VOGTLE

Community Connection

SPRING Southern Nuclear 2019

Historic day at Plant Vogtle 3 & 4 construction site

Plant Vogtle personnel placed the top on the Unit 3 containment vessel March 22, signifying that all modules and large components have been placed inside the unit. The containment vessel houses the unit's reactor vessel and associated equipment.

The containment vessel is a high-integrity steel structure that houses critical plant components. The top head is 130 feet in diameter, 37 feet tall, and weighs nearly 1.5 million pounds, more than two fully loaded jumbo jets. 58 large steel plates, each more than an inch and a half thick, were welded together to construct the top head.

Follow the progress being made at Plant Vogtle through Georgia Power's website and social media channels.

The placement of the Unit 3 containment vessel top head marks a significant milestone in the Vogtle 3 & 4 project.

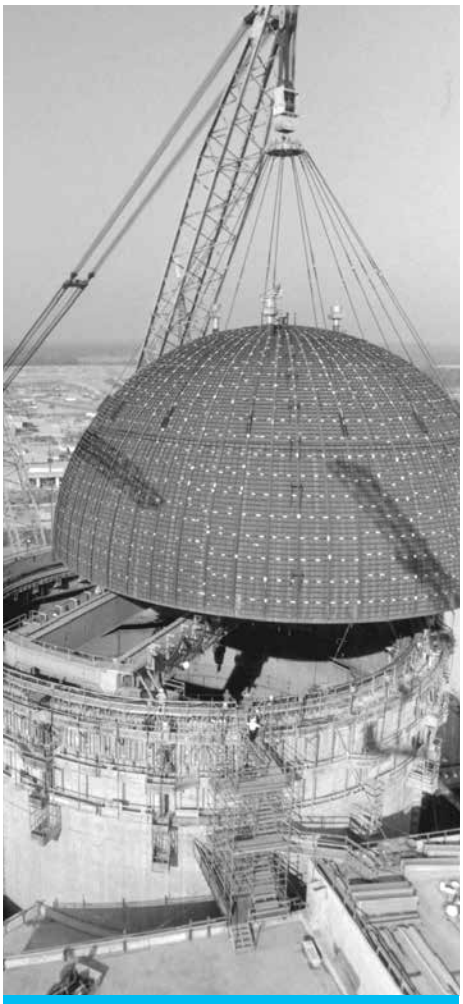
Hello, sunshine!

Azaleas are in full bloom and the fish are biting — it must be spring in east Georgia!

At Plant Vogtle, we all know our families, friends and neighbors are enjoying a busy season packed with fun and celebrations. Somewhere between activities, we hope you can find a few minutes to catch up with us to see the many ways we are staying plugged into our surrounding communities.

Please remember to follow us on social media for the latest information at Vogtle and the rest of the Southern Nuclear fleet.

As always, we thank you for your continued support and hope to see you soon.



A look back

The containment vessel top head is placed on Vogtle Unit 1 circa 1984.

Be prepared

You need to know what to do in the unlikely event of an emergency at our station, and Southern Nuclear has many communication forms to ensure you're prepared. Scan the QR code to visit our Emergency Preparedness website to get the information you need on your mobile device anytime, anywhere.

Additionally, there are pole-mounted sirens throughout the 10-mile Emergency Planning Zone around the site that would alert residents in the unlikely event of an emergency. Residents in the EPZ also receive an EP Calendar every year in the mail and last year received a keycard with a QR code that links to the Emergency Preparedness website.

Finally, the CodeRED Emergency Notification System may be used to contact residents by phone in the event of an emergency. Contact your local emergency management agency for more information on CodeRED.

Ready for summer? We are!

As you would expect, quite a bit takes place behind the scenes for us to enjoy the benefits of having readily available electricity.

Electricity generated at power plants typically travels through many miles of wires – essentially at the speed of light – and through several transformers before reaching your light switch. The electricity we use originates from a multitude of electricity generating facilities and the electrical energy we're using at any given time is being generated at that very moment. The electrical energy available in the wires is called the grid.

