



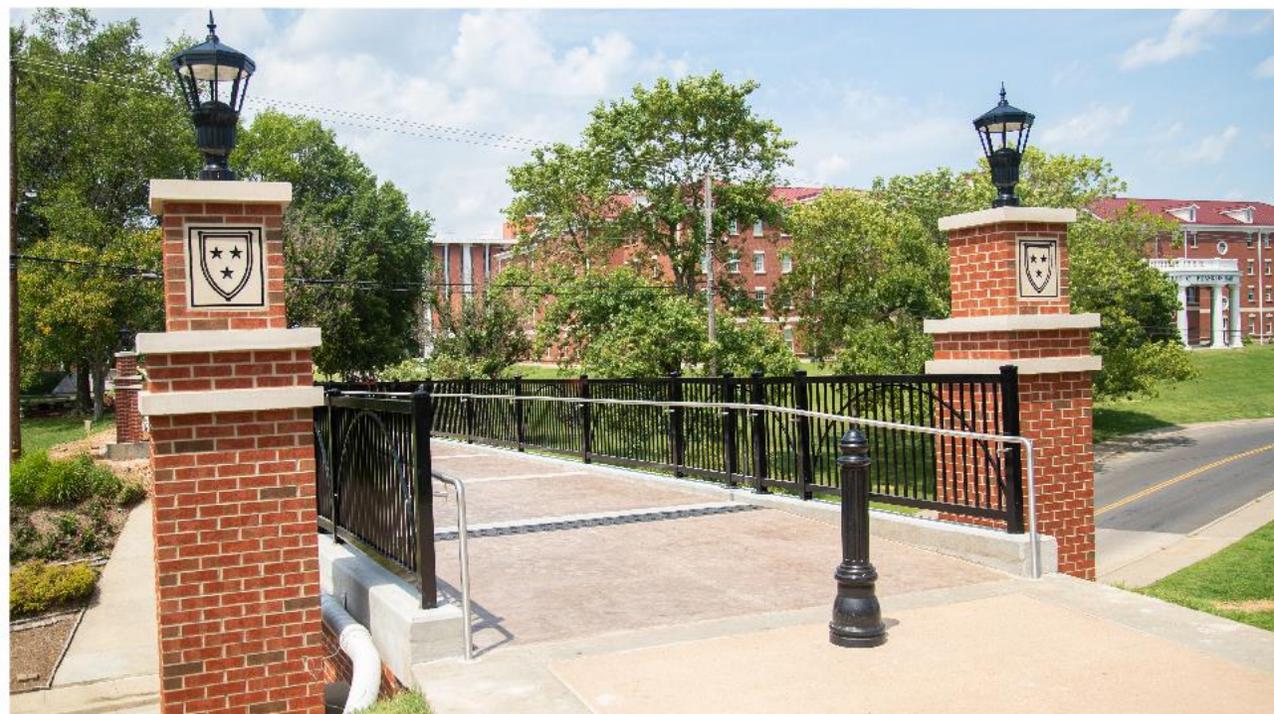
# Board Meeting

November 7, 2024  
Murray, Kentucky





MURRAY STATE UNIVERSITY





# Board Meeting

November 7, 2024  
Murray, Kentucky







# Board Meeting

November 7, 2024  
Murray, Kentucky



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# In Memoriam

**A.D. Frazier**

June 23, 1944 - September 23, 2024





# Board Meeting

November 7, 2024  
Murray, Kentucky



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# Helene Overview, Response, and Recovery

