# RY THE NUMBERS The latest statistics for Walton EMC

125,015 customer-owner accounts

average monthly kilowatt-hours used per account

\$190,082,493

cost of power purchased by Walton EMC in 2015

93%residential customer-owners

miles of electric lines

percentage of overhead lines

percentage of underground lines

\$135.29 average residential bill

\$636.24 average commercial/industrial bill



# **SPECIAL EDITION: OUR ENERGY**



Meeting your energy needs A MESSAGE FROM CEO RONNIE LEE

We know you want two main things from your electric cooperative.

Walton EMC

First, you want the power to come on when you flip the switch. Second, you want a reasonable electric bill.

Over the next nine years, 1.8 million more people will move into our state. By 2025, Georgia's

population is expected to grow to almost 12 million. Most of that growth will take place in suburban and rural areas, just like Walton EMC's service territory.

Like those of us who have called this home for a while, our new

neighbors will also want dependable electric service. At the same time we're demanding more energy, we're also calling for less environmental impact in producing that energy.

Keeping the dependable electric service we all desire requires a balanced approach. We've all heard claims that one type of energy source or another is the solution to our energy quandary.

The truth is, there is no magic solution. It will require all of our energy resources to meet your needs, including natural gas, renewables, coal, nuclear and hydro.



As a customer-owned cooperative, you know that Walton EMC has always been up front with you. As new energy sources are built and come online, there will be higher costs associated with them. This will impact your electric bill, maybe as early as 2019.

**Fuel diversity** is important in maintaining our energy security.

> deliver your electricity at the lowest possible cost. That hasn't changed and never will. Even with any increases, you should continue to have some of the most reasonable electric rates in both Georgia and the United States.

Watch our newsletter and website over the coming months and years for more updates on power supply and cost forecasts. If you have any questions or concerns about any aspect of your electric service, don't hesitate to contact us here at Walton EMC.

Q: Why don't we just conserve energy so we won't have to build new power plants?

A: Although conservation helps, it alone will not be enough to meet Georgia's growing demand for electricity.

The news you need to know in 5 minutes!

We're actually taking measures right now, three years in advance, to offset some of the expected increases associated with any new energy sources that come online.

You also know that we have always done - and will continue to do – everything we can to

### **QUICK GUIDE**



**IF YOUR POWER IS OUT** 

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770.267.2505 waltonemc.com > Report an Outage

**Valton** EMC

valtonemc.cor

### **FIND US**

Phone 770.267.2505

In person Monroe – 842 US Hwy. 78



Snellville - 3645 Lenora Church Rd. Watkinsville - 2061-D Hog Mountain Rd. Web waltonemc.com Facebook facebook.com/waltonemc Twitter twitter.com/waltonemc YouTube youtube.com/emctv

#### WHEN WE'RE AVAILABLE

Power Outages and Emergencies > 24/7 Contact Center > M–F, 7A–7P Business Offices > M-F, 8A-5P



#### **EMC LEADERS**

CEO Ronnie Lee Sr. VP Corporate Services Russell DeLong Sr. VP Engineering & Operations Ron Marshall Sr. VP Power Supply Robert Rentfrow Sr. VP Finance Marsha Shumate Board Chair Dan Chelko Board Vice Chair Michael Lowder Board Sec./Treas. Johnny Allgood **Board Members** Tommy Adcock, Billy Ray Allen, Warren Few, Sam Simonton, Dawn Taylor, Jim Whitley

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#### **NEED NATURAL GAS SERVICE?** 770.GAS.HEAT > waltongas.com



#### **NEED SECURITY SERVICE?** 770.963.0305 > emcsecurity.com

©2016. Walton EMC is a customer-owned power company. That means our cooperative focuses on service, not profit. We serve more than 125,000 accounts in Athens-Clarke, Barrow, DeKalb, Greene, Gwinnett, Morgan, Newton, Oconee, Rockdale and Walton Counties. Our subsidiaries supply natural gas and security services.

### **ELECTRICITY SNAPSHOT:**

# Where does your electricity come from?

Take a look at the different sources Walton EMC used to supply your electricity this June. These sources and their amounts change monthly depending on factors like price, weather and generating plant outages.

