

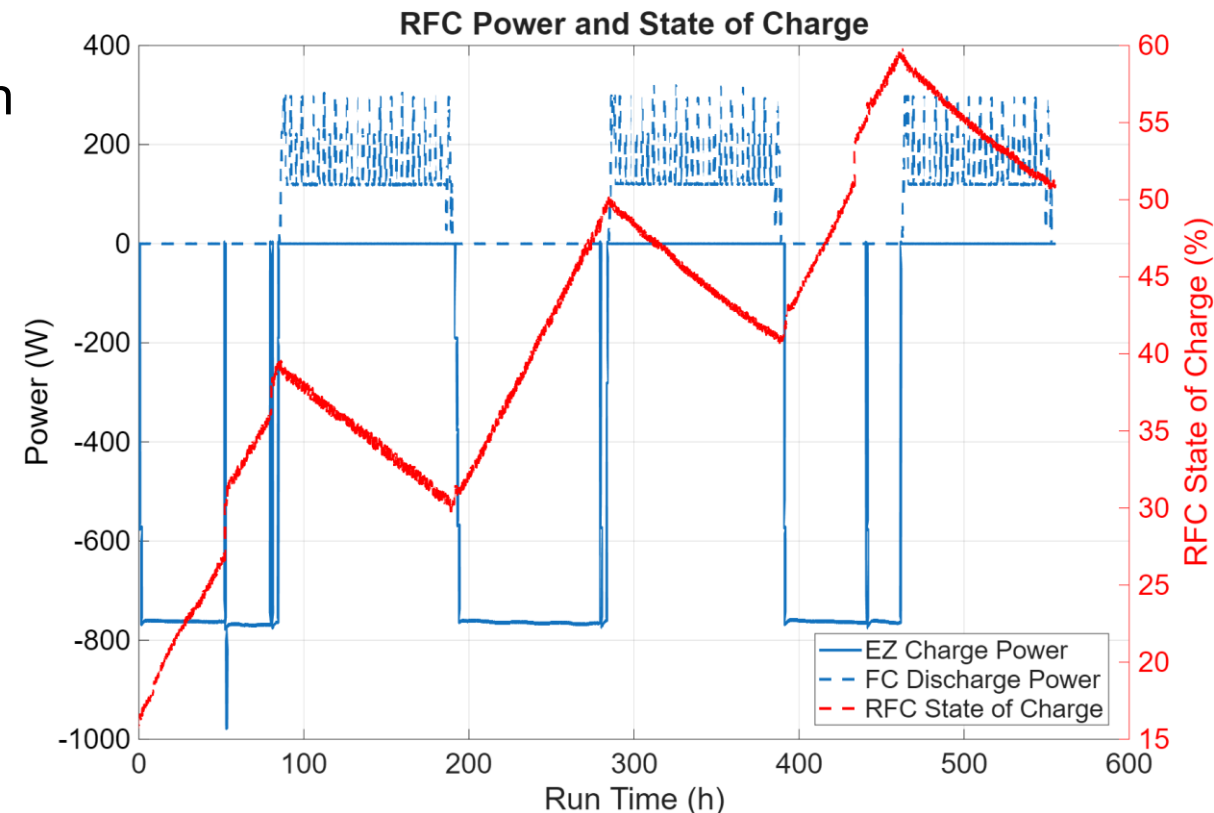
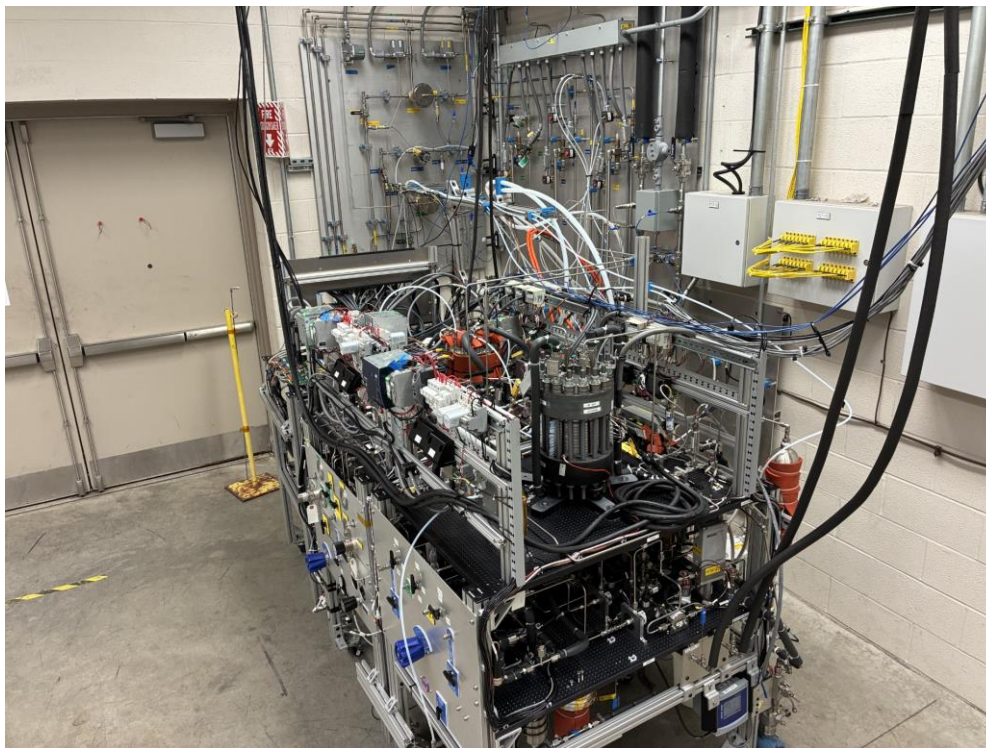


Performance of a Regenerative Fuel Cell System for the Lunar Surface



- Designed, assembled, and tested a **breadboard regenerative fuel cell (RFC) system** that was comprised of a fuel cell stack, an electrolyzer stack, fluidic conditioning, avionics, power management and distribution, and thermal management
- Testing demonstrated autonomous system operation over **3 simulated lunar day/night cycles**

Breadboard RFC system integrated for testing



RFC charge and discharge power and estimated state of charge for the breadboard RFC system over 3 simulated lunar day/night cycles.

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