

Supporting the development of air-cooled fuel cell stacks

We support our customers from start-up to problem solving through testing and analysis of air-cooled fuel cells, which generate electricity while simultaneously supplying air and cooling.

Circumstance/Assignment

Air-cooled fuel cells are expected to become more popular in small mobile vehicles due to the simplified cooling system.

- Advantages: **The cooling system is simple**, allowing for a **lightweight** and **compact** design. **Maintenance is also easy.**
- Applications: **Small mobile devices**, emergency power supplies, Extension to portable power supplies
- Challenges: **Increased output, improved durability, stable operation over a wide range of temperature conditions**



Small forklift



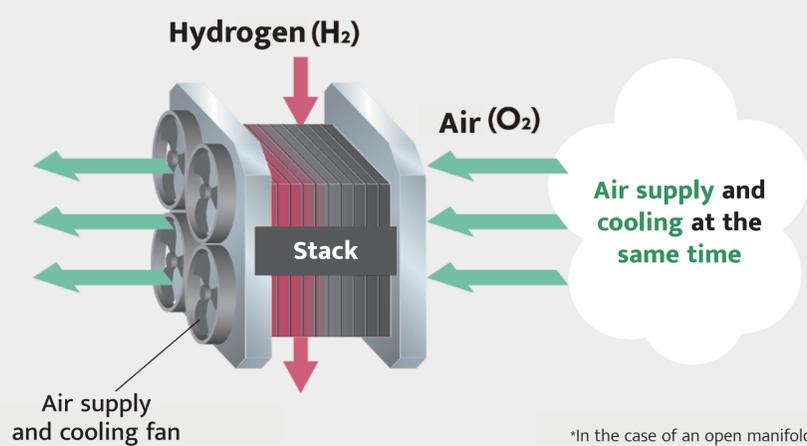
Drone



Electrically assisted bicycles

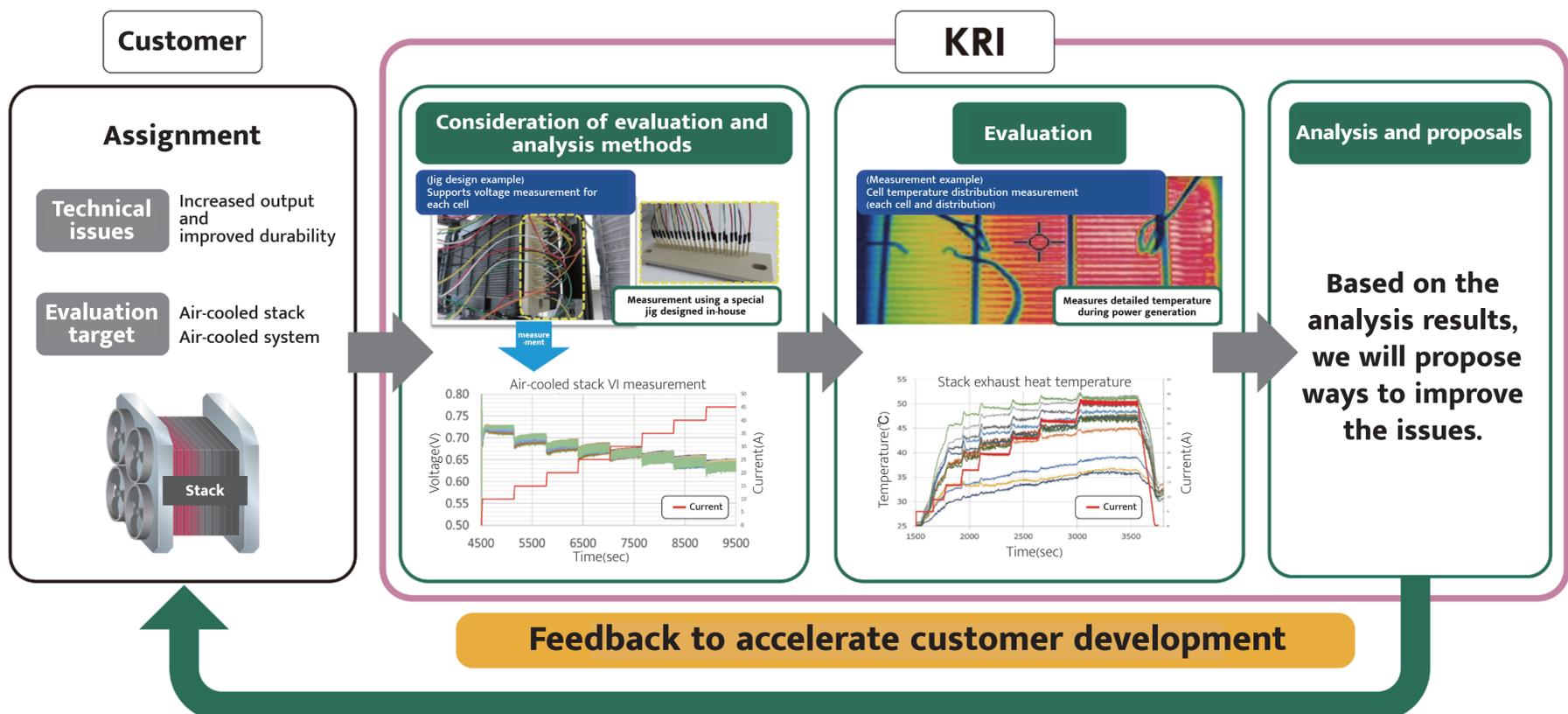
Small mobile vehicles expected to be equipped with air-cooled fuel cells

Air supply and cooling system for air-cooled fuel cells



Air-cooled fuel cell evaluation features

We provide comprehensive support, from system and stack evaluation and analysis to improvement proposals.



- We can perform evaluation tests on both open and closed manifolds.
- We can also perform evaluation tests in low-temperature environments.