



## **December 2022 ATVG Newsletter**

### **TVA Releases 2022 Annual Report**

The Tennessee Valley Authority published its Fiscal Year 2022 Annual Report, providing a comprehensive view into the agency's leadership efforts in building a clean energy future, attracting high-value jobs and investment, and being a steward of our region's environmental resources for the 10 million people who call the Tennessee Valley home.

The annual report themed – “Building the Future, Together” -- focuses on the people of TVA and the partnerships they have developed with our customers and community organizations across the Tennessee Valley. It highlights TVA's 2022 accomplishments as the agency continues to deliver on its commitment to provide affordable, reliable, resilient, and clean energy to its customers while upholding its mission of service to the people of the Valley and nation. Jeff Lyash, TVA president and CEO, shared his excitement about the accomplishments of our employees this past year.

“It's a time of challenges and opportunities, a time when the innovative spirit of our workforce will be called upon to solve complex challenges and open the door to new ways of thinking,” he said. “It's the beginning of a highly emergent period in the development of our nation's clean energy future, and TVA is helping lead this transformation.”

Key accomplishments include:

- Helped attract and encourage the expansion of business and industries in the Tennessee Valley, with more than \$10.2 billion in proposed investments and approximately 66,500 jobs expected to be created or retained in 2022 while maintaining flat wholesale base rates since 2019.
- Provided \$3.2 million in school efficiency grants and \$1 million in STEM grants to enhance learning for our region's youth.
- Upgraded more than 3,700 homes through TVA Home Uplift since 2018 for low-income residents – helping them save as much as \$500 a year on their power bills.
- Responded quickly to rebuild the electric grid after the unbelievable devastation from the violent tornadoes that raged across western Kentucky and ice storms that cut power in western Tennessee.
- Carried out 120 biodiversity projects to protect the region's many unique plant and animal species.
- Issued one of the nation's largest carbon-free energy requests – 5,000 megawatts that must be operational before 2029.
- Led the way for advanced nuclear technology, applying a systematic approach to exploring technologies and potential locations for advanced nuclear reactors.
- Electrified transportation by starting to install the region's premier electric vehicle fast charge network and bringing the first electric school bus to Tennessee.
- Completed TVA's largest ever dam safety project – the \$326 million Boone Dam Remediation Project – after seven years and 2 million hours of work.
- Created a multidisciplinary Environmental Justice team to develop a framework to better identify disadvantaged communities and meet their needs.
- Made progress in key programs to promote DEIA within its workforce and improve accessibility and Inclusion with Diversity initiatives within the communities TVA serves.



### **Small Modular Reactors Technology Delivers Reliability and Affordability**

New nuclear technologies, such as small modular reactors (SMR), have reached a point where they are able to help utilities address growing concerns about fulfilling their core mission: delivering safe, affordable, and reliable electric power.

Several industry trends are challenging utility executives' abilities to balance those three key objectives.

A July report from the North American Electric Reliability Corp. (NERC) highlighted the growing threats to reliability, including extreme weather events, the growing proliferation of "inverter based resources" such as photovoltaic solar power and energy storage, and increasing reliance on natural gas-fired generation.

The growth of renewable resources aimed at meeting state and federal goals aimed at addressing greenhouse gas emissions has been impressive. In the first half of the year, 24 percent of utility-scale generation in the United States came from renewable sources, according to the Energy Information Administration. However, as NERC pointed out this summer, as renewable resources have proliferated; gas-fired generators are becoming "necessary balancing resources" for reliability, leading to an interdependence that poses "a major new reliability risk."

In this environment, if utilities are going to stay on track to meet their clean energy targets while providing secure, safe and reliable electric power to meet growing demand, they are going to need a new solution.

"NuScale Power's SMR technology offers a carbon-free energy solution with features, capability, and performance not found in current nuclear power facilities," Karin Feldman, Vice President of NuScale's Program Management Office, said in an interview.

Several utilities have already begun exploring the potential of a new generation of nuclear technology to help them meet both their clean energy and reliability needs as they work toward meeting growing demand.

NuScale's project portfolio includes a six module, 462-MW VOYGR™ SMR power plant. Utah Associated Municipal Power Systems (UAMPS) plans to develop at the Department of Energy's (DOE) Idaho National Laboratory in Idaho Falls for their **Carbon Free Power Project (CFPP)**.

NuScale also has memorandums of understanding to evaluate the deployment of its SMR technology with Associated Electric Cooperative in Missouri and Dairyland Power Cooperative in Wisconsin.

"What we bring to the table is a technology that is smaller and simpler; that lowers total costs while providing high reliability and resilience, and greater safety," said Feldman, who develops and manages NuScale's portfolio of projects and establishes and maintains project controls, cost estimating, and risk management standards. She is also NuScale's primary interface with the DOE.

*Merry Christmas  
And  
Happy New Year  
From your friends at ATVG*

**ATVG REPORT:**

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Tennessee Valley Governments:

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ATVG is a 501(c) (4), not-for-profit, public interest  
organization.

ATVG advocates for the interests of county and  
city/town governments residing within the seven  
state TVA region and their partners in the public  
and private sectors.



**ATVG Winter Meeting**

**January 18, 2023**

**Chattanooga Marriott Downtown (Eastern Time Zone)**

**Phone: 423-756-0002**

**January 18<sup>th</sup>**

- **11:00 a.m. ATVG Board Meeting** (*Separate agenda will be provided*)
- **Noon: Lunch**
- **1:00 p.m. ATVG Membership Program**
- **Welcome & Greetings** – *Lamar Paris, ATVG Board President*
- **TVA Update**
- **TVA Hydro/ Fossil Operations**
- **Renewable Energy: Deploying Innovative Technologies** –*Seven States Power Corporation*
- **TVA Electric Vehicle Program**
- **Tour of TVA Power Operations Center**
- **5:00 p.m. Adjourn**
- **5:30 p.m. Offsite Hospitality Hour and Dinner**

\* Please note Hotel Registration link can be found on [www.ATVG.org](http://www.ATVG.org)

Please help us make necessary arrangements by letting us know if you will be attending. Send the enclosed registration form by email to: [registration@atvg.org](mailto:registration@atvg.org) or by U.S. mail to: ATVG, P.O. Box 3578, Clarksville, TN 37043



**Association of Tennessee Valley Governments Meeting Registration Form**

*Registration Fee: \$175.00 for members and affiliates; \$300.00 for non-members*

Name:

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E-Mail:

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Spouse's Name:

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*Registration Fee for spouse is included/No additional charge*

Company/Organization:

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Full Address:

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*Make checks payable to: Association of Tennessee Valley Governments- P.O. Box 3578 – Clarksville, TN 37043*