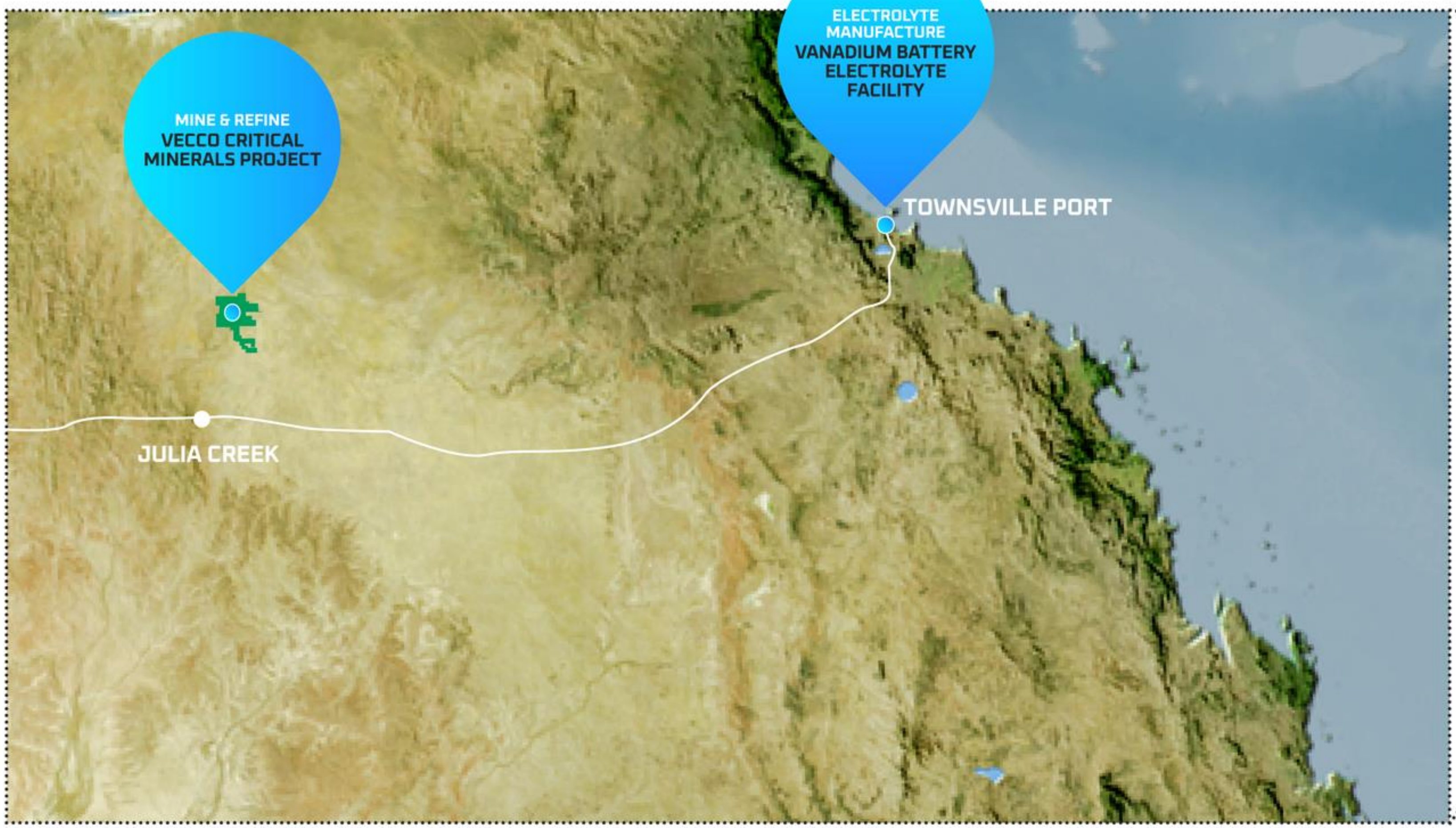

MINE & REFINE
ELECTROLYTE MANUFACTURING
BATTERY HARDWARE
RENEWABLE ENERGY STORAGE
CUSTOMER

VECCO CRITICAL MINERALS

MINE LOCATION



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AUSTRALIAN SUPPLY CHAIN

ENERGEX BATTERY PROJECT

Energy Queensland engaged Vecco in partnership with Sumitomo Electric to supply a vanadium flow battery, with Vecco produced electrolyte.