In the Southeast, people use the largest amount of electricity for heating and cooling homes and businesses, followed by heating water, using appliances and lighting. Knowing that, it is no surprise that the highest demand for electrical energy is during the summer and winter.

Nuclear energy

The minimum level of electricity demand at any given time is the system's baseload requirement. Above this base level are intermediate and peak levels of electricity demand (see graph). To meet these variations, companies like Georgia Power and Alabama Power operate a variety of power plants.

Baseload energy providers, including nuclear plants, are used to meet the largest, constant demand for electricity. These facilities must produce electricity continuously throughout the year, stopping only for refueling or occasional maintenance, and must run reliably and produce power at a relatively low cost.

Baseload electric generating facilities are truly the workhorses of our electricity system.

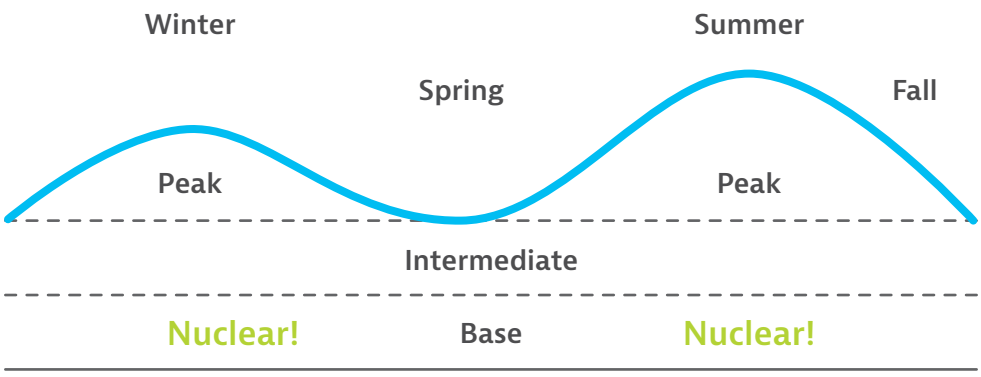
Two benefits of nuclear energy as a baseload power source are its low operating costs and ability to continuously operate at full power. Other advantages include nuclear fuel that only needs replenishing once every 18 to 24 months and no carbon emissions.

Since nuclear-powered electric generating facilities are likely among the largest in an electrical system, they also contribute significantly to the stability of the electric grid. The predictability of nuclear plant operations, with planned outage schedules known well in advance and a very low incidence of unexpected shutdowns, adds to grid reliability to meet the electricity demands to keep you cool during the summer.

Appreciating electricity

Despite its great importance in daily life, few people realize that electricity has been widely available for only about 100 years. We often take electricity for granted and rarely stop to think about what life would be like without electricity — until we lose electricity for what may feel like a long time after a storm.

But rest assured, Southern Nuclear employees, along with the regional distributors of electricity in the area, will work to ensure a reliable supply of electrical energy to you this summer, 24 hours a day.



How can Plant Vogtle help your school or organization?

Our charitable giving program supports qualified schools and 501(c)(3) organizations that serve the needs of the community. Call 706-724-5197 to learn more about our program and discuss how we can partner.

Follow us on social media

@SouthernNuclear

Plant Vogtle supports Burke County Schools

Plant Vogtle is proud to call Burke County home, and nearly 1,500 Southern Nuclear employees greatly appreciate the backing of our local community.

Nuclear professionals from Plant Vogtle regularly partner with local schools and interact with hundreds of students and teachers. Funding was also provided last year to the Burke County High School Energy and Power Pathway (see photo), the Burke County Middle School STEM (Science Technology Engineering Mathematics) program and Burke County Communities in Schools.

Shown in photo are personnel from Southern Nuclear, Georgia Power and Burke County Public Schools as well as students from Burke County High School. All the best to the Burke County Bears!

The sun sets through a group of pines at Plant Vogtle.

Southern Nuclear

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For more information on Plant Vogtle
call **706-848-9961** or email us at **veec@southernco.com**.