

McGuire Nuclear Station



McGuire Nuclear Station is located on Lake Norman in Mecklenburg County, N.C. Lake Norman — the state's largest man-made lake — was built by Duke Energy in 1963 by damming the Catawba River with Cowans Ford Hydroelectric Station. The lake provides cooling water for both McGuire and Marshall Steam Station.

McGuire was the second of three nuclear stations designed, built and operated by Duke Energy. Unit 1 began commercial operation in 1981, followed by unit 2 in 1984. Today, Duke Energy's nuclear fleet provides electricity to approximately half of its customers in the Carolinas, with production costs among the lowest in the nation.

Duke Energy nuclear power plants operate at a very high level of security every day. McGuire was designed and built with redundant safety systems and multiple barriers to protect the public, plant workers and the environment.

Located at McGuire Nuclear Station, Duke Energy's EnergyExplorium offers educational activities and interactive exhibits for visitors interested in learning more about electricity generation, Duke Energy and Lake Norman. This energy education center also regularly hosts free, family-friendly events.

Quick Facts

- Station cost: *\$2 billion*
- Station capacity: *2,200 megawatts*
- Number of units: *2*
- Groundbreaking: *1971*
- Commercial operation: *unit 1 – 1981; unit 2 – 1984*
- Reactor type: *pressurized water reactor (PWR)*
- Fuel: *uranium dioxide*

EnergyExplorium

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