- First collaborative project with QLD Government, Sumitomo Electric & Vecco
- First step in the vanadium battery supply chain for QLD

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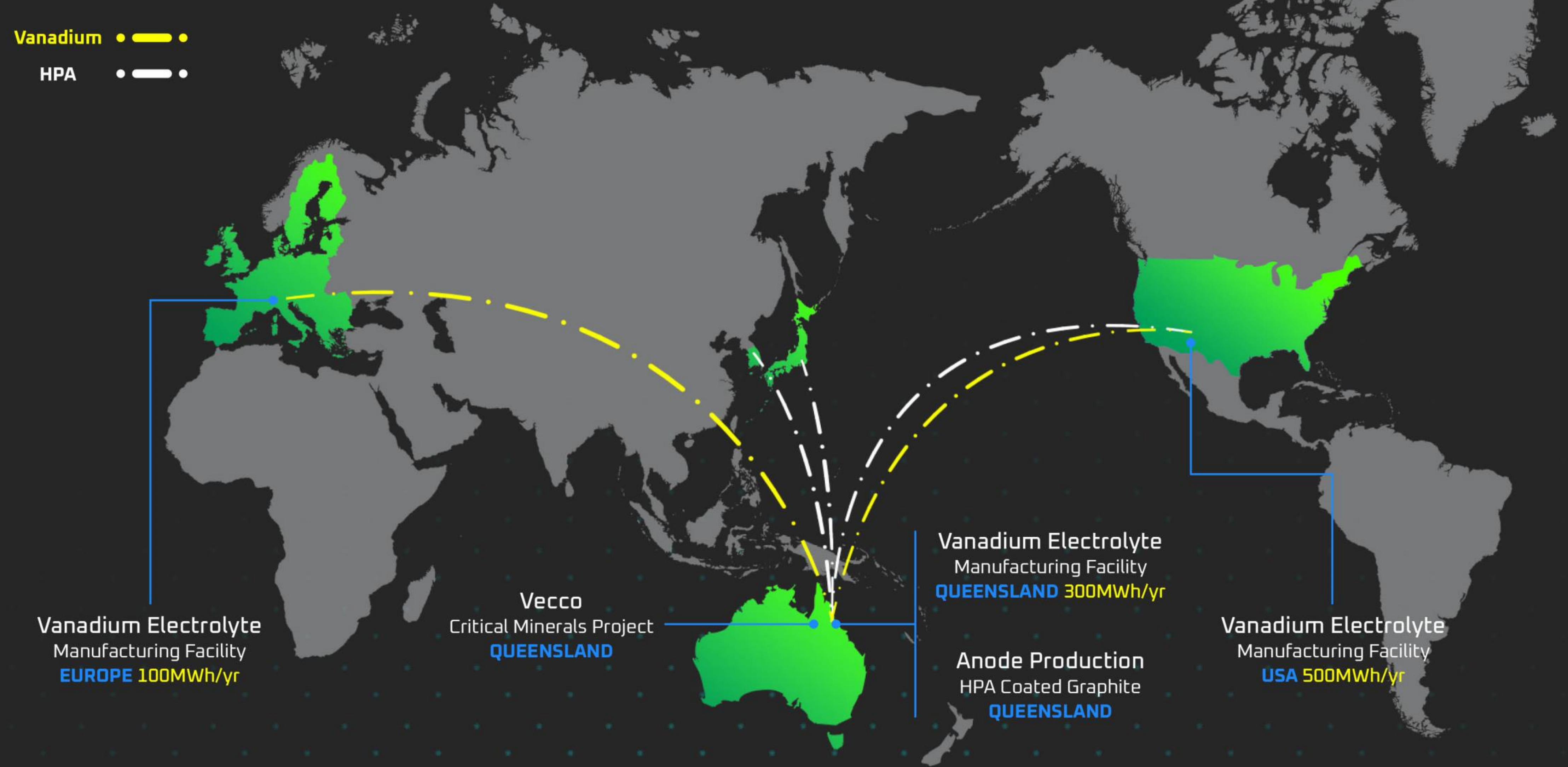
GLOBAL MANUFACTURING AND OFFTAKE STRATEGY



