fairlight

FEC-1 / CONCEPT BRIEF

A physical standard for stored renewable electricity.

The architecture

Solar serves immediate demand. Lithium-ion handles daily buffering. Fairlight is developing standardized physical carriers that hold stored electricity and move through a compatible processing network.

Proposed carrier

400 x 300 mm face. 8-12 kg mass target: a mechanical handling target, not an energy-density claim. Replaceable iron electrode pack, common handling and processing interfaces. Euro-pallet compatible footprint.

Preservation concept

Process, drain, optional rinse, vibrate, verify, preserve. The objective is a measured dormant condition with reduced reactive liquid contact; a completely dry state or zero self-discharge is not claimed.

Compatibility and identity

Standardize external interfaces while electrode revisions improve inside. 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.

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