



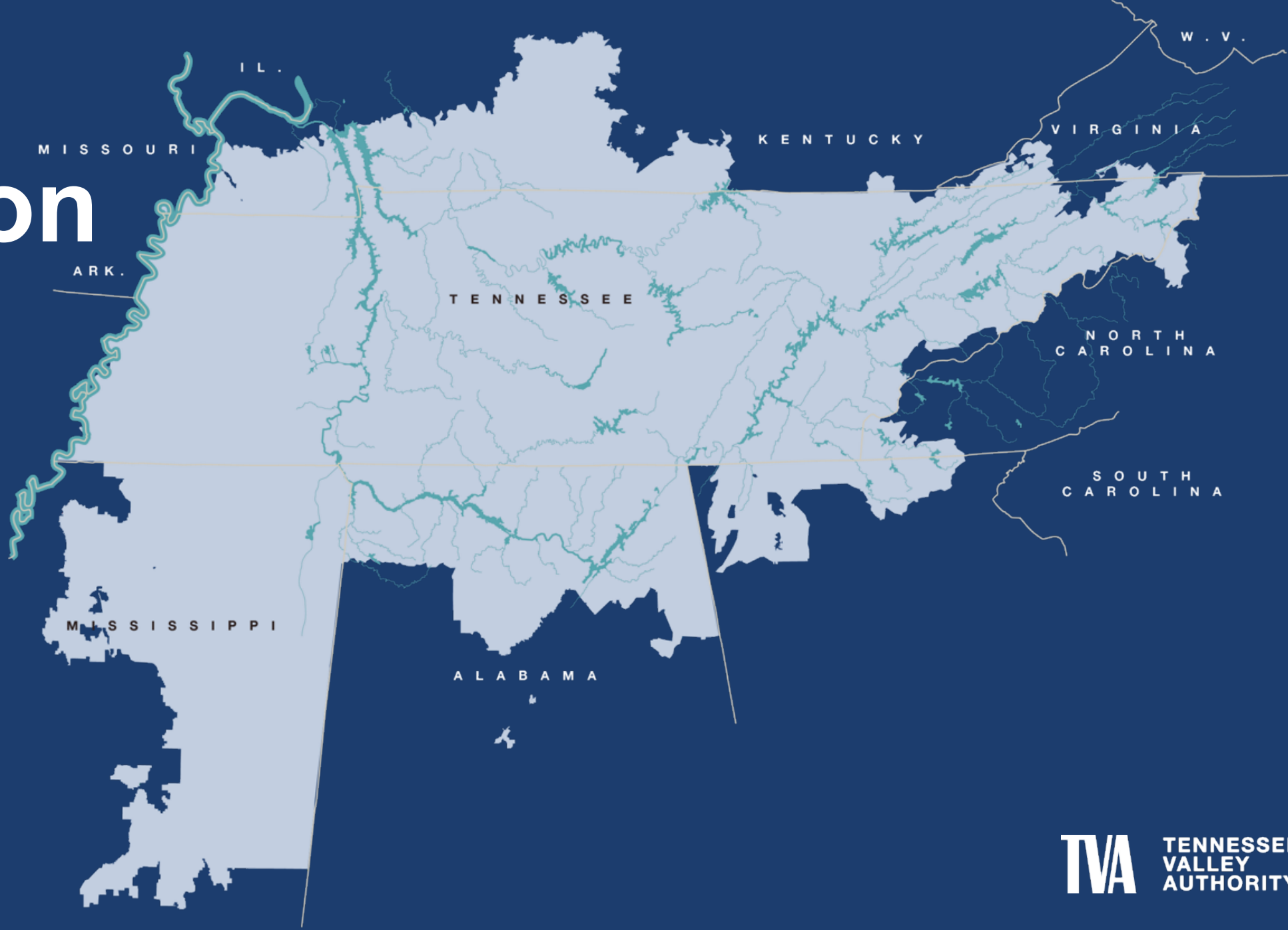
Energy Efficiency and Demand Response

April 4, 2024

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Vice President, Energy Services & Programs



TVA Region





Our Mission

To serve the people of
the Tennessee Valley
to make life better.

Delivering on Our Mission to You

Energy | Environment | Economic Development



Provide affordable, reliable power.



Steward the Valley's natural resources.



Partner for economic growth.