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TOWNSVILLE VANADIUM ELECTROLYTE FACILITY

35 MWh (2ML)
PRODUCTION / ANNUM

Stage 1 proven electrolyte quality and operational techniques

Locally produced electrolyte enables local battery projects


DANGER LIVE RAILS
GLOBAL


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COMMERCIAL SCALE VANADIUM TOWNSVILLE (QLD) SITE

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VECCO MANUFACTURING

TEXAS VANADIUM ELECTROLYTE FACILITY

100 MWh (6ML)
PRODUCTION / ANNUM

Stage 1 Texas facility to support USA battery projects

Locally produced electrolyte enables local battery projects

Stage 1 Operations to commence in 2026 with scale up to 500MWh by 2028

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THE SUPPLY CHAIN OPPORTUNITY

Local does matter – it's more than a catch cry

The Customer is the middle of the Supply Chain

Real Opportunity must be win-win (win-win-win-win?)

LOCAL DOES MATTER

CAPABILITY BAKED IN

RECYCLING INDUSTRY

IN COUNTRY SPARES

LOCAL TECHNICAL SKILLS

COST DECOUPLED

PRODUCT SUPPORT

COST – CAPEX, OPEX, LCOS

TRANSFER OF RISK

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LOCAL DOES MATTER

SECONDARY BENEFITS ARE THE ICING ON TOP

EXPORT

JOBS

ENERGY SECURITY

ROYALTIES

SUPPORT ALLIES

SKILL TRANSITION

INTERNATIONAL INVESTMENT

THE CUSTOMER IS THE MIDDLE

OF THE SUPPLY CHAIN, NOT OUTSIDE IT

THE CUSTOMER IS THE MIDDLE

THE SUPPLY CHAIN

THE CUSTOMER IS THE MIDDLE

CUSTOMER FOCUS?

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THE REAL CUSTOMER FOCUS?

CAPEX

THE JOURNEY

Department of Energy | August 2024

Innovation Reduces Long Duration Storage Costs

Figure ES1 shows the range of projected change in LCOS after implementing the top 10% of LCOS-reducing innovation portfolios for each LDES technology, relative to DOE's Long Duration Storage Shot target ($0.05/kWh LCOS or less).