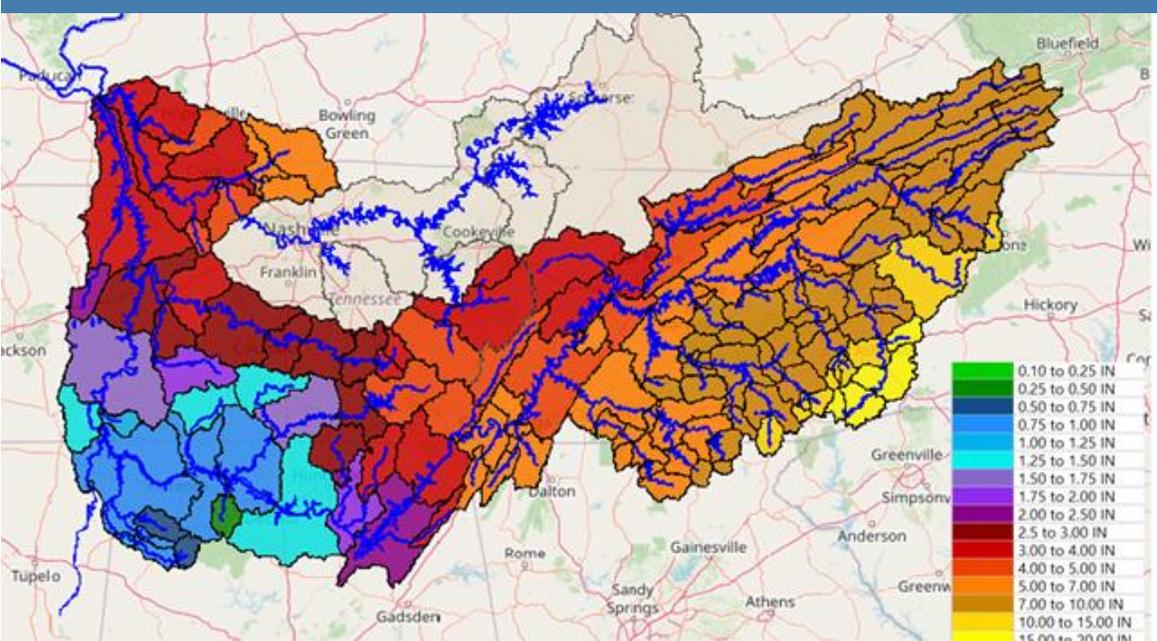
Don Moul  
Executive Vice President & Chief Operating Officer

