



EUROSME

Areas of Interest

Ph-a-1 Hybrid Powerplants

Ph-a-3 UAV Avionics



Scope

Identify:

- Collaboration Areas;
- CALTEC Projects and Business Cases;
- Specific Collaboration Interests

Aimed to:

- Developing Collaboration Agreements;
- Sourcing of Finance.



Areas of Interest

EUROSME Project Phases Ph-a-1 and Ph-a-3

- MoE or AEA (More Electric Aircraft or All Electric Aircraft)
- Commercial Aviation, General Aviation and UAV

Project Phases are deeply linked each other

It can be seen as Scale Up or Scale Down case for Technologies



Areas of Interest

Driving Technologies:

- Electric Propulsion
- Energy Storage and Management



FLIGHT SEGMENT CONFIGURATION

- Payload Management
- TLC Management (Configuration, Power, Integration)



SYSTEM CONFIGURATION

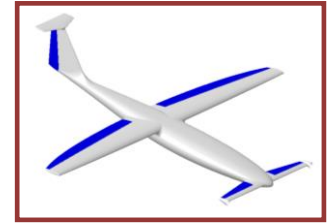
Developments Aimed to Achieve EASA Approval as TC, TSO, else TBD in CS-UAS Framework



CALTEC Business Cases

- Unmanned All Electric Aerial Systems

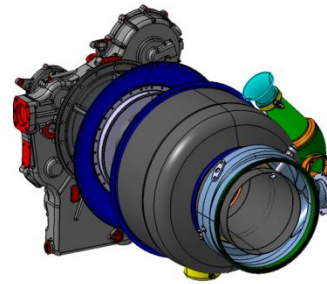
CALTEC DOA Capabilities



CS-UAS

- Auxiliary Power Units

EASA TC



CS-APU

- Luxury Cars



Multiple Renewable Energy Sources Integration



Specific Collaboration Items

- TLC (Antenna Kit, Range 200Km, Lightweight, 800-900KHz)
- UAV Anticollision, FLARM, Flight Terminators, etc. (Lightweight)
- Electric Engine Industrialization 3÷20kW@5000 Rpm (**Company Confidential**)
- Ultralight LiPo Package
- BMS Industrialization 50÷500A (**Company Confidential**)
- Electric Motor Drives Industrialization (**Company Confidential**)
- Power Generator (60-250kW for APU) Narrow Body or Regional Aircrafts