

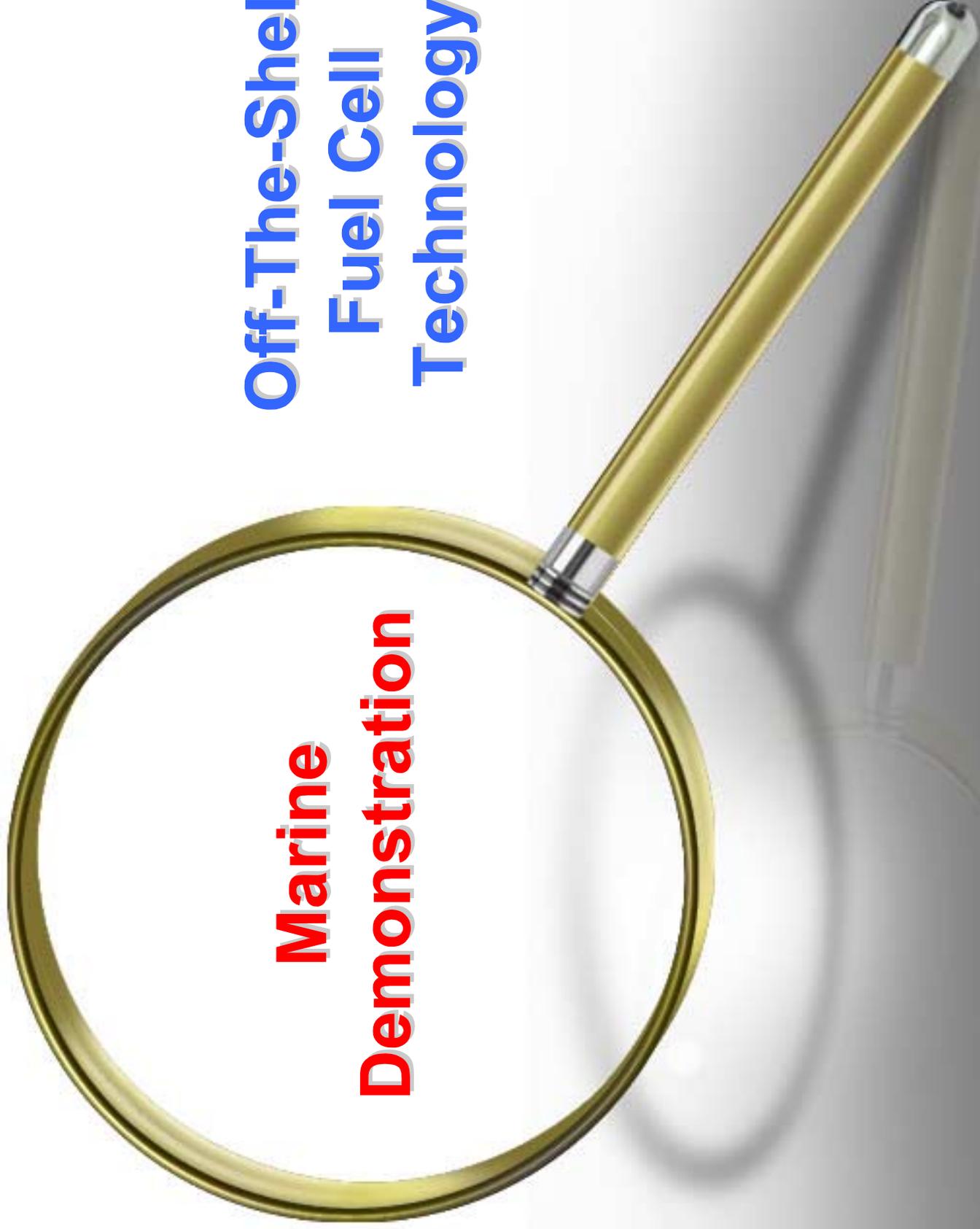


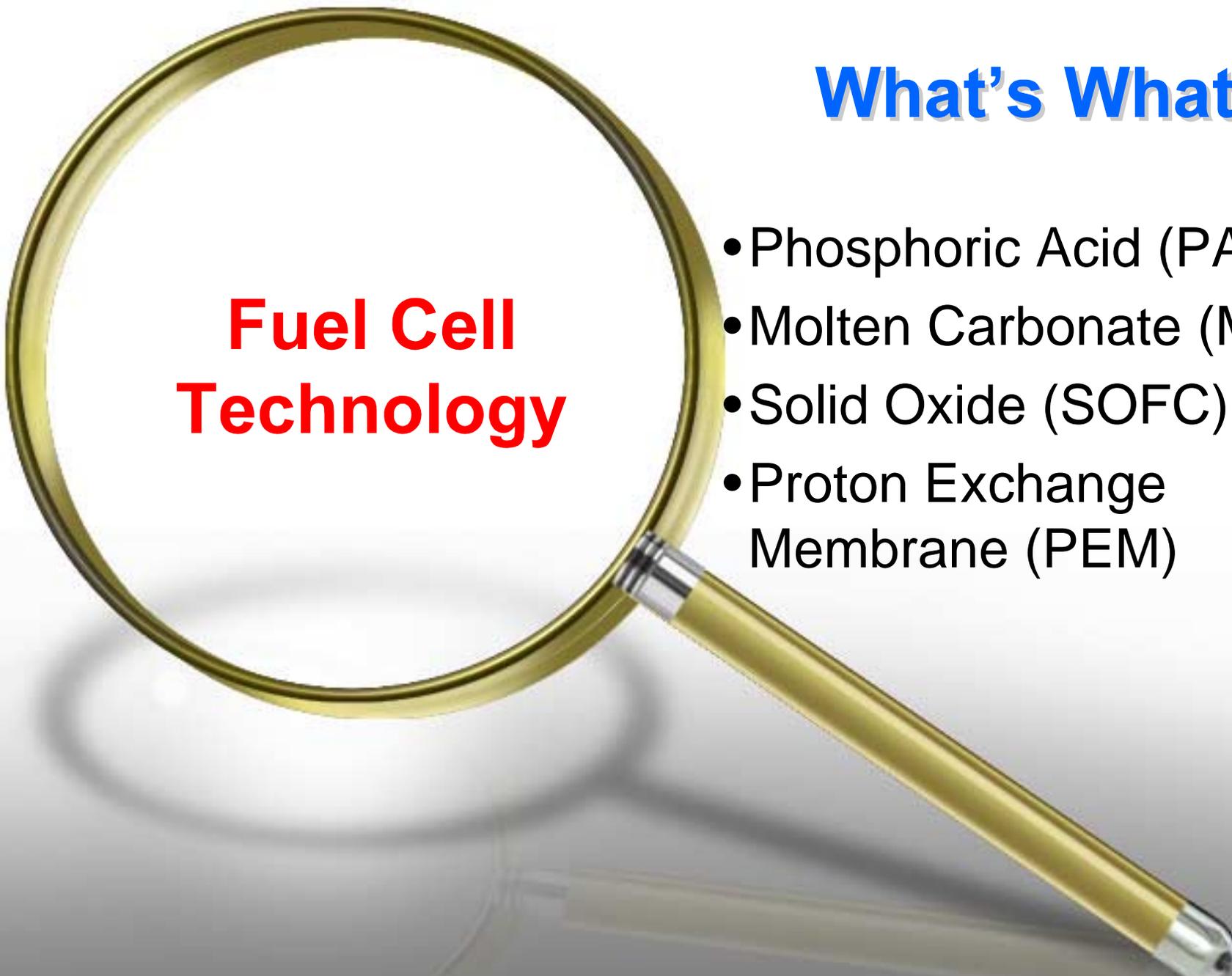
Marine Fuel Cell Demonstration

*William E. Cratty
Executive Vice President
Chief Technology Officer*

Off-The-Shelf Fuel Cell Technology

**Marine
Demonstration**