November 7, 2024

# Helene Overview

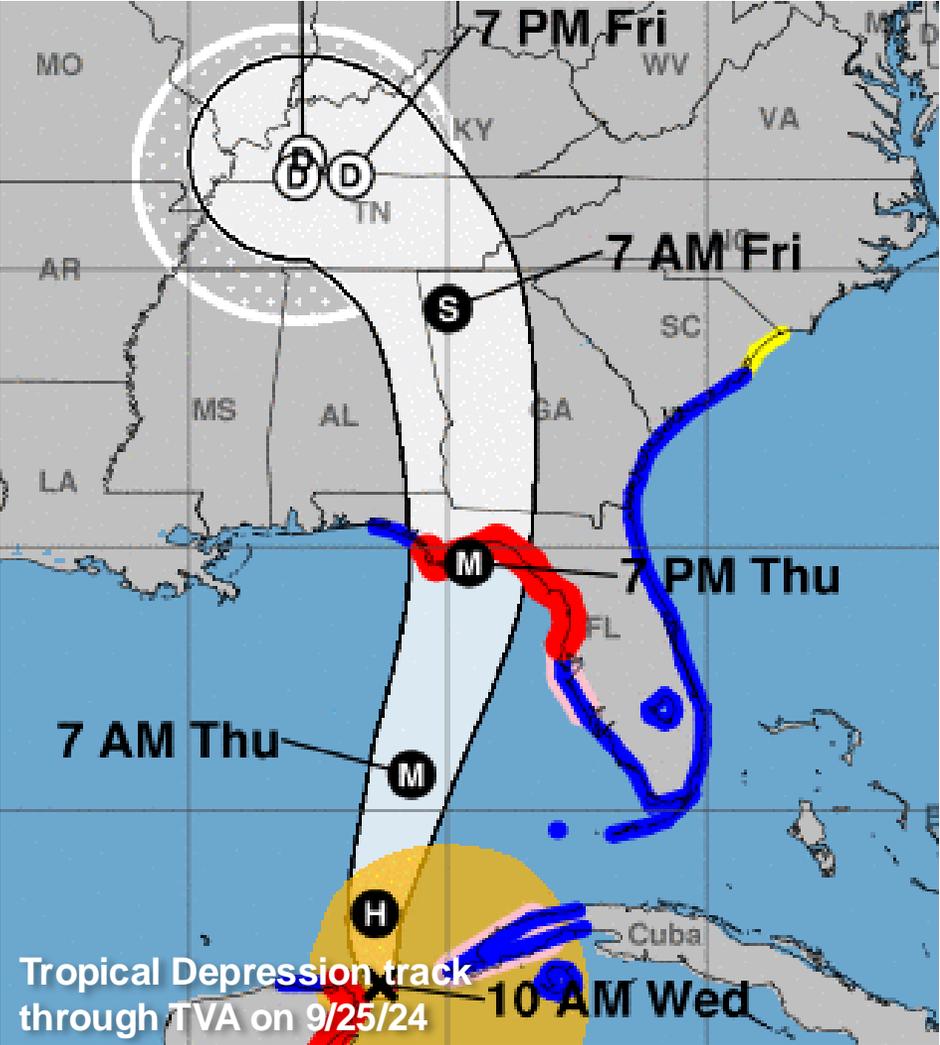


Record Rainfall



Observed Storm Total Rainfall through 0400 on 9/28

# Helene Response



*Dam Safety is a 24/7/365 priority. Our team and our dams were ready to respond.*