Partnering to Serve You & Your Community

Partnering with

153 Local Power Companies

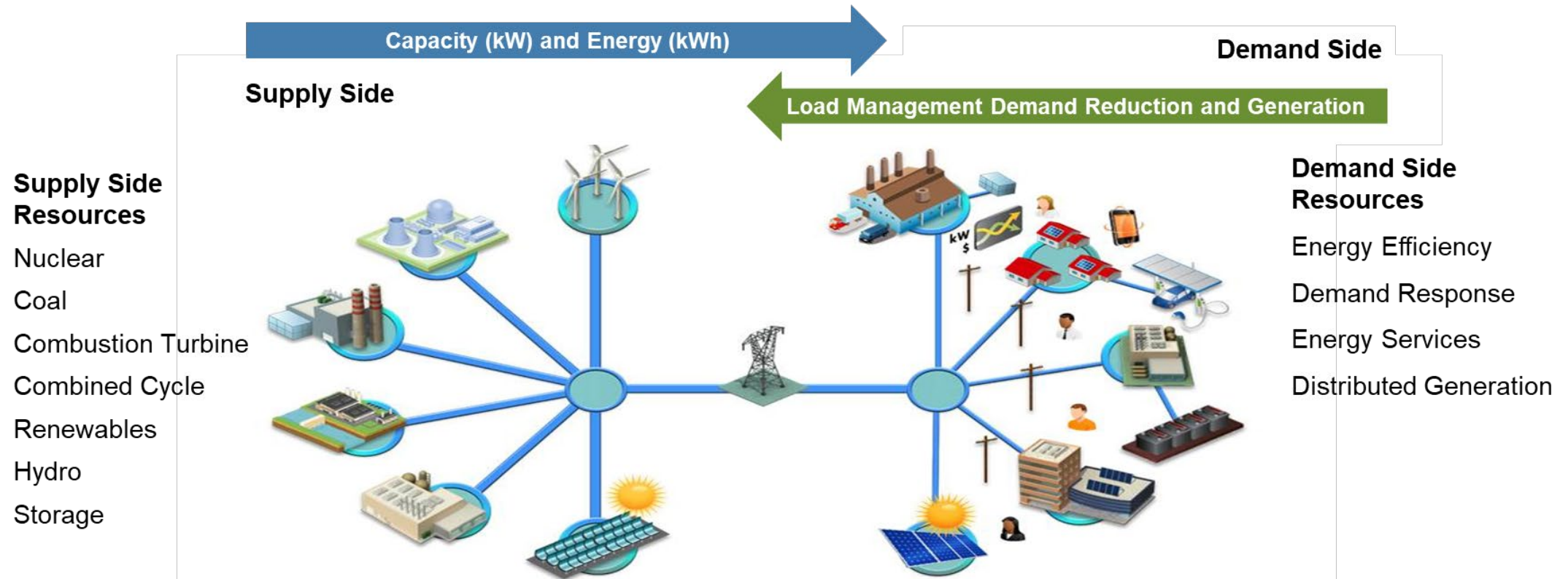
To serve

10 Million People

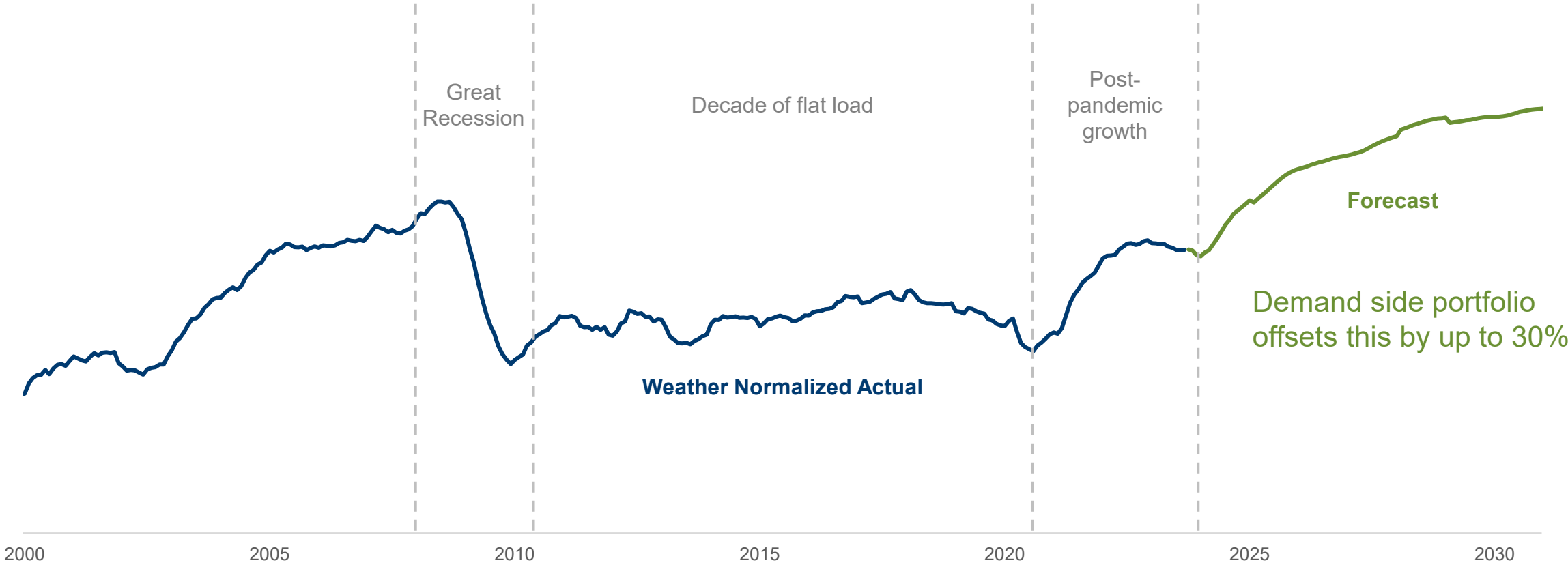
700,000 Businesses in Parts of 7 States

57 Large Industries & Federal Installations

TVA Operates in a Multidirectional Environment



TVA's Load Growth Forecast



Demand-Side Management Objectives



Develop and Maintain the Virtual Power Plant (VPP)

Balance system needs by lowering costs, shaping energy usage and improving TVA's capacity position

2,000 GWh of energy savings and 2,400 MW of demand reduction by 2028



Optimize Community Energy Efficiency

Maintain impactful energy equity programs in the Valley

\$200 million in energy expense savings for low-income communities by 2027



Promote Clean Energy Services

Provide programs and services to meet consumer demand for clean energy, EVs, and resiliency offerings

More than 10 million tons of CO2 reduced and 200,000 EVs on Valley roadways by 2028

Impacts



Virtual Power Plant Benefits

Demand Response

- Zero emissions
- Shapes load, lowers system costs
- Increases reliability
- Improves power quality
- Facilitates low rates for consumers

Energy Efficiency

- Positions LPCs and TVA as trusted energy advisors
- Helps consumers manage energy costs
- Improves quality of life
- Helps Valley businesses remain competitive

