

**CIRTEM<sup>+</sup>**  
POWER OPTIMISED

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Defense

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GCE and DLE | November 2018

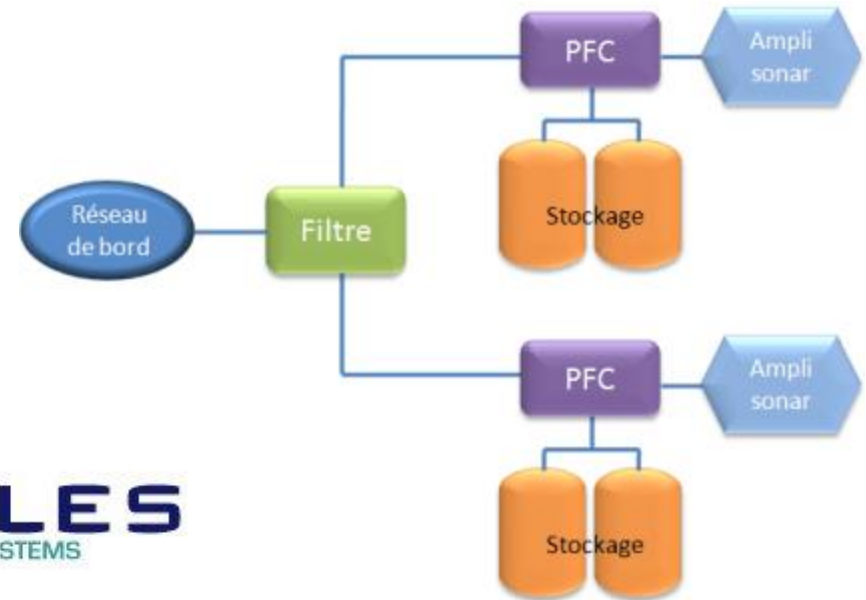




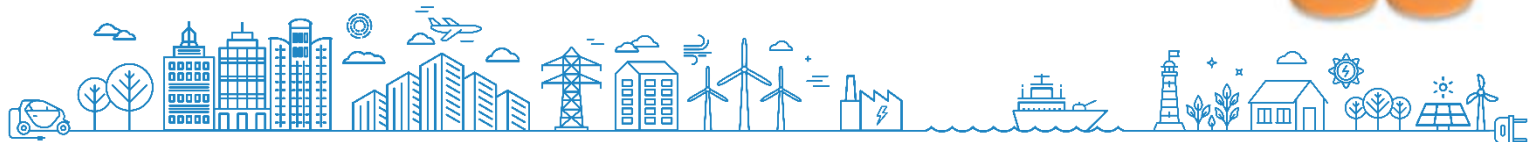
Defense

# Hybrid Embedded Supply Frigate

- Sonar power supply
- Navy
- 46 kW
- 2 converters :
  - PFC : AC/DC
  - Storage management: DC/DC



**THALES**  
UNDERWATER SYSTEMS



- Speed drives for traction motor – dozens of kW
- Speed-drives / reversible inverters in SiC technology – dozens of kW
- Reversible isolated and non-isolated DC-DC – several dozens of kW
- Power distribution and protection units in SiC for embedded storage





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