# Helene Recovery

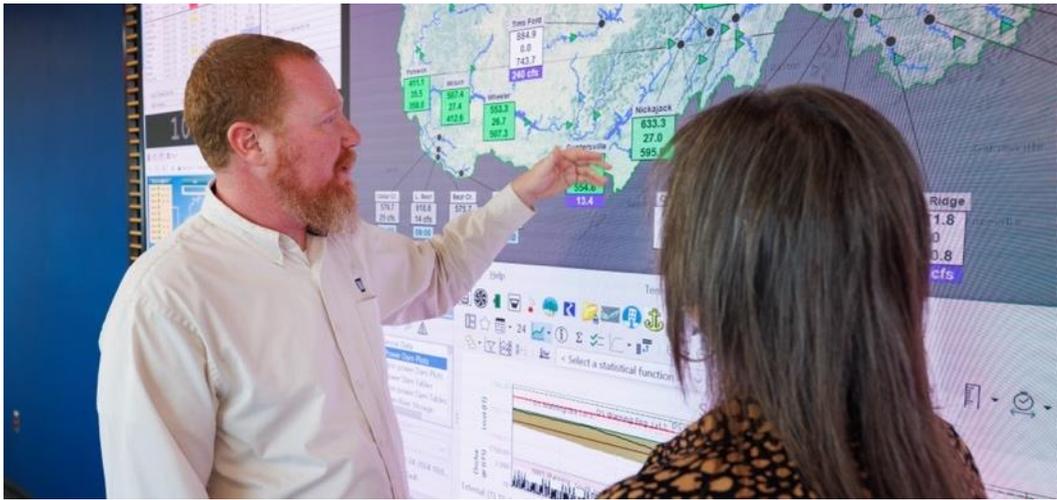
Nolichucky Dam



Douglas



# River Forecast Center – then and now



*Continuing our commitment to managing the river and flood control*



# Board Meeting

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Murray, Kentucky



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# Opening Remarks

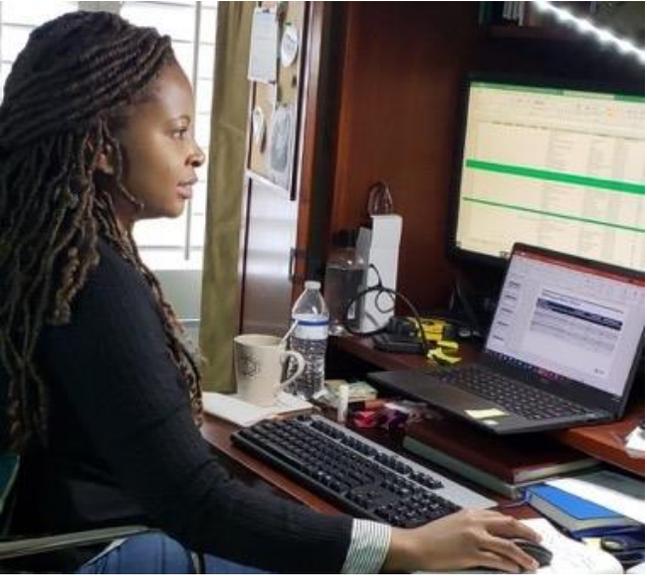
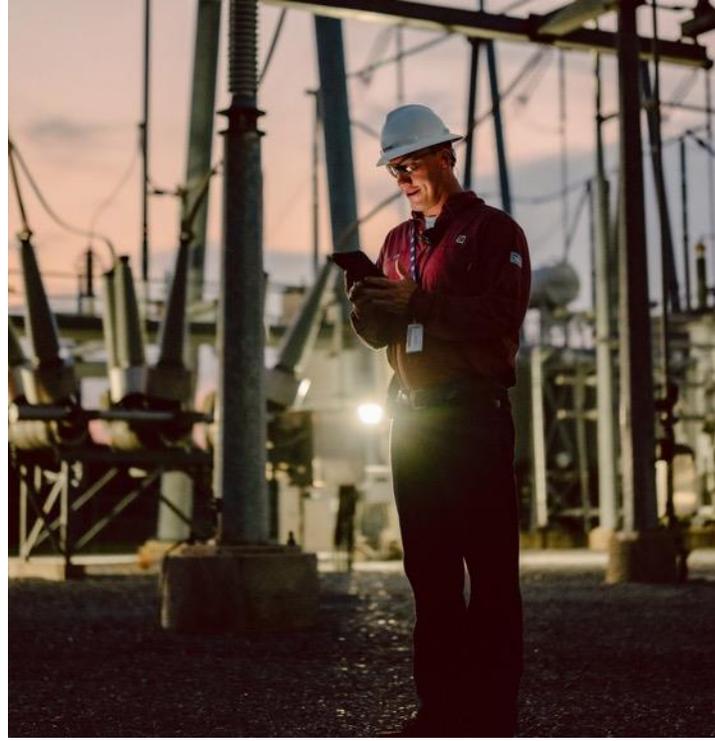
Jeff Lyash  
President and CEO

November 7, 2024

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Zero serious  
injuries this  
past fiscal  
year





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# Managing our river system





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**13,000+  
hours of  
volunteer  
service**



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# Driving regional growth





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**Making our  
energy  
cleaner**

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# Opening Remarks

Jeff Lyash  
President and CEO

November 7, 2024



# Board Meeting

November 7, 2024  
Murray, Kentucky



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# People and Governance Committee

Brian Noland, Chair

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# Audit, Risk, and Cybersecurity Committee

Michelle Moore, Chair

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# Operations and Nuclear Oversight Committee

Bobby Klein, Chair

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# Operations Quarterly Update

Don Moul  
Executive Vice President & Chief Operating Officer

November 7, 2024

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# Operations and Nuclear Oversight Committee

Bobby Klein, Chair

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# Nuclear Quarterly Update

Tim Rausch  
Executive Vice President and Chief Nuclear Officer

November 7, 2024

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# External Stakeholders and Regulation Committee

Beth Harwell, Chair

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# Greater than 100 MW firm power arrangement with CTC Property LLC (xAI)

TVA Board Meeting

November 7, 2024

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# Purpose and Background

## Purpose

Action Item. Seek TVA Board approval to make available firm power exceeding 100 MW to CTC Property LLC (xAI), which is a customer of Memphis Light, Gas & Water (MLGW).

## Background

TVA Board approval is required to authorize TVA to make available new amounts of firm power exceeding 100 MW. CTC Property LLC (xAI) requests approximately 150 MW to support a supercomputer (Colossus) in Memphis, Tennessee that would be served by MLGW. TVA and MLGW have worked with xAI to determine the conditions under which power could be made available on the timeline requested by the company.

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# Project Considerations

- Load requested by Memphis Light, Gas & Water (MLGW), consistent with the wholesale power contract
- xAI has agreed to certain demand response terms in order for TVA and MLGW to make power available on the requested timeline
- xAI has met or exceeded other conditions established by MLGW
  - Energy storage solution
  - Recycled water solution
  - Positive community impact

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# Board Action Recommendation

Recommend Board approval of 150 MW of power supply to the new MLGW end-use customer on the requested timeline contingent upon the customer's agreement to certain demand response terms offered for similar loads.

