

Development of fuel cell system for Dakar Rally race car

CLIENT: GREEN CORP KONNECTION (GCK)

BACKGROUND: The organizers of the Dakar Rally are pushing for a fully green roster by 2030; FEV is supporting development of GCK's fuel cell powered "e-Blast H2" race car which is set to compete in 2023

DELIVERABLES

- Supporting the effort to bring the FCEV race car to the Dakar Rally
 - Power output of onboard fuel cell system will be ~200 kW which is one of the most powerful currently on the market
 - Limits of FCEV capabilities pushed in extreme environment and punishing off-road conditions
- FEV contributions
 - Confirm development targets, requirements and specifications
 - Layout of fuel cell system components (stack, air compressor, DC/DC converter and hydrogen tank) and supplier sourcing
 - System development, packaging of components to fulfill space and weight requirements
 - Develop control software of fuel cell system



200 kW FUEL CELL SYSTEM FOR DAKAR RALLY RACE CAR

