

Project Profile

Entertainment Application



PROJECT OVERVIEW

EQUIPMENT

PureCell® Model 440 combined heat and power solution

INSTALLED

1320 KW, December 2018

LOCATION

Long Beach, California

PROVIDES

- Continuous power for electrical needs
- Heat recovery application in a 135-ton absorption chiller and domestic hot water

Aquarium of the Pacific

ACHIEVING ENTERTAINMENT SUSTAINABILITY OBJECTIVES WITH CLEAN, AFFORDABLE ON-SITE ENERGY

The Aquarium of the Pacific (AOP) is the fourth most-attended aquarium in the United States. It displays over 11,000 animals in more than 50 exhibits that represent the diversity of the Pacific Ocean. Each year more than 1.5 million people visit the Aquarium. AOP has recently completed the installation of a 29,000 square foot immersive theater and an expansive gallery of live animals with interactive media.

BioFuels Energy, LLC (BFE), an energy developer, has installed (3) Doosan PureCell fuel cells at AOP to provide approximately 11.5 million kilowatt hours of electricity representing 70% of the Aquarium's usage along with providing free heat from the fuel cells for cooling the fish tanks and providing domestic hot water. BFE's fuel cell system is estimated to save AOP in excess of \$200k in combined electricity and natural gas savings.

Yearly Environmental Benefits (compared to traditional energy sources)

- CO2 saved: 2.2 million lbs.
- H2O saved: 4.7 million gallons
- NOx saved: 9.257 lbs.