

2017 Ohio Fuel Cell Symposium Balance of Plant Workshop

Cris DeBellis Program Leader Entry Into Service Product Demonstrator LG Fuel Cell Systems March 31, 2017

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Foundational Value of LG and Rolls-Royce Joint Venture

Rolls-Royce Fuel Cells

- FC Technology
- Fuel Processing
- System Engineering
- Design & Modeling
- Scaled Testing
- Years of know-how

Rolls-Royce Group

- Turbine & compressor
- Aero-thermal expertise
- High-temp Materials
- Power Electronics
- System Integration

LG Group

- Process Development
- Volume Manufacturing
- Design for Manufacturing
- Supply-Chain Development
- Electronics and Controls

LG FCS - Entry into Service





1MW SOFC-GT Hybrid Power System

- Nominal 1MW SOFC System but scalable from 250kW to >20MW
- High availability for base load operation operating on natural gas
- **Over 2000 hours of system operation**
- **Electrical efficiency near 60%**

