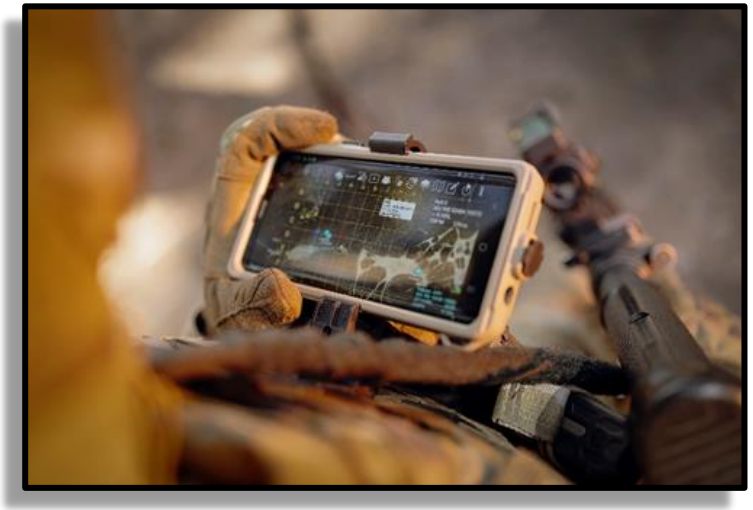
## On the person

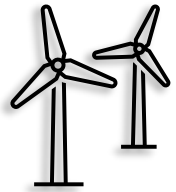


## On the platform

## In the base

**Increasing demand**

### Sustainability

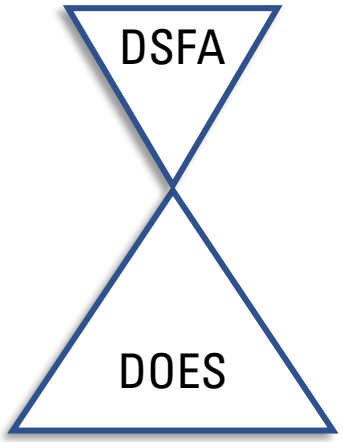


### Survivability

### Standards

### Skills

**Themes**




Increasing resource

**Policy**

**Equipment Plans**

**Interoperability**

**Culture and Skills**

**Themes**

# FUTURES Focus Areas

| Problem | Objective |
|---|---|
| Power and Energy Metrics | Power and Energy is a critical enabler, yet the Army lacks info on its end-to-end energy use. Land energy flow measurement and force dev. modelling is required to generate the evidence to underpin any energy transition. Platform energy test-beds, on which future power and energy technologies can be tested and developed would also be advantageous. |
| The Power and Energy Transition | The Army Electrification Strategy and Sustainability agenda, will impact significantly on the procurement and support of land equipment. Rapid adoption of innovative technology from the civilian sector will require bespoke research to mature standards & integrate technologies within the realities of the military context. |
| Advanced Energy Storage | Next generation and generation after next developments in civilian batteries must be monitored and the application of these technologies to the military land environment de-risked and exploited. This includes activities such as military ruggedisation and safety testing, as well as analysis of the security of supply of batteries, cells and their precursor materials. |
| Next Generation Power and Energy | Hydrocarbon fossil fuels are one of the most energy dense and logistically convenient forms of energy available to the Army. However, the development of realistic alternatives is required (e.g. synthetic/biofuels, hydrogen, ammonia, micro-nuclear etc.). Investigations are required into the operational realities of alternative energy carriers as well as their volume production. This work must be conducted in partnership with the other FLCs. |