1st & 2nd Battery Systems For Our Overseas Strategy Planning



Energy Storage from The Battery Specialists













Partnership Proposal

ACEON DELIVERING RESESIDENTIAL ENERGY STORAGE



Partnership:

- Manufacturer 24v & 48V ESS
- Battery Pack Facility
- Recycling Opportunity

Oversea Partner

- Manufacturer in Own Country
- Help Set Up Battery Assembly Plant
- Supply Components





Partner Proposal

ACEON DELIVERING PORTABLE ENERGY STORAGE



AceOn Group Overseas Strategy to license & manufacture AceOn PES:

- AceOn Supply Modules & Cells
- AceOn Supply BMS
- AceOn Supply Battery Box
- AceOn Supply AC Charger
- AceOn Supply Inverter
- AceOn to Supply Sample PES for Oversea Manufacturing
- AceOn to Support Set Up Operation Overseas



Partner Proposal

SETTING UP PRODUCTION LINES ABROAD



AceOn Group Overseas Strategy to license & manufacture AceOn PES:

- Purchase Automatic Welding Machine
- Supply components for Assemble
- In-House Training
- Produce 8- 40 units Per Day

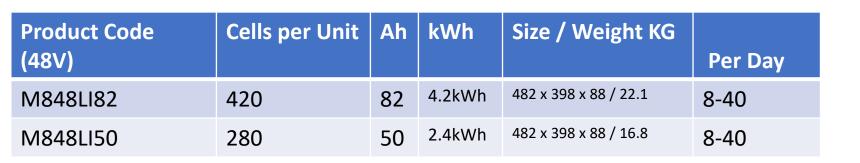






Product Range

ACEON DELIVERING RESESIDENTIAL ENERGY STORAGE



Product Code (24V)	Cells per Unit	Ah	kWh	Size / Weight KG	2 People Per Day
M848LI82	392	140	3.5kWh	482 x 398 x 88 / 22.1	8-40
M848LI50	280	70	1.8kWh	482 x 398 x 88 / 16.8	8-40







Trailer Using 48v Products ACEON DELIVERING PORTABLE ENERGY STORAGE

















Assembly process

- Battery pack training will be required.
- Staff will require a level of experience/education to complete training.
- Technical Support
- New Product & Process Development

Professional proposal PES

- Stackable Battery Capacity.
- Stackable Inverter to 4 units





AceOn Proposal

ACEON DELIVERING PORTABLE ENERGY STORAGE



AceOn Group Overseas Strategy to license & manufacture AceOn PES:

- AceOn Supply Modules & Cells for Swappable Power Pack
- AceOn Supply BMS
- AceOn Supply Battery Box
- AceOn Supply AC Charger
- AceOn Supply Inverter
- AceOn to Supply Sample PES for Oversea Manufacturing









AceOn PES

UK Case Study – Munchbox Roadside Kiosk

For 25 years Munchbox kiosk has used a petrol generator to power their lighting, fridge freezer, toaster and others electrical appliances.

Weekly petrol consumption has been ~ 12 litres/week (624litres/annually) creating a CO2 output of ~ 27.72 Kg/week (or 1441Kg/year).

Munchbox trialled AceOn's PES which cost £2 to charge powering the kiosk for a week.

Using average fuel emissions annual benefits include:

- Reduced pollution and noise
- Removes requirements for handling petrol in catering environment
- Cost saving £800 https://www.youtube.com/watch?v=Oz41Blll97g
- CO2 reduction 1441Kg
- Petrol reduction 624 litres









