

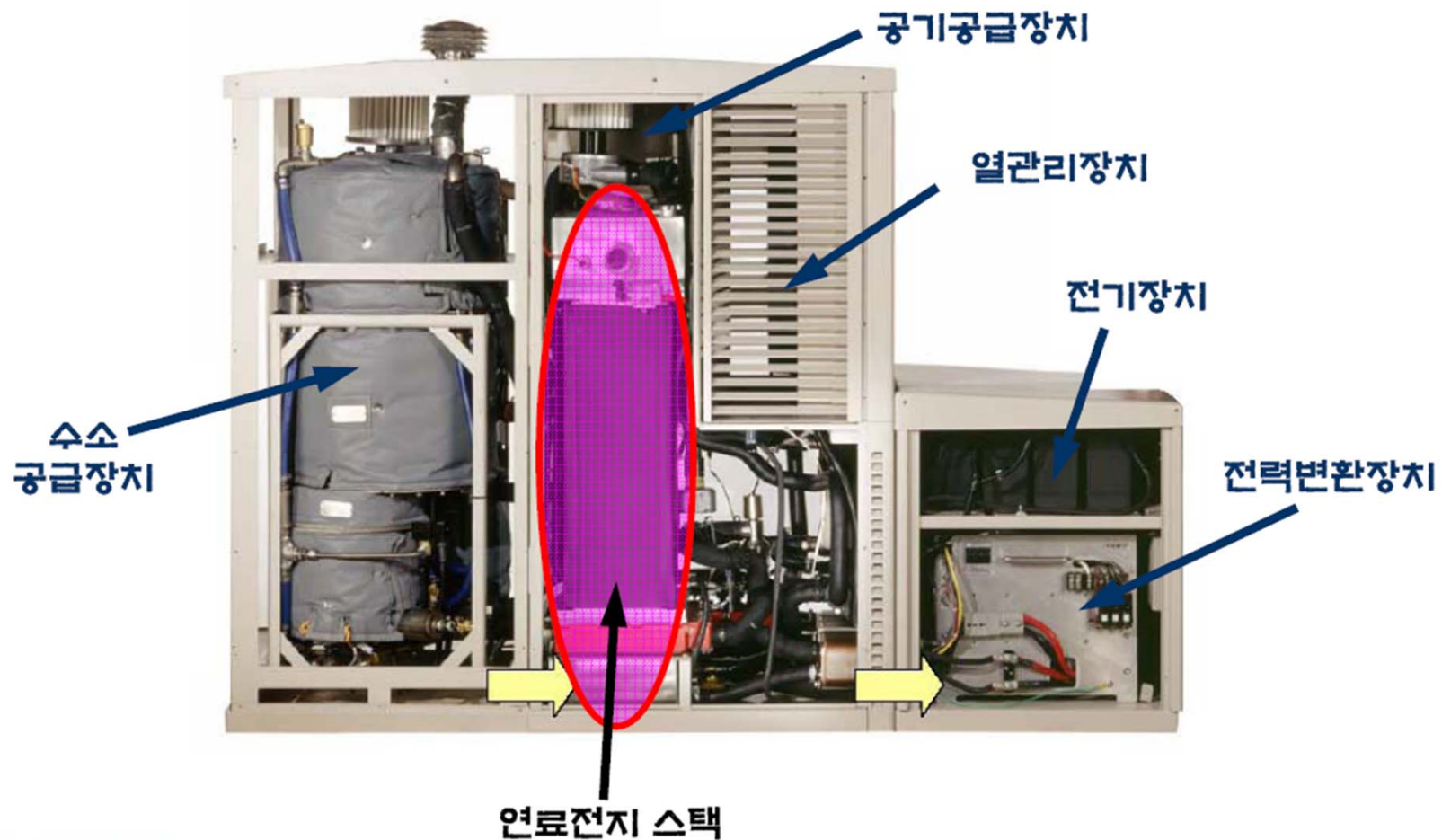
연료전지-가스터빈 하이브리드 시스템 개발

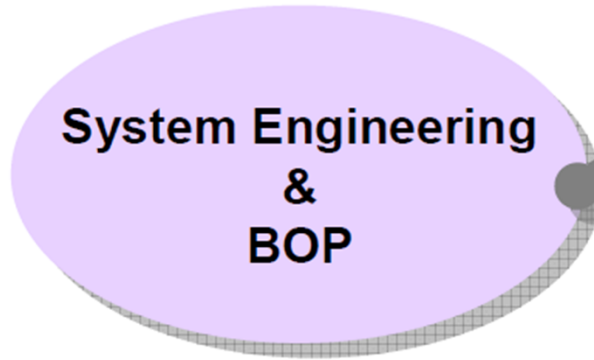
연료전지 BOP 기술 (5)

2014. 하반기 IP (5)



