

Alternative Applications for Fuel Cells

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Ranking Criteria

- Value to Nation
 - Energy Security
 - Climate Change
 - Clear Skies
 - Hydrogen
 - FutureGen
- Probability of Success
- Cost of Development
- Short vs. Long Term

Alternative Choices

- Co₂ Sequestration Ready
- Regenerative FC (Multi-fuel)
- Hydrogen Co-production
 - Electrochem Compression
- Chem-bio/National Security
- Chemical Co-production
 - Syngas (methanol)
 - CO₂ Electrolysis to CH₄
 - Metal Refinement
 - Low Quality Fuel Upgrade

Alternative Choices

- Energy Storage
- FC – Direct Carbon Fuel Cell
- Sensors
- Prime Propulsion for 24/7 Transportation Systems
- Hybrid Systems

Rankings for Alternatives

Rank	Score
• Hydrogen Co-production	75
• Energy Storage	41
• Hybrid Systems	41
• Chemical Co-production	31
• Prime Propulsion	29
• FC – Direct Carbon Fuel Cell	20
• Co2 Sequestration Ready	15
• Regenerative FC (Multi-fuel)	13

Alternative Applications

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