JUMPLINK ENERGY SYSTEM INC.

COMPANY OVERVIEW

Integrated energy storage & smart microgrid development

JUMPLINK
JUMP WITH US

OUR PURPOSE

Jumplink Energy System Inc. is an Ontario-incorporated research and development company focused on prototyping the core technologies of an integrated smart microgrid. The initial program combines a vanadium redox flow battery (VRFB), a DC/AC inverter, power conditioning, monitoring and system protection. A larger pilot installation is a separate future stage.

TWO PRINCIPAL PROTOTYPES

01 VANADIUM FLOW BATTERY

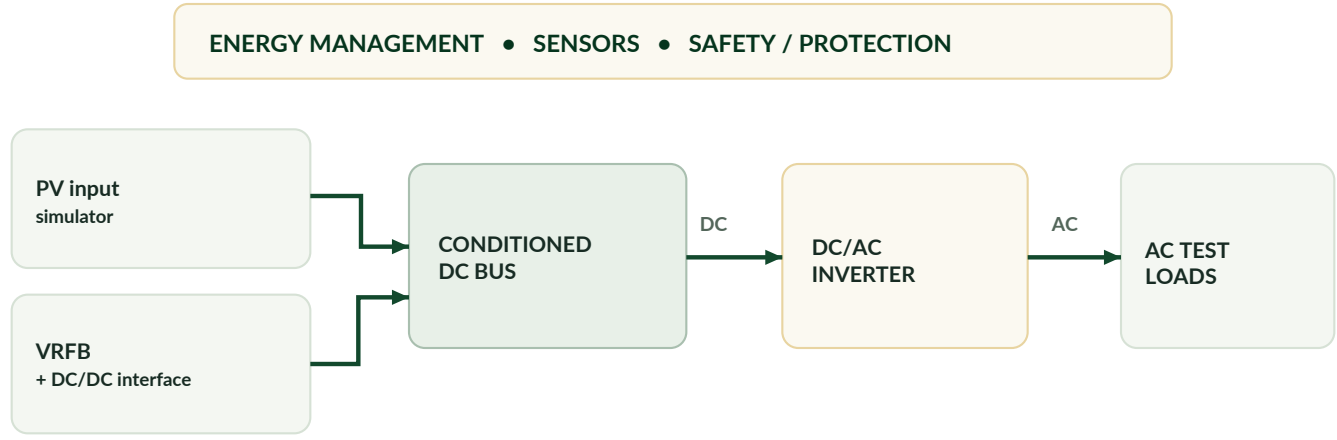
Seven-cell laboratory stack; nominal 100 W / ~10 V design target. Research covers graphite components, Nafion membrane, felt electrodes, electrolyte circulation, sensing and electrochemical testing.

02 DC / AC INVERTER

Power electronics and control prototype for DC-to-AC conversion. Research covers electrical interfaces, regulation, monitoring, switching, protection and operation with controlled laboratory loads.

PRE-PILOT SMART MICROGRID ARCHITECTURE

Conceptual laboratory system; interfaces and ratings remain under engineering review.



The battery power target does not define inverter output; DC/DC interfaces need separate validation.

FROM LABORATORY PROTOTYPES
TO AN INTEGRATED DEMONSTRATION

DEVELOPMENT SEQUENCE

01 — Design & procurement

Complete architecture, component designs, supplier quotations and safety review.

02 — Build the components

Fabricate the VRFB stack; assemble inverter, DC interfaces, sensors and protection.

03 — Integrate & test

Connect laboratory subsystems; test circulation, conversion, control and stability.

04 — Validate & document

Record repeatable performance, identify limitations and prepare scale-up recommendations.

05 — Plan future pilot

Define a larger integrated demonstration after prototype evidence and new financing.

FUNDING OBJECTIVE & USE OF PROCEEDS

CAD $250,000

PRELIMINARY R&D
FINANCING OBJECTIVE

Engineering and fabrication of VRFB hardware, inverter and DC/DC electronics, instrumentation, protection, laboratory integration and testing.

Budget status: The original $250,000 estimate was developed mainly for the battery prototype. The combined microgrid scope requires updated supplier quotations and re-costing before this amount can be presented as sufficient.

POTENTIAL APPLICATIONS

- STATIONARY STORAGE
- RENEWABLE INTEGRATION
- SMART MICROGRIDS

PARTNERSHIP OPPORTUNITIES

Jumplink welcomes exploratory discussions with energy storage and power electronics companies, engineering and laboratory partners, renewable energy integrators, and prospective investors. Potential engagement includes research collaboration, prototype support and future pilot planning.

CONTACT & INVESTOR INQUIRIES

Ontario, Canada | Investor and partnership inquiries through the Jumplink website.

Early-stage research. All ratings and development timelines are objectives, not proven performance. This overview is for general information and preliminary discussions, not an offer to sell securities.