Where we sit

- AGM in early discussions with UK & European exploiters & suppliers of raw materials
- AGM working with major UK & European Active Material manufacturers
- And Suppliers of ALL materials & Components
- AGM in active projects looking at 2nd life use, recycling & disposal of Lithium-ion cells & packs
- AGM working closely with Automotive OEM battery divisions
- Global Consumer Electronic
- Energy Storage, Trains, Oil & Gas, Specialist
- AGM in projects looking at 2nd life use, recycling & disposal of Lithium-ion cells & packs
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AGM’s internal development process reduces overall development costs and time to market.

1. New electro-chemistry
2. Scale / design for manufacture
3. Produce cells
4. Battery pack design and assembly

Iterative process to develop optimum chemistry mix

New IP created for manufacturing process, owned by AMTE

Background IP introduced by chem-cell company – AGM secures rights to commercialise

Technology has been significantly de-risked and is ready for application, resulting in a significant value inflection point ahead of full market entry (either by way of licensing out for royalty/fee, partnership or in-house manufacture).

Demonstrator ready
How we do it

Flexible Scale-up, Prototype & Niche manufacture
Commercial Cells – Made in the UK

Mix of cell types & Chemistries
What’s in a Cell

Cell Components

- Cell casing
- Cathode foil
- Anode foil
- Cell Tabs
Building a Supply Chain

**Battery Pack Components**
- Cell (Pouch)
- Automotive battery pack
  - Module case and connectors
  - Pack case and connectors
  - Thermal management system
  - BMS/Smart hardware
  - BMS/Smart software

**Cell Components**
- Anode Electrode Material
  - Slurry mixing and coating
- Cathode Electrode Material
  - Slurry mixing and coating
- Electrolyte solution
  - Recipe and mixing
- Laminated Pouch Foil
  - Lamination
- Ceramic coated separator
  - Separator coating
- Separator ceramic coating mix
  - Recipe and mixing

**Cell Component Materials**
- Anode coating paste
  - Recipe and mixing
- Cathode coating paste
  - Recipe and mixing
- Cathode active material
  - Recipe, milling and mixing
- Al2O3 & other ceramic material
  - Recipe and mixing

**Materials**
- Copper Substrate
  - Rolling ED
- Aluminium Substrate
  - Rolling
- FR4
  - Fabrication
- Glass Fibre
  - Fabrication
- TBO (TBD)
- Plastic (TBD) (TBD)

**Process/Formula**
- Recipe and mixing
- Slurry mixing and coating
- Rolling
- Lamination
- Separator coating
- Separator mixing and coating
- Various Production

**Extraction/Recycling**
- Copper
- Aluminium
- FR4
- Glass Fibre
- TBO
- Plastic

**Production**
- NMP/aqueous solvents
- PVDF/CMC/EB binders
- Dispersants
- Conductive Carbon
- Cobalt, Nickel, Manganese
- Lithium carbonate
- PF6 - and other salts
- Organic carbonates
- Additives
- Binder

**Component / Material**
- Single Tab Construct Circuit
  - PCB Assembly
- Temperature Sensor
  - Assembly
- Sensors (Volts, Amps, Ohms)
  - Component (TBD)
- Smart Cell ASIC
  - Component (TBD)

**Assembly**
- PCB Assembly
- Flex Raw Material
  - Fabrication
- Copper
  - Extraction/recycling
- TBO (TBD)

**Fabrication**
- Various Production
- Flex Fabrication
- Glass Fibre Fabrication
- Plastic Fabrication

**Component (TBD)**
- Flex (TBD) (TBD)

**Exposed**
- Various
- Various

**Building a Supply Chain**

**Key**
- Process/Formula
- Component / Material
Training the Workforce

From Apprentice to PhD!