

fairlight

FEC-1 / CONCEPT BRIEF

A physical standard for seasonal electricity.

The architecture

Solar serves immediate demand. Lithium-ion handles daily buffering. Fairlight is developing reusable iron carriers for seasonal storage, with shared equipment for charging, discharge and preservation.

Proposed carrier

400 x 300 mm face. 8-12 kg mass target, subject to validation.
Replaceable stamped plates, common handling and processing interfaces.
Eight face footprints tessellate on a 1200 x 800 mm Euro pallet.

Preservation concept

Charge, drain, rinse, vibrate, verify, store. Multi-month dormant-state stability, process energy and repeatability remain research questions.

Compatibility and identity

Standardize external interfaces while plate materials and recipes evolve. Optical identifiers are intended to connect signed lifecycle records to each physical carrier. Exchange and certification rules are proposed.

Development status

Not a production specification or certified performance statement.
No validated specific energy, efficiency, self-discharge or cost claim.
Transport classification, installation approval and service limits must be established before commercial deployment.