



PureCell® Solution Advantages

Energy Productivity

- System efficiencies increased to 90% (33% for traditional power sources)
- Energy costs reduced
- Natural resources conserved

Energy Security

- Continuous operation provided
- Business services protected
- Community safety enhanced

Energy Responsibility

- Carbon footprint reduced
- Water conserved
- Harmful emissions minimized
- Sound pollution eliminated

Proven Experience

- 50 years of fuel cell experience
- Sole fuel cell supplier to NASA for manned space missions for over 40 years
- Over 1.3 billion kilowatt hours of commercial fuel cell operation



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• Energy Responsibility

The Mohegan Sun tribe's dedication to the environment doesn't end with their energy choice. They are also dedicated to their community. The indoor installation is open to the public, allowing visitors to view the fuel cells and learn about the benefits of the technology.

Mohegan Sun provided most of the funding for the project, with the assistance of the Department of Energy (DOE).



The Mohegan Sun is proving that sustainability makes economic sense. While reducing its carbon footprint, it's also conserving natural resources. The UTC Power fuel cells will reduce the resort's carbon footprint by 1,500 tons each year. To achieve the same positive environmental impact, 320 acres* of forest would need to be planted.



The power generated by a megawatt of fuel cells saves over 4 million gallons† of water each year that would otherwise be wasted by conventional electrical generation. That's enough water to fill more than 6 Olympic-size swimming pools. Water conservation is especially important as humanity battles to conserve precious water resources.



Reduction of harmful emissions like nitrogen oxides (NOx), is yet another environmental benefit of fuel cell technology. NOx emissions will be reduced at Mohegan Sun by almost 6 tons each year, which equates to the same environmental benefit as removing 290 cars‡ from the road.

* Each acre of forest assumed to absorb 1.3 ton of carbon per year (Ref: Intergovernmental Panel on Climate Change).

† Based on the average use of 500 gal/MWhr of power generation plants in the U.S. (Ref: U.S. Geological Survey).

‡ Each car assumed to generate 38 lb NOx/year (Ref: U.S. EPA).



UTC Power

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1.866.900.POWER www.utcpower.com