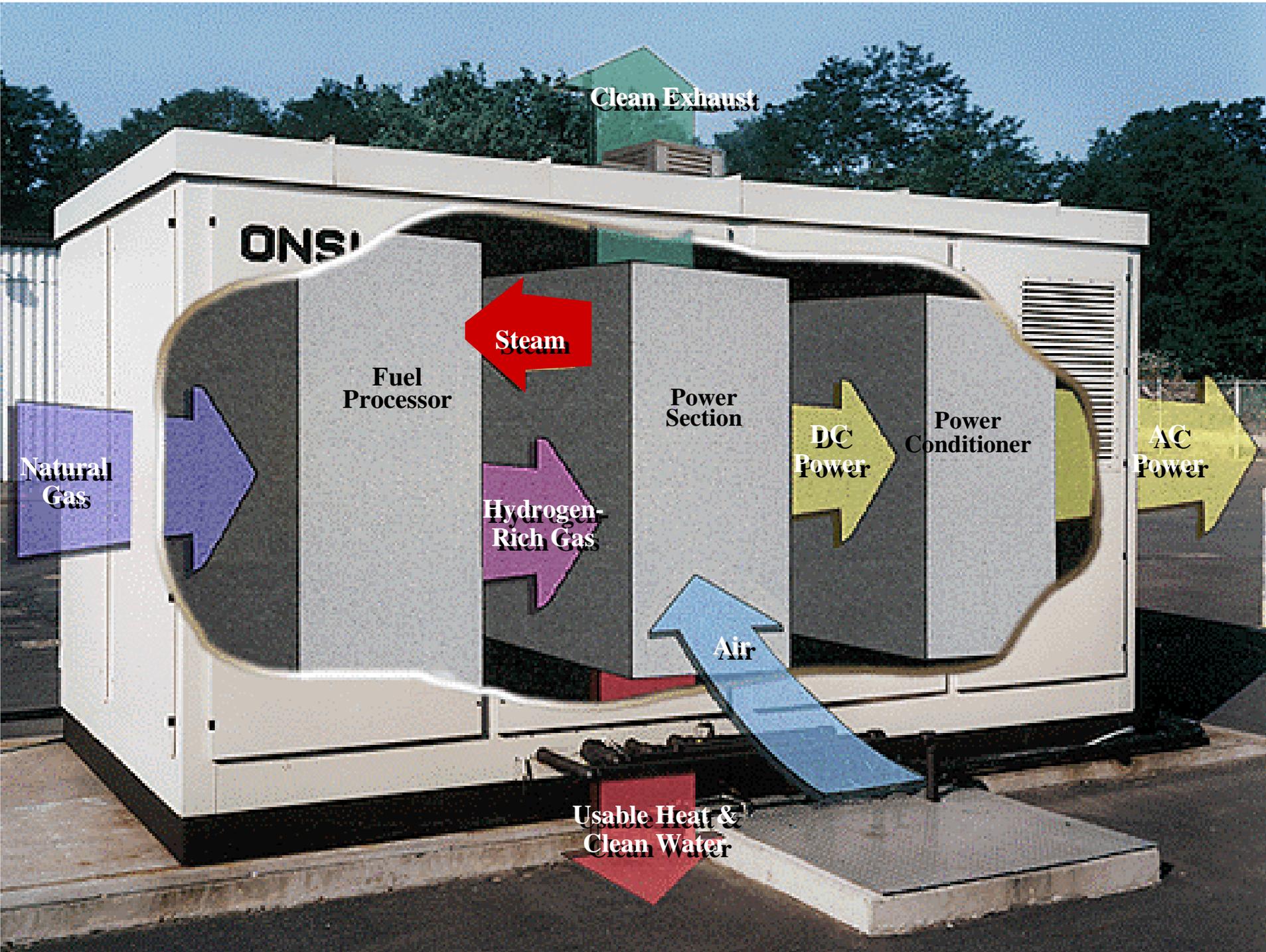




Fuel Cell Technology

What's What

- Phosphoric Acid (PAFC)
- Molten Carbonate (MCFC)
- Solid Oxide (SOFC)
- Proton Exchange Membrane (PEM)



A magnifying glass with a gold-colored frame and handle is positioned over a white, rectangular fuel cell unit. The unit has the letters 'ONSI' printed on its side and a small control panel. The background shows a clear blue sky and some green foliage. The magnifying glass is held at an angle, casting a soft shadow on the surface below it.