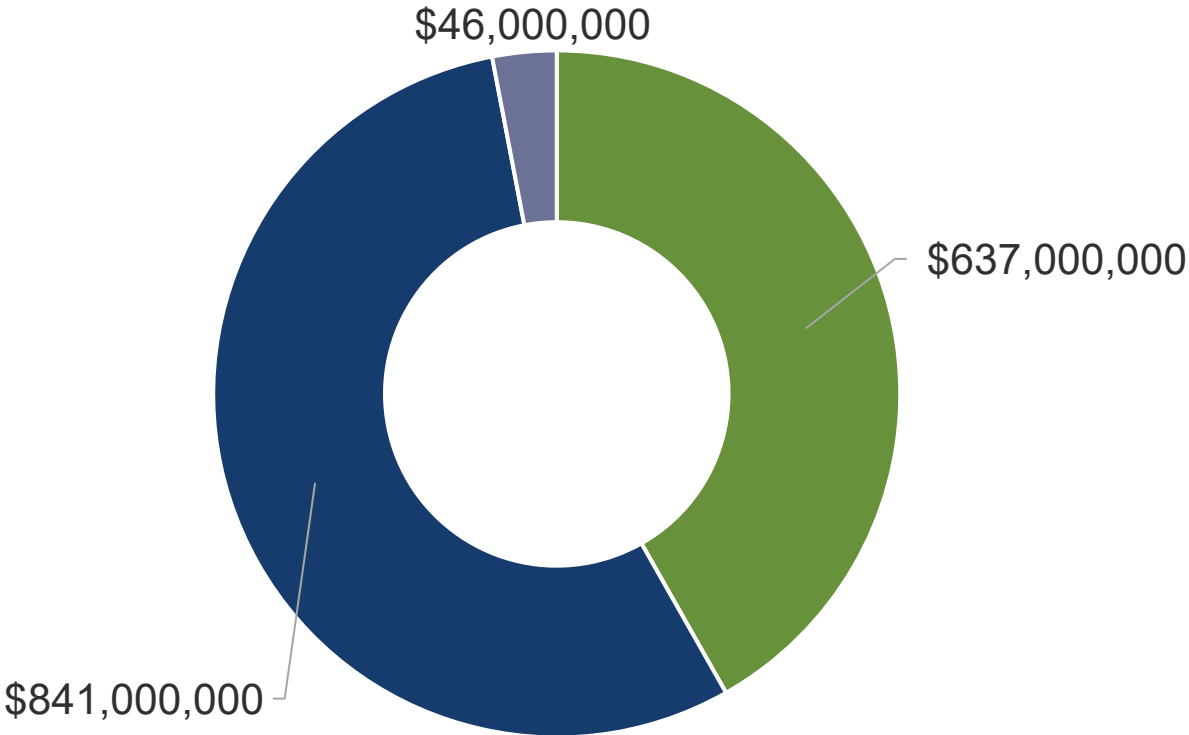
FY24-28 Portfolio Investment & Impact

Over five years (FY24-28)

\$1.5 Billion invested in demand management

2,200 MW of carbon-free peak reduction capacity

2,200 GWh of annual energy savings



- Demand Response
- Energy Efficiency
- Clean Energy Services & EVs

Portfolio At-a-Glance

Energy Efficiency

Residential

- Home Energy Rebates & Financing
- New Homes Incentives for builders
- Home Energy Assessments & Evaluations
- Home Uplift
- Home Energy Workshops

Business & Industry

- Energy Efficiency Incentives
- Strategic Energy Management
- Federal Energy Services Program
- Industrial Energy Assessments
- School Uplift
- Small Business Uplift

Demand Response

- Interruptible Power
- Peak Power Partners
- Voltage Optimization
- Piloting Bring Your Own Thermostat in FY24

Clean Energy Services and Electric Vehicles

- Fast Charge Network
- EV consumer awareness
- Efficient Electrification Incentives

If you've participated, what is your experience with TVA EnergyRight programs?

- Residential
- Business/Commercial
- Industrial

For those who haven't participated, what barriers have you experienced?

Are there partnerships or information that would make these programs more accessible to you and your communities?

- Residential
- Business/Commercial
- Industrial

Appendix

Program Descriptions

Home Uplift

Provides an average of \$12,000 in free home energy upgrades to income-eligible customers (e.g., new HVAC units, attic and wall insulation, appliances). Matched funding by LPC and other external partners.

Interruptible Power

Accounts for over 90% of TVA's Demand Response portfolio

Interruptible Power 5 (IP5) and Interruptible Power 30 (IP30) help improve system reliability by providing a credit to participants to temporarily lower electricity use

TVA is currently re-designing IP (IP 2.0) for facilities already in the region, with a contracted load greater than 1 MW and a 500 kW annual average on-peak interruptible demand. Existing IP5 and IP30 participants are encouraged to transition to this program. Participants will earn monthly demand credits up to \$9.47/ kW-month plus incentives and event-specific energy credits of \$100/MWh.

Small Business Uplift

Partnership between TVA EnergyRight and LPCs to provide LED lighting, HVAC replacement, and efficient refrigeration upgrades at no cost to businesses in underserved communities.

Engagement Opportunities

Demand Response Webinar

April 10, 2024 | 1:00 CT

Businesses and industries in the Valley are invited to join TVA EnergyRight's Demand Response team for a webinar for a new program unveiling! This webinar is open to current demand response participants and those interested in learning more.

To register, please [click here](#).

Industrial Summit

April 16, 2024 | 9:00 – 2:30 CT

Powering Progress Together: Solutions for a Sustainable Tomorrow, a 2024 TVA Industrial Summit.

This one-day event is taking place April 16, 9:00 – 2:30 CT at the Embassy Suites Nashville Cool Springs in Franklin, TN



Scan the QR code or visit EnergyRight.com/TVAIndustrialSummit to register today!

TVA

**TENNESSEE
VALLEY
AUTHORITY**