

North Carolina Municipal Power Agency Number 1 (NCMPA1)



NCMPA1 consists of 19 cities and towns in piedmont and western North Carolina, including some of the largest areas of economic growth. NCMPA1 Participants serve approximately 164,000 customers.

Governance

NCMPA1 is governed by a Board of Commissioners (BOC). Each Participant appoints a Commissioner and an Alternate Commissioner to the BOC. The BOC monitors operations of the Power Agency, approves the annual budget and elects their representatives to the Electricities Board of Directors (BOD). The BOC meets quarterly.

The Electricities BOD provides oversight of NCMPA1 operations. The Electricities BOD meets monthly and consists of 14 individuals elected from member cities throughout North Carolina.

Nuclear Plant Ownership

NCMPA1 owns a portion of the Catawba Nuclear Station, operated by Duke Energy. NCMPA1 has an on-site manager at Catawba to oversee operations and represents its interests. Staff also regularly attends owners' meetings and is included in all capital improvement planning.

Surplus Energy Program

Several years ago, NCMPA1 implemented its own power supply resource scheduling and power marketing in order to maximize the value of surplus Catawba energy in the wholesale market. Annually, the surplus energy program results in revenues in excess of \$84 million for the Power Agency.

Fossil Generation

NCMPA1 owns 34 diesel generators located on city electric systems. These units, totaling 65 MW, are operated remotely on short notice during periods of high demand and high market prices. Seventy-one megawatts of city-owned and customer-owned generators are also under remote control operation. This combination of 136 MW of remotely operated, fast-start units provides great operational flexibility for NCMPA1's power supply program.

NCMPA1 recently began work on a project to install two gas turbine generators that will provide 24 MW of peaking and reserve capacity. These two generators, which will be connected to the City of Monroe's electric system, are

scheduled to be in service in September 2009. Just as with the diesel Distributed Generation units, the gas turbine generators will be operated remotely on short notice during periods of high demand and high market prices.

Participant Map



Renewable Energy and Energy Efficiency Programs

Under North Carolina's Renewable Energy and Energy Efficiency Portfolio Standard (REPS), NCMPA1 member cities must obtain up to 10 percent of their energy through renewable energy or energy efficiency resources by 2018.

The REPS requirement begins in 2012 at 3 percent of retail sales, increases to 6 percent in 2015 and 10 percent in 2018 and beyond. NCMPA1 executed the following contracts in 2008 for the purchase of RECs as part of its compliance plan:

NCMPA1 purchased and received 40,000 MWh (RECs) from Scurry County Wind, a Texas wind farm.

NCMPA1 agreed to purchase 100,000 MWh (RECs) per year three years from Craven County Wood.

In addition to REC purchases, NCMPA1 has been actively developing Energy Efficiency programs as another key component of the renewable portfolio. The new programs were introduced by NCMPA1 Participants in 2009:

High Efficiency Heat Pump Rebate Program

Energy Star Home Rebate Program

Commercial/Industrial RFP (request for proposals) for Energy Efficiency Projects

Commercial Solar Thermal Rebate Program

City Energy Efficiency Projects

LED Demonstration for Grocery Refrigeration Cases

Low-Income Weatherization Assistance Rebate Program