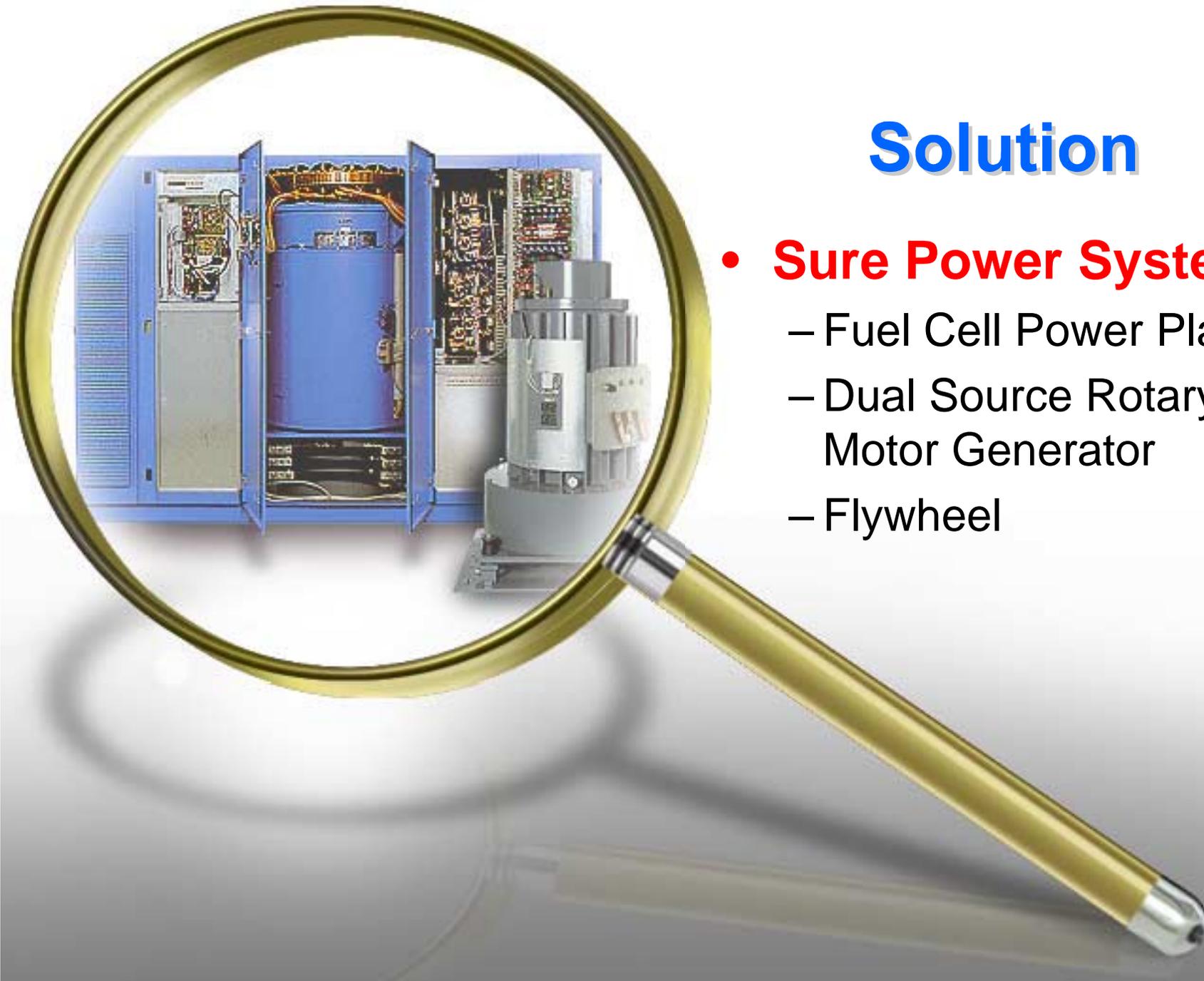
Fuel Cells Pros

- Few Moving Parts
- High Efficiency
- Low M & R: Do While Operating
- Chemical Process = No Emissions
- Unattended Operation

Fuel Cell Cons

- Not A Stiff Generating Source
 - Minimal fault clearing current
 - Limited step load capability
 - Limited ability to handle transients
 - Minimal load unbalance capability
 - No over load capacity
- Can't Black Start





Solution

- **Sure Power System**
 - Fuel Cell Power Plant
 - Dual Source Rotary Motor Generator
 - Flywheel