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# External Stakeholders and Regulation Committee

Beth Harwell, Chair

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# Finance, Rates, and Portfolio Committee

Wade White, Chair

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# Financial Update

John Thomas  
Executive Vice President and Chief Financial & Strategy Officer

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# Fiscal Year 2024

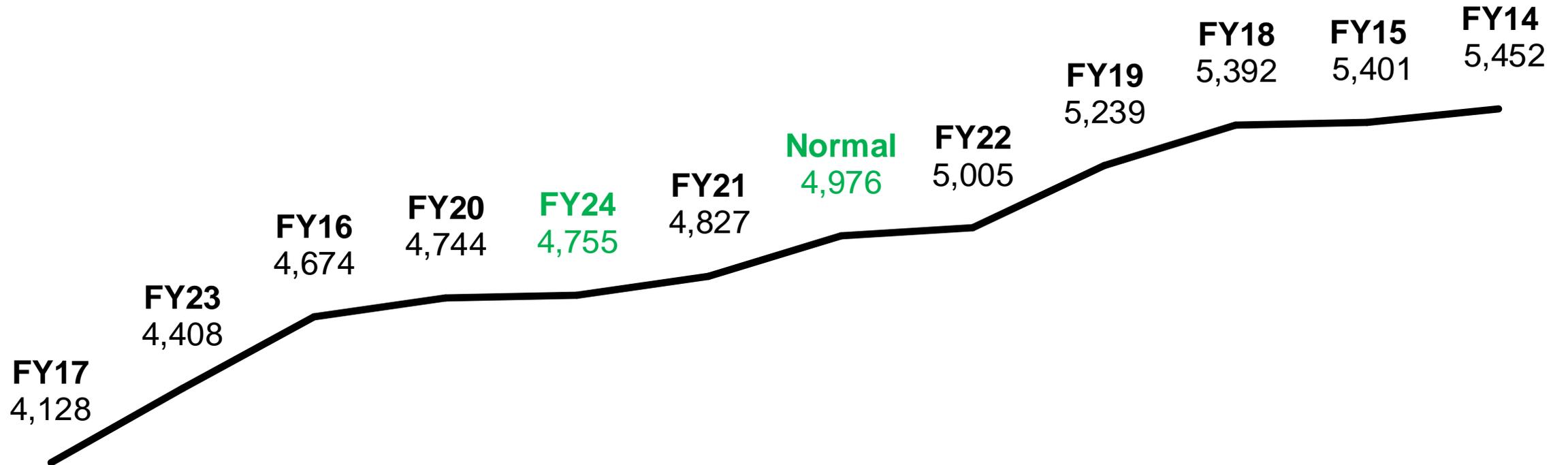
Net Income of \$1,135 million was \$261 million favorable to budget

Cash Flow from Operating Activities was \$384 million favorable to budget

Total Financing Obligations (TFO) were \$1.0 billion favorable to budget

# Total Degree Days below Normal

Weather was 4 percent below normal but 8 percent higher than the prior year



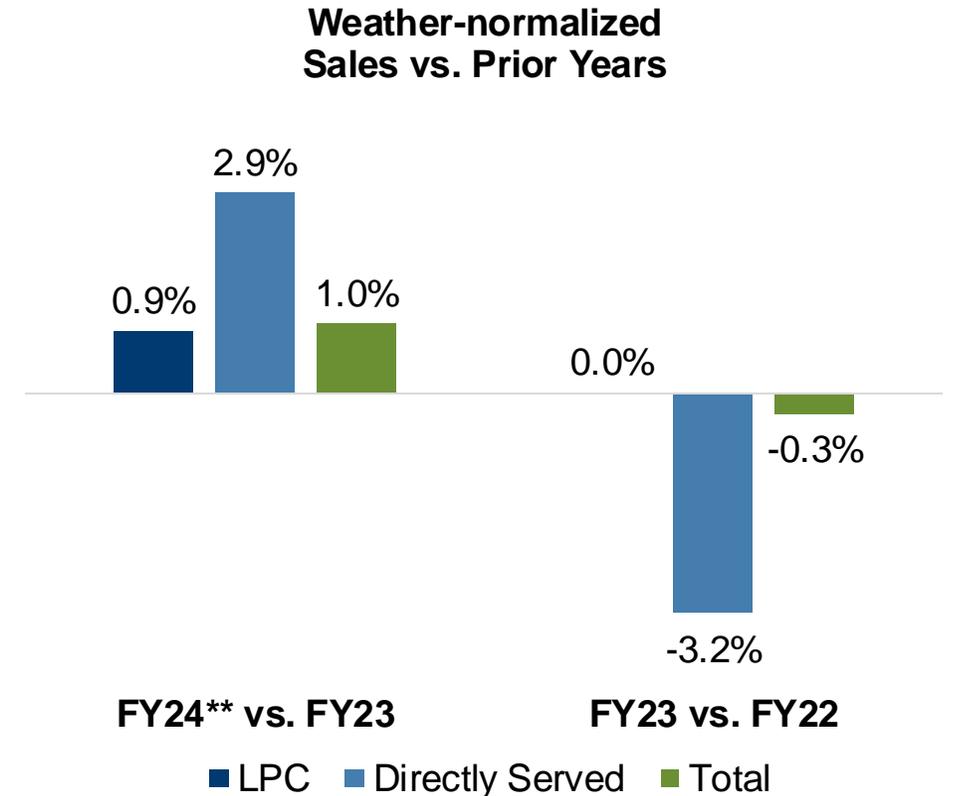
FY15-17 data has been adjusted to incorporate a change in TVA's current calculation of total degree days  
Normal has been adjusted for leap year

