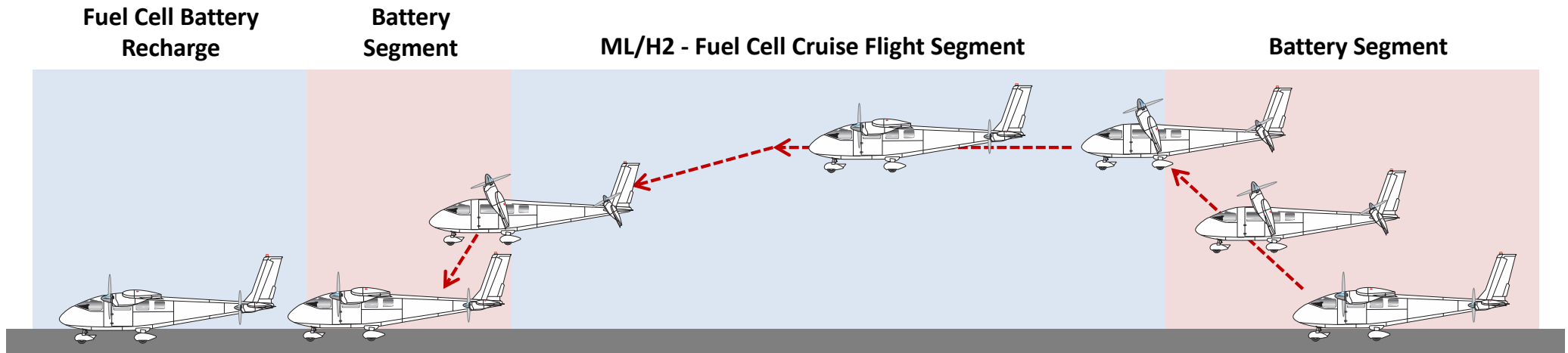
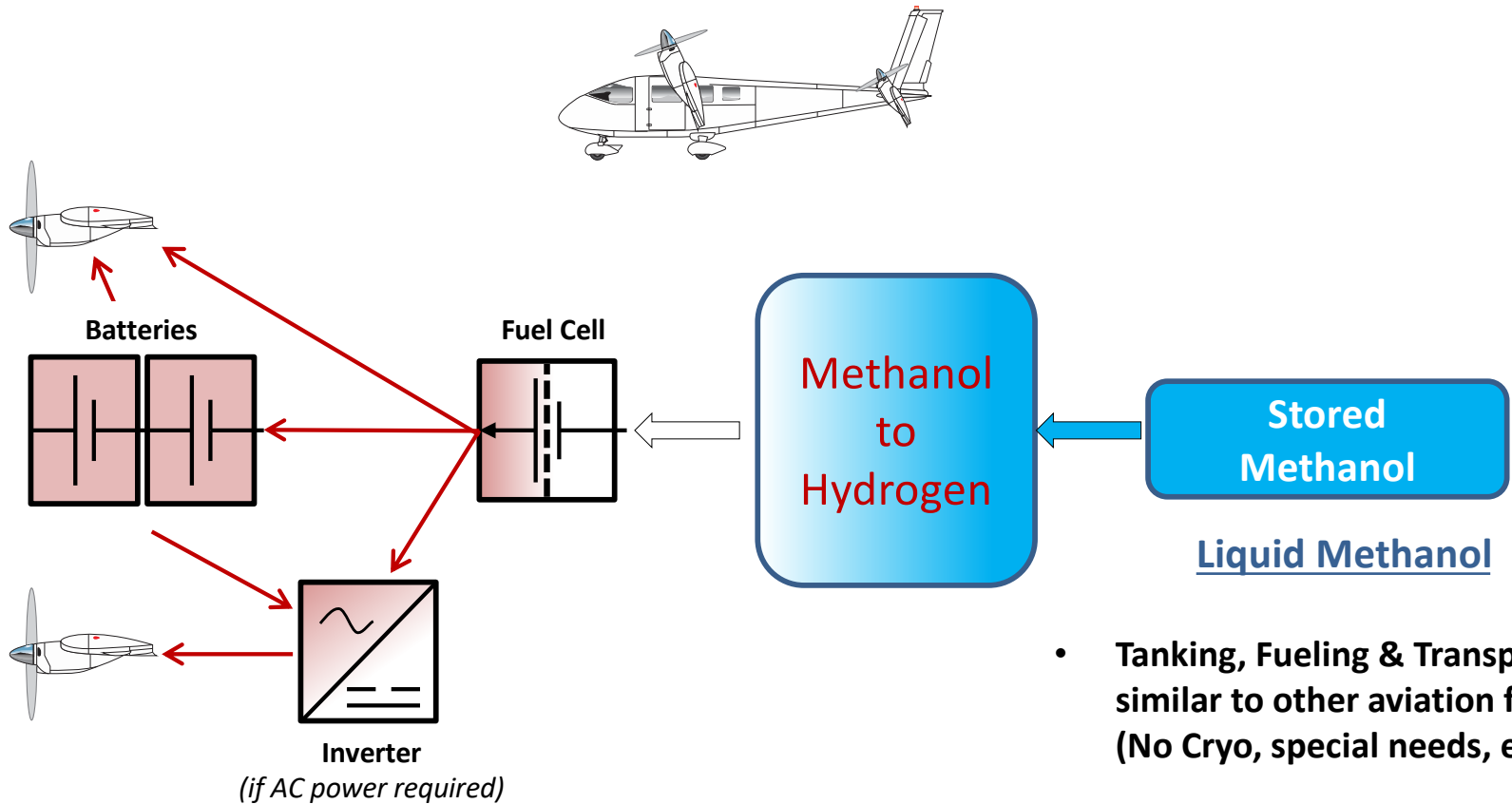