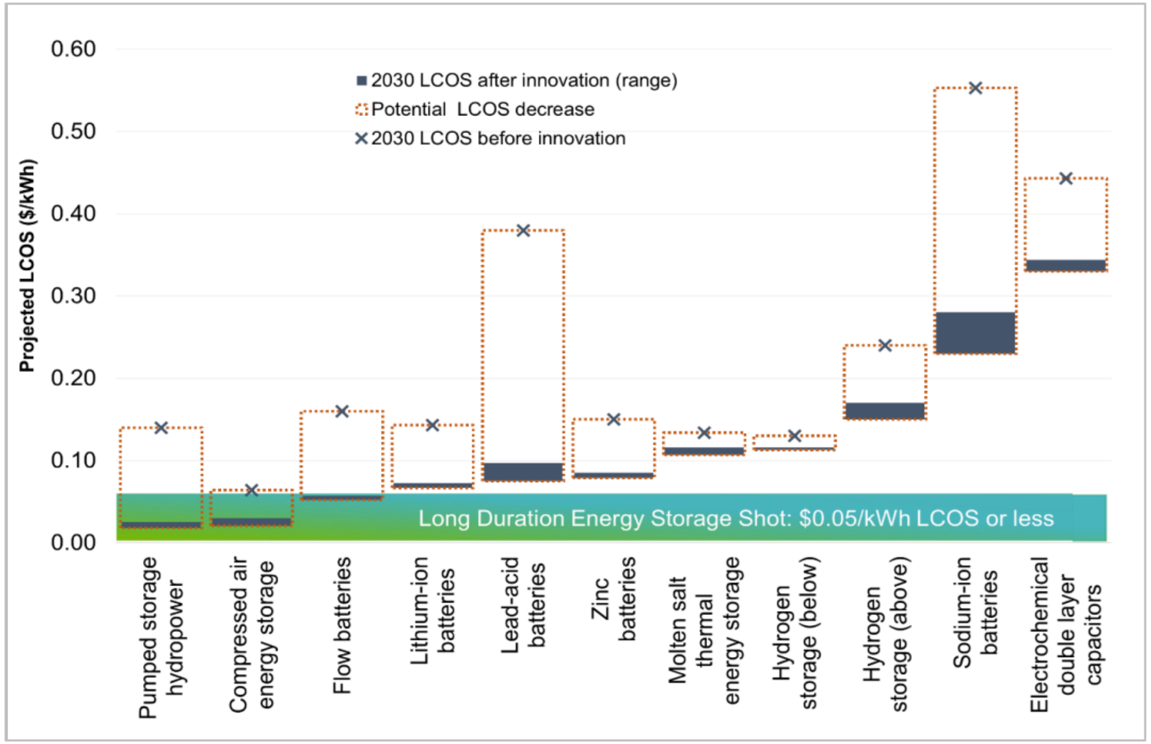


Figure ES1. For long duration energy storage, the range of impact on the 2030 LCOS after implementing the top 10% of LCOS-reducing innovations. Above and below ground hydrogen storage are shown separately. LCOS: levelized cost of storage.

