



ALFAMA Project: Development of a flexible and laminated space photovoltaic array

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► State of the art and future trends for space solar arrays

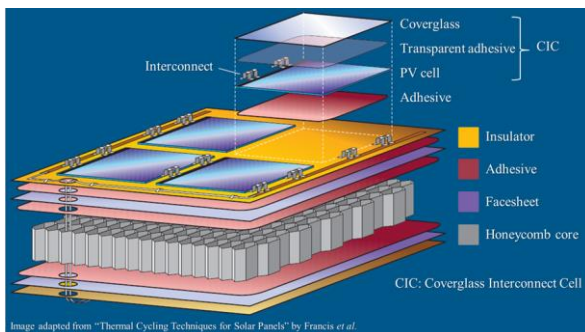
From standard rigid solar array...

...To flexible solar array

Astrotech
Dawn

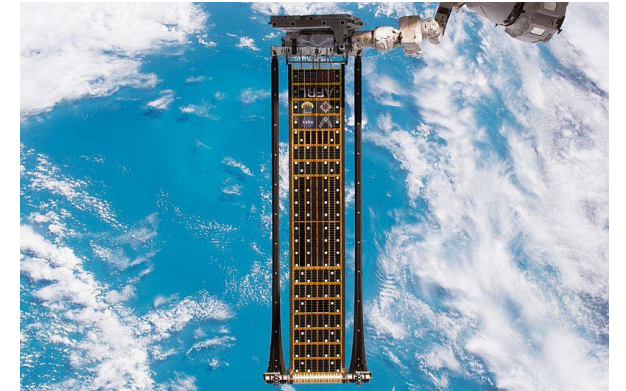
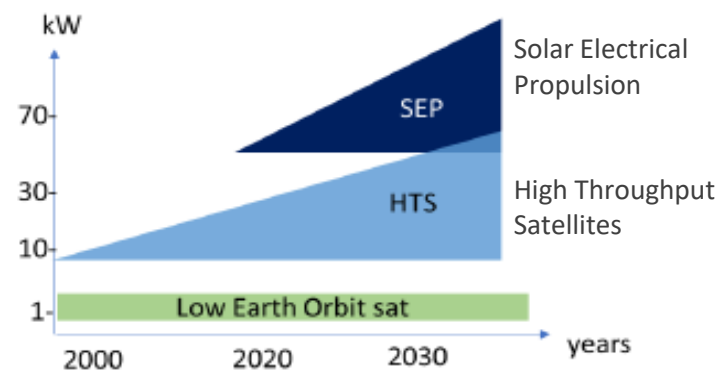


Robert
W. et. al.



Targets:

- W
- W/kg
- W/m³

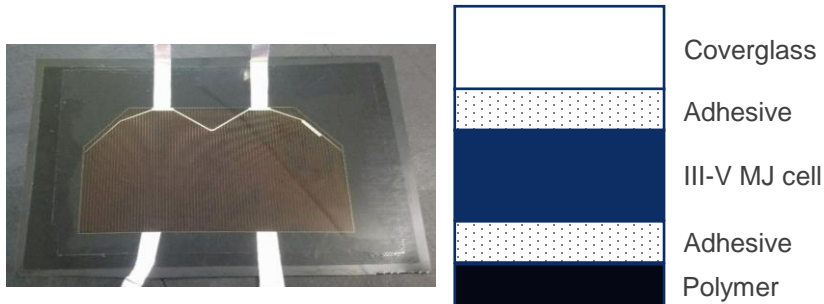


DSS
ROSA

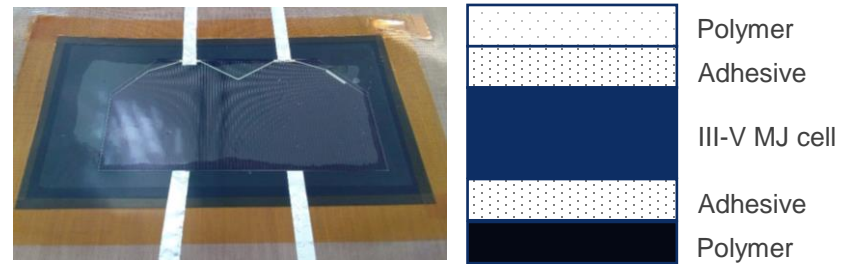


CEA developments within ALFAMA project on flexible laminated array:
 → Ongoing R&D work focusing on designs and their innovative interconnection solutions was presented at EU-PVSEC 2020

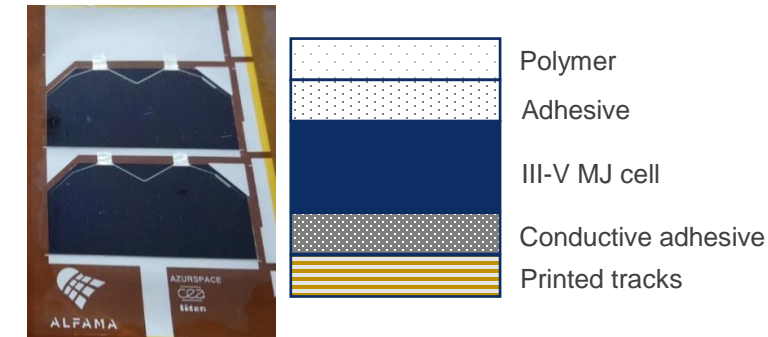
Design 1



Design 2



Design 3



Advantages:

Standard coverglass
Thin module
Simple process

Thin & Flexible module
High W/kg ratio
Simple process

Thin & Flexible module
Integrated harness
Radiation protection