- ❖ BOP (Balance of Plant) : 스택을 제외한 나머지 구성부품을 지칭함.
스택과 전체 시스템을 운영하는 역할을 수행

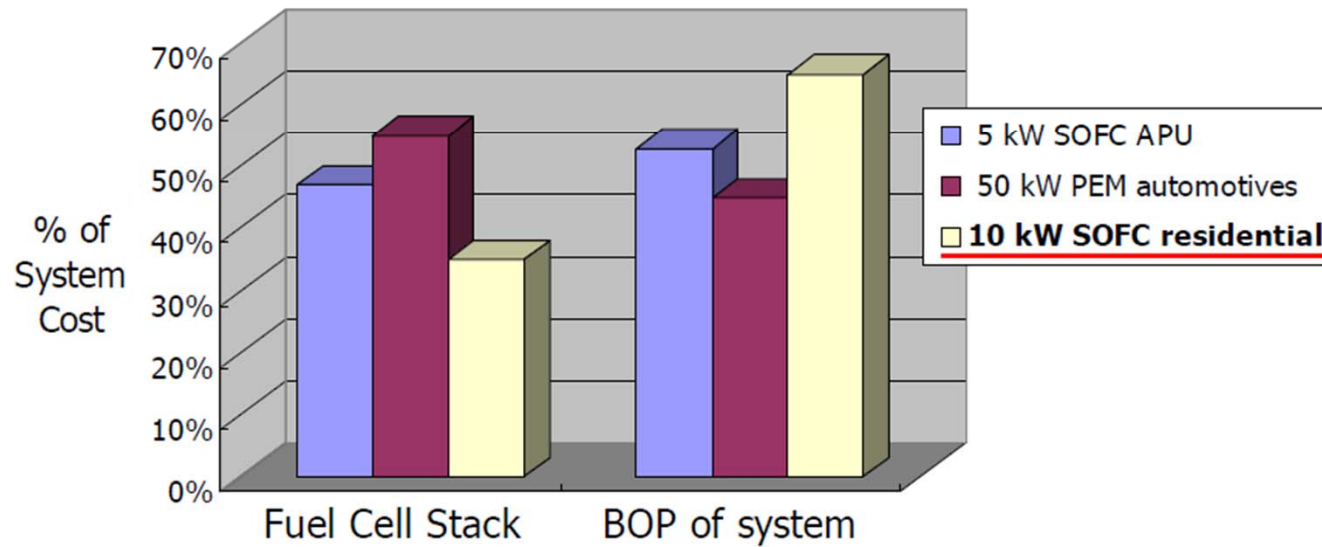




- System Cost
- System Reliability
- System Efficiency
- And so on...
-

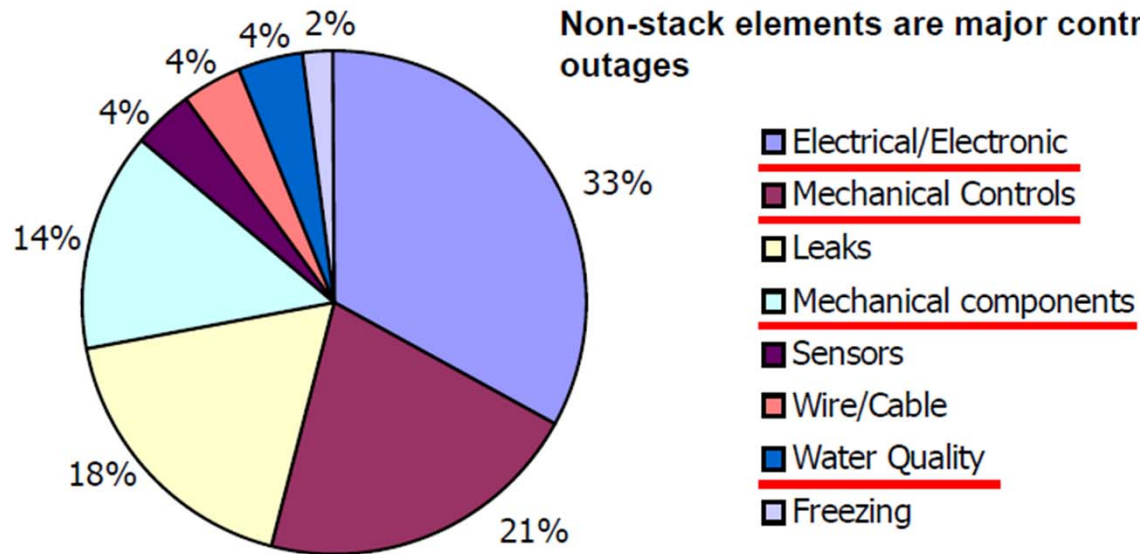
1. System Cost

BOP represents 45~65% of Fuel Cell System Cost





2. System Reliability



3. System Efficiency

Non-stack(BOP) components have significant efficiency losses

- Fuel Processor : 60~85 %
- Fuel Cell Stack : 40~60 %
- Mechanical : 95 %
- Power conditioner : 93~96 %
- Power distribution : 99 %



일본 가정용 연료전지 비용 및 향후 전략

연료전지 BOP 기술