eVTOL Methanol to Hydrogen Power Concept - Flight Profile



- Designed for **Cruise Flight only** (Batteries for T/O & Landing)
- Can be Fuel Cell direct to Motors or via Inverter depending on power requirements
- Preserves Battery Power for T/O & Landing (**Extends Range**)
- Will be able to **recharge Batteries in Flight** (Unused Flight Power Dependent)
- Will be able to recharge Batteries on Ground (**Eliminates charging station**)
- Will be able to **reduce number of Batteries on Vehicle**

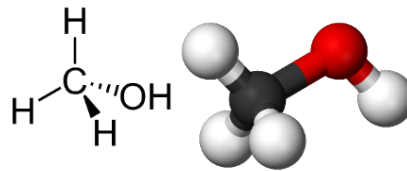
Element 1 - eVTOL Methanol to Hydrogen Power Concept



- **Tanking, Fueling & Transport similar to other aviation fuels (No Cryo, special needs, etc.)**
- **6.5 lbs./gal (Jet-A 6.7 lbs./gal)**
- **Current cost / gal = \$1.25 - \$1.75**
- **Price can drop as global volumes increase**

Vertical Flight Society – Hydrogen Council Presentation

- Hydrogen is an ideal fuel for future eVTOL operations, since it is green and has high energy density.



- Ubiquitous liquid or gaseous hydrogen production and distribution infrastructure is at least a decade away.

Methanol defined:

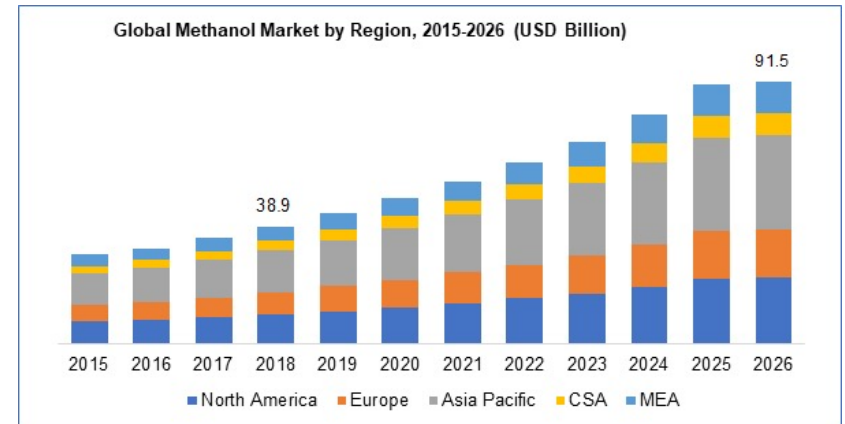
- Methyl alcohol, also referred to as wood alcohol.
- Has more recoverable hydrogen than an equivalent volume of liquid hydrogen.
- Is a promising energy carrier because, as a liquid, it is easier to store and distribute than hydrogen.
- Safe to transport, store and use now.

Methanol is widely available today:

- Relies upon existing distribution systems.
- Even Amazon sells methanol.

- Production of methanol is increasingly being made from biomass and from renewable energy.

Global Methanol Supply



Global Methanol Pricing Comparison

