

Actual fuel cell stack power generation test

We accelerate stack development by testing protocols requested by customers 24 hours a day using fully automated program testing equipment and infrastructure.

Circumstance

Higher temperatures and more complex stack power generation tests are required

- Advances in FCV and HDV development require higher stack operating temperatures and simulation of real-world operating conditions.
- Customers are developing their own proprietary protocols, requiring complex protocol testing.

KRI's efforts and features of stack testing technology

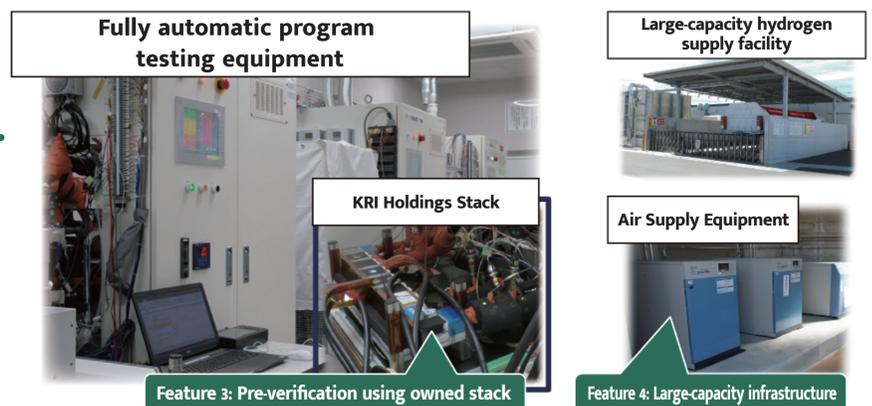
KRI's automatic programmable testing equipment safely performs the tests you require.

- Fully automated program testing of various protocols
- Stack protection function during emergency stops

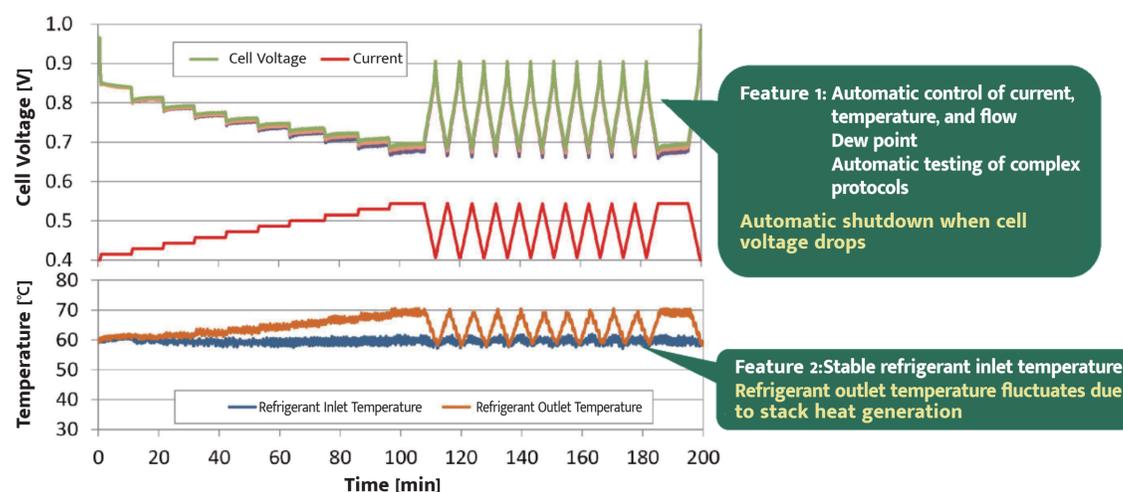
Features of KRI's stack testing technology

- Stack testing is carried out efficiently and with high precision.

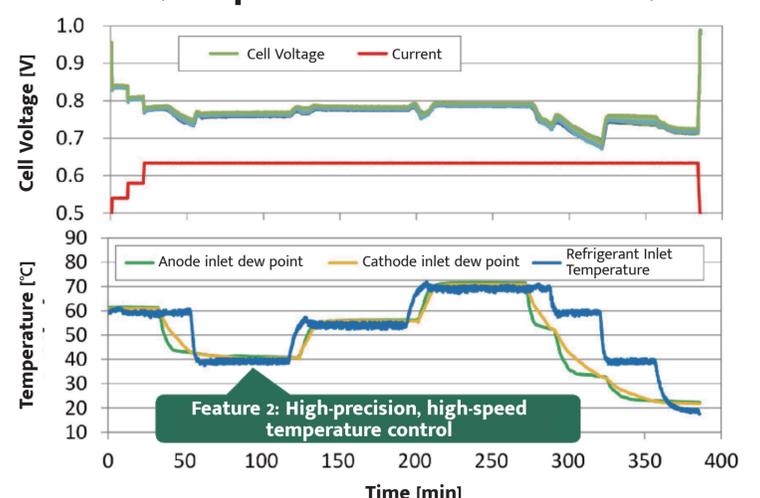
- Feature 1 24-hour program testing allows us to quickly evaluate your desired protocols.
- Feature 2 High-precision, high-speed control allows us to accommodate your desired stack test protocols (high-temperature evaluation tests are also possible).
- Feature 3 Preliminary stack test protocol confirmation is possible using KRI-owned stacks (we also offer consultations on equipment modifications).
- Feature 4 We own infrastructure, including large-capacity hydrogen supply facilities.



Program test example ① (load change test)



Program test example ② (temperature fluctuation test)



Suggestion

Please use it as an external testing lab.

- Power generation testing focuses on kW-class stacks. Please contact us for special requirements such as high-temperature evaluation.
- We also offer various tests and analyses for air-cooled fuel cells, including the fabrication of necessary fixtures.
- Please feel free to contact us regarding 100kW-class stack testing (scheduled to begin in 2026).