Potentially achieve

$0.06/kWh

LCOS

with

$330M

investments

over

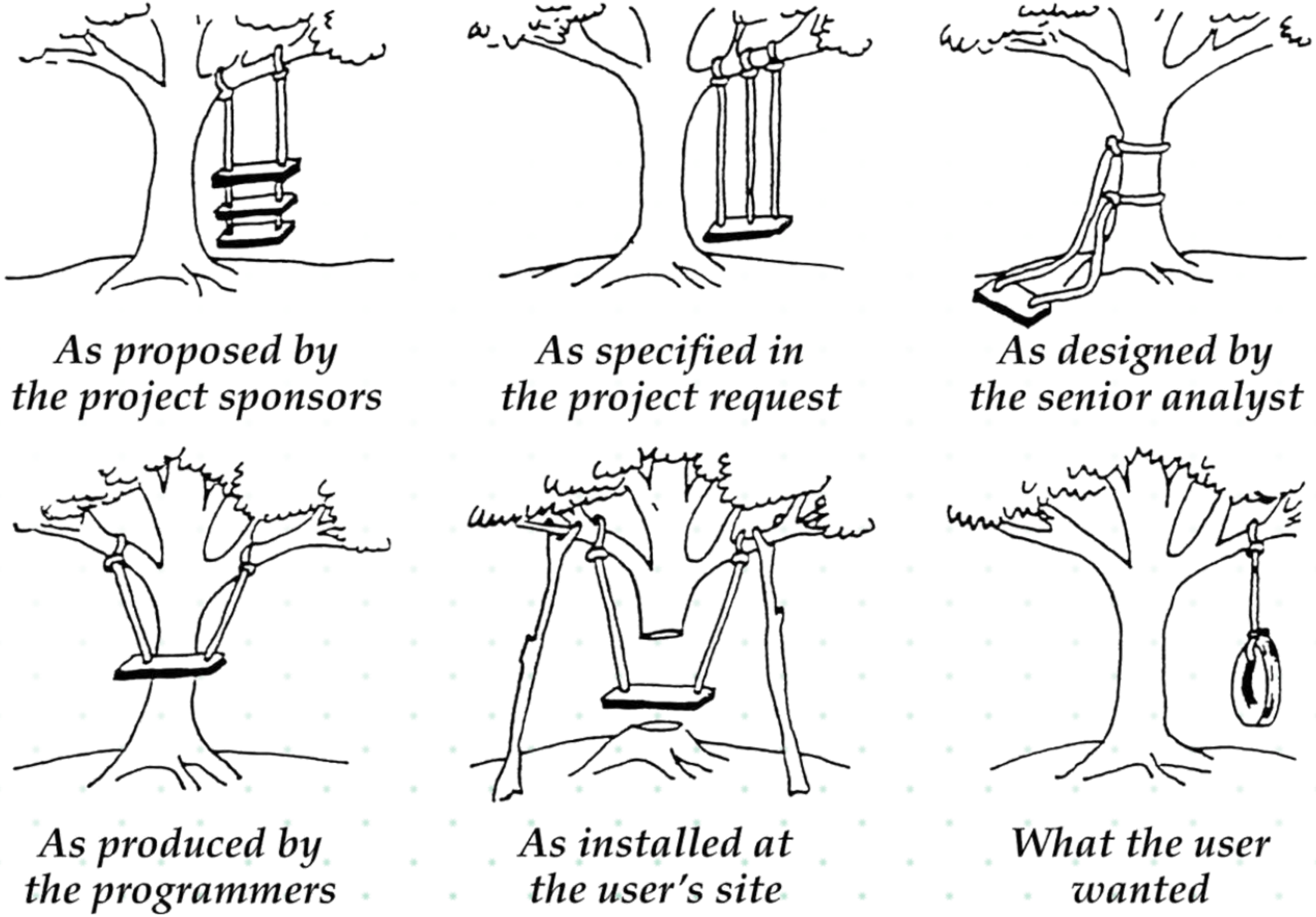
10 YEARS

Values are rounded averages

REAL OPPORTUNITY MUST BE WIN-WIN

IT CAN BE WIN-WIN-WIN-WIN

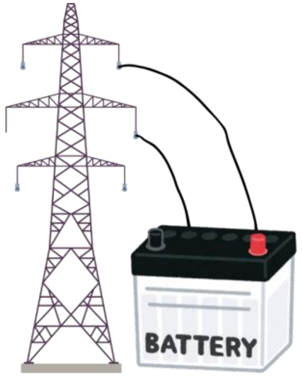
HOW HARD IS IT TO BUILD A SWING...



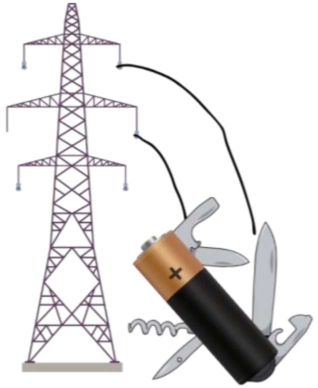
Tree Swing graphic by S Hogh 1993 - from Businessballs.com/treeswing.htm 2013

REAL OPPORTUNITY MUST BE WIN-WIN

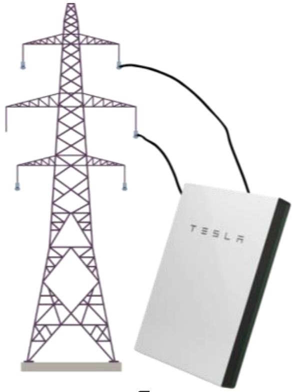
WHAT ABOUT A BATTERY?



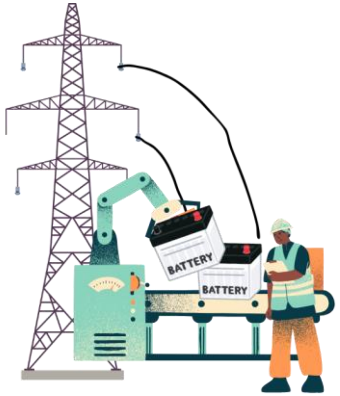
As proposed in the EOI



As described by Sales

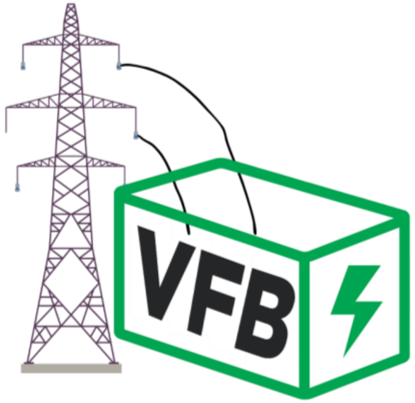


What project finance wanted



What the Govt expected

What was Installed



What the Customer needed

REAL OPPORTUNITY MUST BE WIN-WIN

THE OPPORTUNITY

FOCUS

Coordination
throughout the supply chain

Long term thinking
the future comes quickly

Suitable technology
real world tested +
tangible pathways for improvement

BENEFITS

Customers
cost + ongoing support

Energy consumers
cost + speed

Local communities
jobs + investment

Government
new industry, CO2 targets

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THE SUPPLY CHAIN OPPORTUNITY

If you make **Local** matter

and get the **Customer** in focus

you have real **Opportunity**.

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