It may surprise you to know that natural gas has taken the place of coal to generate the majority of electricity distributed in Georgia.

Changes in technology have brought about abundant and economical supplies of natural gas. Changes in greenhouse gas regulations are making many coal plants too expensive to operate or retrofit.





Type: Intermediate • Supply: Abundant Input Fuel Cost: Low • Reliability: Moderate Construction/Renovation Cost: High Greenhouse Gases: Low Cost of Produced Energy: Moderate Renewable? Yes • Outlook: Steady Example: Taylor County Landfill Gas Facility east of Columbus



Latest Walton EMC's newest solar facility, a few miles south of Monroe, began production this May.



Type: Intermediate Supply: Abundant

Program

Input Fuel Cost: None • Reliability: High Construction/Renovation Cost: High Greenhouse Gases: None Cost of Produced Energy: High but decreasing Renewable? Yes • Outlook: Use increasing Example: Walton EMC's Cooperative Solar

### **TYPES OF POWER PLANTS**

Base Plant The backbone of the electric generation system, these plants are built for economy, durability and reliability rather than speed. Base plants provide the constant base of power needed around the clock throughout the year. It takes time to bring them up to full power and shut them down. In Georgia, most base plants are nuclear.

Intermediate Plant Intermediate plants can operate for extended periods of time, but don't generally run all the time

Peaking Plants Operate when electricity use is at its peak. These plants can be brought online and taken offline quickly in response to temperature. In Georgia, electrical peaks usually occur on hot summer afternoons because of air conditioning. Natural gas is a common fuel for peaking plants.

### **Fast Facts**

- New systems at Plant Scherer, a coal-burning plant near Macon, remove 80 percent of mercury and 99 percent of the particles from the plant's emissions.
- The new Scherer systems

also reduce sulfur dioxide emissions by 95 percent and nitrogen oxide emissions by 85 percent.



Plant Sherer has the capability to supply enough electricity to power 1.5 million homes.





Type: Base Supply: Abundant Input Fuel Cost: Low Reliability: High Construction/ **Renovation Cost:** High Greenhouse Gases: Significant Cost of Produced Energy: Low **Renewable?** No Outlook: Use decreasing Example: Plant Scherer near Macon

### **Fast Facts**

• Nuclear energy is the only power source that consistently produces electricity 24/7 without creating greenhouse gas emissions.

## gave the state Buford Dam in Administration. Walton EMC rustomer-owners generators.

# HYDRO

Type: Base, Peaking Supply: Limited Input Fuel Cost: None **Reliability: Moderate** Construction/Renovation Cost: High Greenhouse Gases: None Cost of Produced Energy: Low **Renewable? Yes Outlook: Steady** Example: Buford Dam on Lake Lanier

The U.S. government \$750,000 to build 1941. Through the Southeastern Power receive some of the lectricity from its



• When Units 3 and 4 at Vogtle Nuclear Plant near Augusta are complete, Vogtle will be the largest nuclear generating station in the U.S.



Vogtle Units 3 and 4, now under construction, are expected to begin producing greenhouse gas-free power in 2019 and 2020.



Type: Base • Supply: Abundant Input Fuel Cost: Low **Reliability: High** Construction/Renovation Cost: High Greenhouse Gases: None Cost of Produced Energy: Low **Renewable?** No **Outlook: Use increasing** Example: Plant Vogtle near Augusta

Plant Doyle draws the natural gas it uses to generate electricity directly from a large interstate gas pipeline.

# 59% **NATURAL GAS**

Type: Base, Peaking Supply: Abundant Input Fuel Cost: Low **Reliability: High Construction/Renovation Cost: Low Greenhouse Gases: Low** Cost of Produced Energy: Low Renewable? No Outlook: Use increasing Examples: Plant Doyle near Monroe

### Fast Fact

• According to the natural gas-fired electricity generation is expected to account for 80 percent of all new electricity generation by 2035.

• Walton EMC's Cooperative Solar program, the first of its kind, is serving as a model for co-ops all over the nation interested in adding solar electricity generation to their portfolios.