



Decarbonization Journey

We've already achieved a 63% reduction in carbon emissions since 2005, including TVA-owned and operated generation and purchased power. And now we have an opportunity to move further and faster to drive decarbonization and innovation.

TVA has set an aspiration to achieve net-zero carbon emissions by 2050. We have a plan to achieve a 70% reduction by 2030 and a path to approximately 80% by 2035.

TVA is making the investments to expand solar power twelve-fold by 2030, create the resilient grid of tomorrow, achieve top-ranked nuclear fleet performance and develop advanced nuclear technologies and utility-scale battery storage to enable increased use of renewables.

Sustainability Rooted in Our Mission

Sustainability has been a driving force at TVA since its creation in 1933 and it is a critical part of TVA's mission to make life better for the Tennessee Valley's 10 million people and businesses by delivering low-cost, reliable and increasingly clean energy, a healthy environment and a prosperous economy today, and for future generations.

TVA's unique public power model drives and inspires us daily to pursue new ideas and innovative solutions. Our mission has remained constant and focuses on three key areas:

- **Energy:** delivering safe, low-cost, reliable power;
- **Environment:** providing responsible stewardship by caring for the region's natural resources; and
- **Economic Development:** creating sustainable economic growth.

We build sustainability into everything we do. TVA's Sustainability Report provides a comprehensive view of our performance and aspirations.

- **Powering the Valley's Economy of the Future:** TVA delivers low-carbon, low-cost, reliable energy that powers the strategies and climate goals of large and small businesses, local power companies and Valley communities, and attracts industries and jobs to support the Valley's economic growth and future prosperity.
- **Stewards of our Environment:** We have long-term success of reducing key emissions and taking care of cultural and natural resources, wildlife and habitats, and recreational areas across the Valley.
- **Serving People and Communities:** TVA improves quality of life in the Tennessee Valley through strong partnerships, community engagement and dedicated employees.

Economic Impact

TVA's system is one of the nation's cleanest, and we firmly believe that low-carbon, low-cost energy combined with high reliability creates an incredible competitive advantage for the Valley.

We are committed to achieving our carbon reduction goals while delivering low-cost energy and maintaining our track record of 99.999% reliability since 2000.

We are helping our customers and end-use consumers compete in the marketplace – while attracting and retaining businesses, jobs and investment.

During the past five years, TVA has attracted and retained approximately 341,000 jobs and more than \$45.4 billion in direct investment. Even in 2020 during COVID-19, TVA helped to attract and retain approximately 67,000 jobs and invested \$8.6 billion in capital.

TVA's planned investments in its generating portfolio allow us to maintain competitive Valley electric rates, high reliability and continued leadership in carbon emissions. As a public power company focused on sustainability, TVA is investing in science and technologies to further reduce carbon emissions, embrace energy efficiency and pursue development of advanced nuclear technologies.

Sustainability



Environmental Stewardship

TVA is a steward of the region's waterways and surrounding public lands, and we are dedicated to preserving the Valley's cultural and natural resources and maintaining a healthy climate for future generations.

TVA improves regional air quality through emission controls on existing generation and by adopting cleaner energy options.

- Reduction in nitrogen oxide (NOx) below CY 1995 levels through CY 2020 from TVA owned and operated generation.
- Reduction in sulfur dioxide (SOx) below CY 1995 levels through CY 2020 from TVA owned and operated generation.
- Reduction in total carbon dioxide (CO2) below CY 2005 levels through CY 2020 from TVA owned and operated generation, and purchased power

The Tennessee River system and adjacent public lands generate about \$12 billion a year in economic activity to the region and create or retain about 130,000 jobs each year.

TVA sustainably manages the Tennessee River system to provide multiple benefits to the people, including flood reduction, recreation, resource protection and economic development.

We care for the cultural and natural resources on our public lands, manage our waste sustainably, and take actions to improve the air and water quality of the region.

People and Communities

TVA delivers vital services across the region to assist families, communities, businesses and industries – and help the Tennessee Valley recover and grow.

We make life better for people in the Valley by attracting and retaining exceptional, diverse employees, collaborating with our customers, and by enhancing environmental and social justice.

We carry out our mission of service through community partnerships – serving communities with work in land and river management, charitable giving and volunteerism.

In early 2020, TVA and its LPC partners helped communities in Middle Tennessee, Chattanooga and Mississippi face the unexpected challenge of devastating tornadoes, and in addition, TVA helped prevent \$1 billion in potential flood damage during the wettest year on record.

Our values are always at the forefront, and we keep the power of our public service mission at the center of everything we do.