ACEON GROUP - 2nd Life



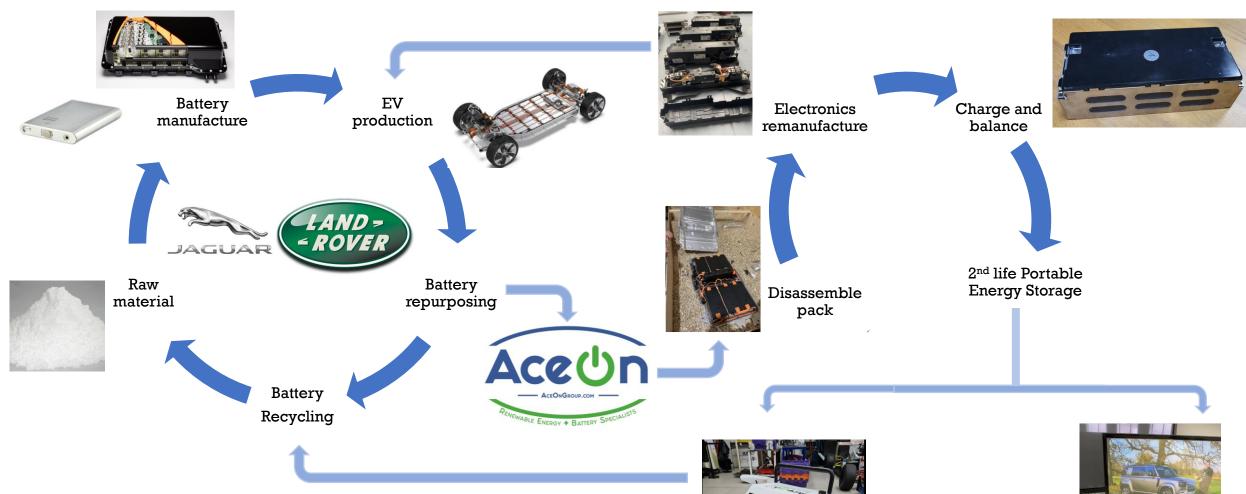
- Training at automotive OEM (April
- Swappable Prototype Boxes have been manufactured
- Other automotive OEM's
- AceOn IP components for PES











Automated 42v 1st Life

Li- ion 18650 packs 21700 packs

EV 2nd Life





Product Review- Low Cost PES Battery Aceun





2nd Life Electric Vehicle (EV) Battery



Nigeria – 'PES Power'



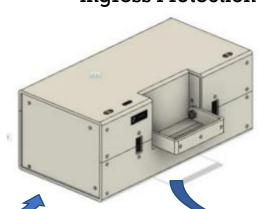
Africa 2nd life products



Battery CAD



Modular design and assembly



Ingress Protection



Swappable Battery Using 2nd Life Batteries & AceOn ESS Powerpack























TRAINING THE FUTURE WORKFORCE



In collaboration with MCS, AceOn support and can offer a programme of tailored installation training opportunities:

- Energy Storage system
- Solar PV
- In-Roof Solar PV
- Electric Vehicle Charging Equipment
- Wiring Regulations
- ➤ Air Source Heat Pumps
- New Battery Manufacturing Technician Apprenticeship



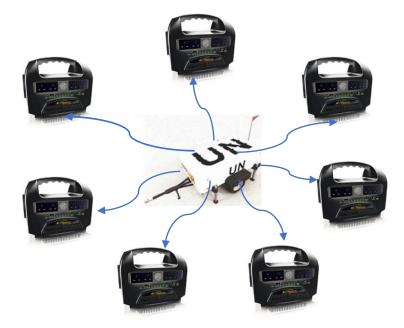




UK Microgeneration Certification Scheme (MCS) - Helped create and develop the Battery Storage Standard (MIS 3012)

ACEON – WORKING ON UK NEW BATTERY TECHONOLGY- EC 8



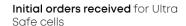


YES – SODIUM ION MANUFACTURED IN THE UK



Ultra Safe

- Stage A Sample
- UN38.3 **Q2 2023**
- Samples to customers **Shipped**



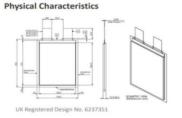






2 414
3.1V
140Wh/kg
230Wh/I
0.23kW/I
0.5kW/l
670g





Sodium Ion Batteries shaping up to be big technology breakthrough

KNOWLEDGE TRANSFER PARTNERSHIP



Materials and Manufacturing

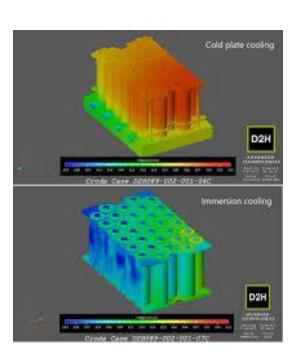
Knowledge Transfer Partnerships (KTP) are part-funded by Innovate UK to support business-university interactions in the UK.

AceOn, working with University of Wolverhampton, have secured an exciting KTP opportunity to:

- > Carry out thermal characterisation of batteries through simulation and experimental testing.
- > Develop additive manufacturing process parameters to build a prototype.
- > Manufacture and carry out thermal analysis.
- > Carry out thermal performance characterisation of the manufactured geometries.
- > Use simulation techniques to ascertain optimum thermal performance of generatively designed complex geometries.
- > Manufacture of proof-of-concept battery module demonstrators.







ACEON – HELPING TO LEAD THE WAY IN THE UK BATTERY MARKET

