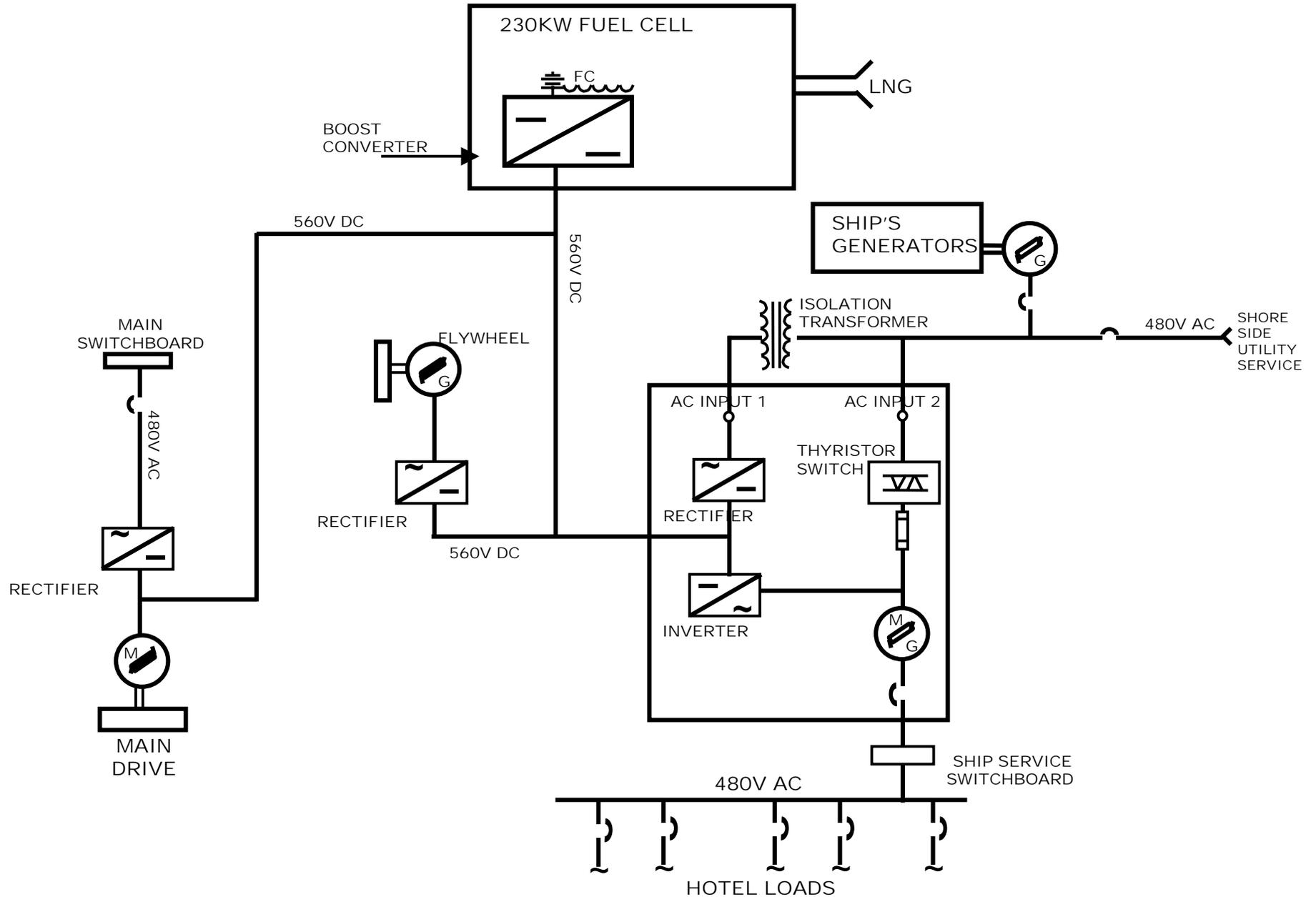


**Can Fuel Cells
Function Properly
and Reliably in a
Marine
Environment?**

T/V Kings Pointer Demonstration



T/V KINGS POINTER DEMONSTRATION





Issues

- Seaworthiness
- Operation and Maintenance
- Fuel Supply

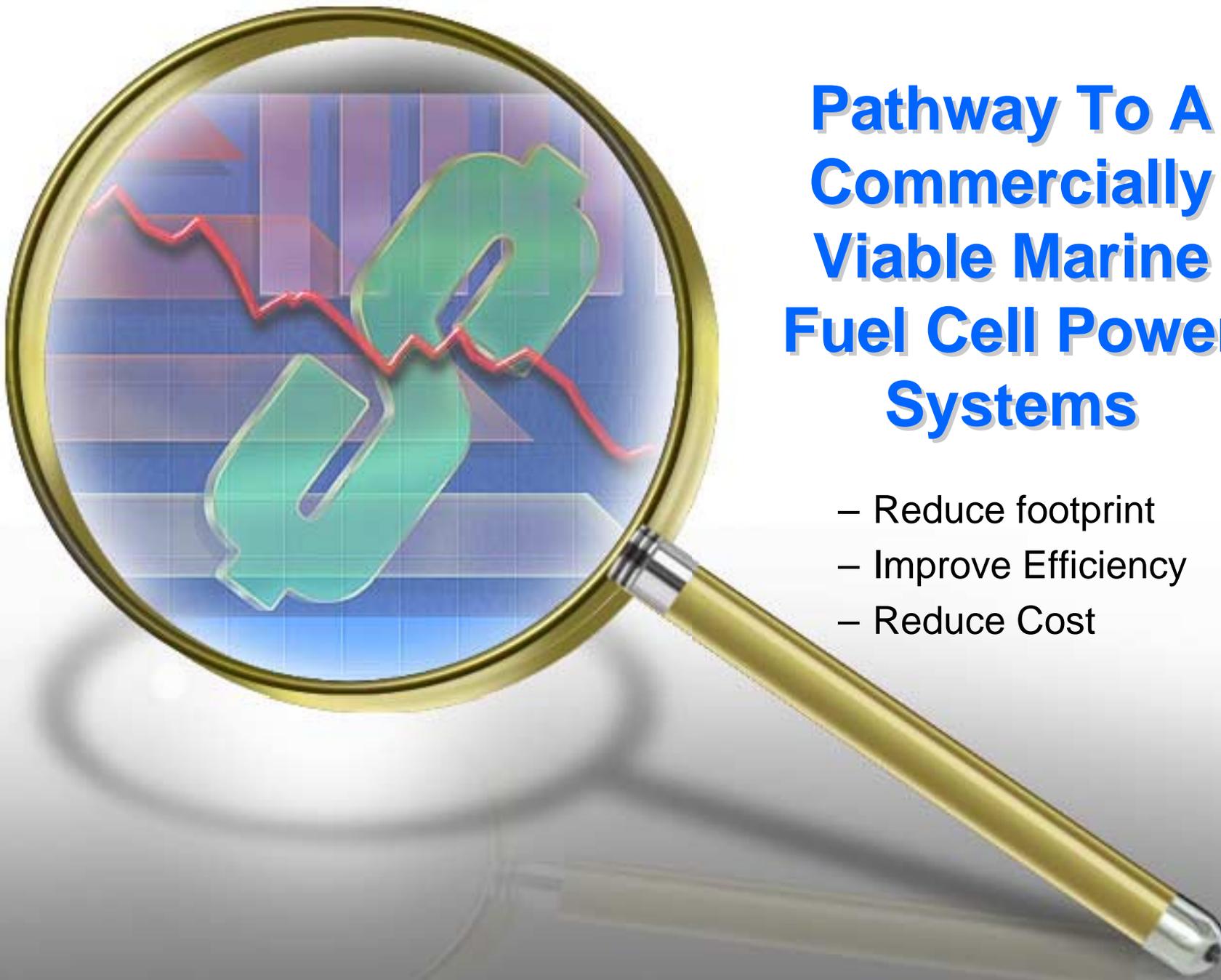


The Next Step

Diesel Fuel Reformer Demonstration

*McDermott
Technology, Inc.*

Naval Distillate
Reforming for Navy
Ship-Service
Applications



Pathway To A Commercially Viable Marine Fuel Cell Power Systems

- Reduce footprint
- Improve Efficiency
- Reduce Cost

Sure Power High Availability System

Powering the Internet



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