# Sales and Revenue

12 Months Ended September 30	FY24	FY23	Change	Percent Change
Power Sales (GWh)	162,933	157,311	5,622	3.6 %
Total Operating Revenues (\$ millions)	\$12,314	\$12,054	\$260	2.2 %
Base Revenue	8,725	7,863	862	11.0 %
Fuel Cost Recovery	3,398	4,025	(627)	(15.6)%
Average Base Rate (¢/kWh)	5.35	5.01	0.34	6.8 %
Average Fuel Rate	2.09	2.57	(0.48)	(18.7)%
Total Effective Rate*	7.44	7.58	(0.14)	(1.8)%

Calculations may be impacted by rounding

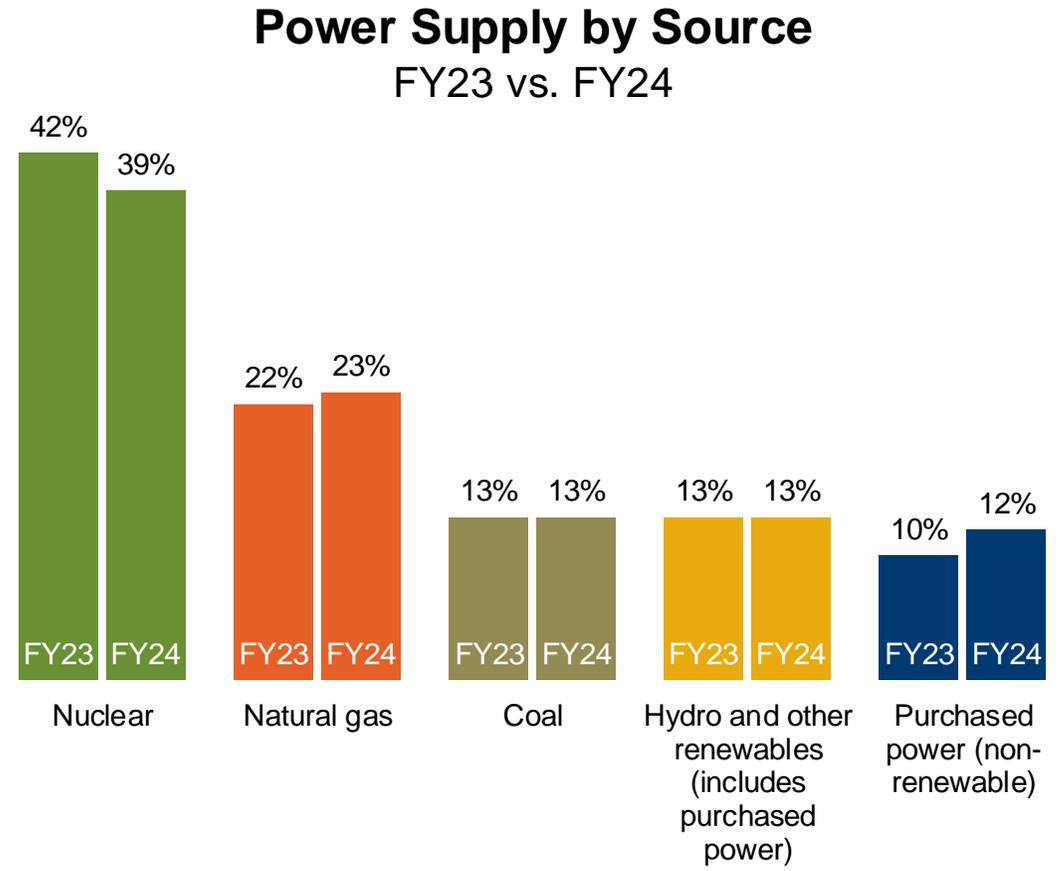
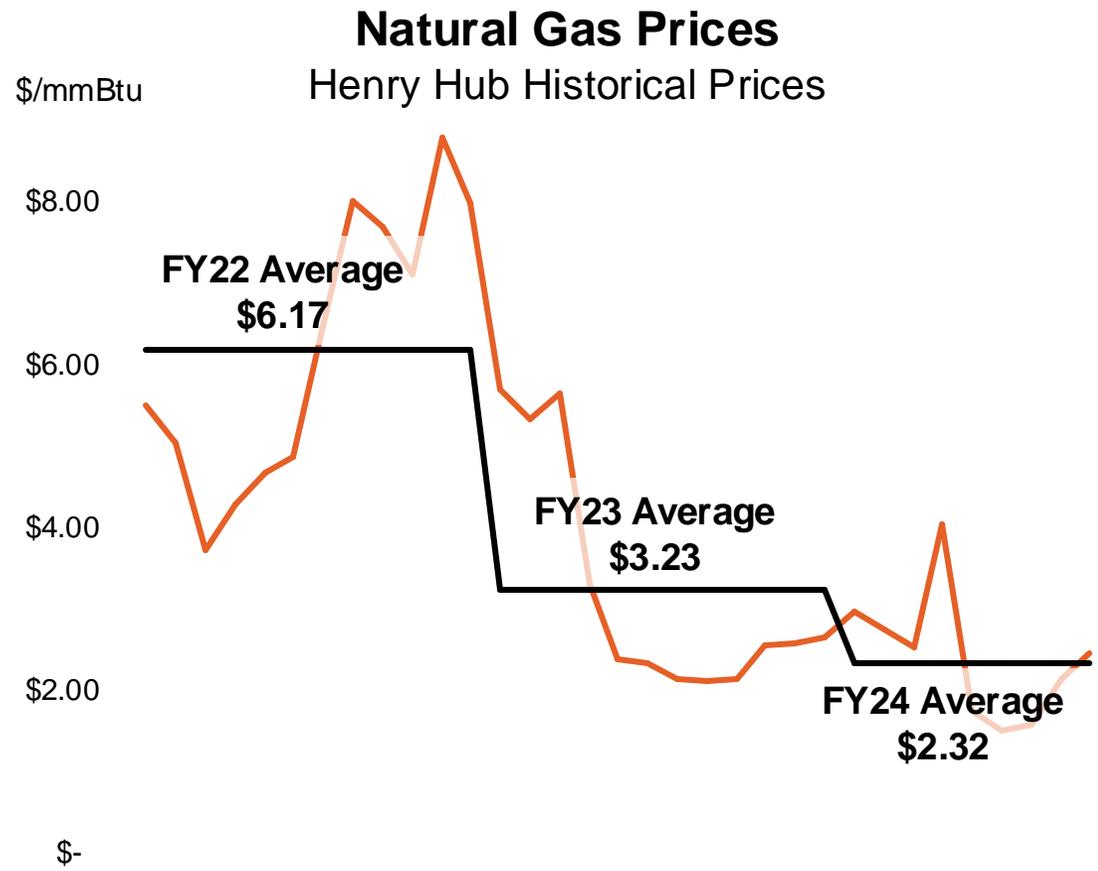
\* Excludes other revenue and off-system sales impact; total effective rate numbers based on unrounded base and fuel rates



\*\* Data adjusted to scale February to 28 days

# Power Supply Summary

Benefiting from a diverse power system: 52% of power from nuclear, hydroelectric, other renewables in 2024



# FY24 Summary Income Statement

\$ million	FY24			FY23	
	Actual	Budget	Variance Fav/(Unfav)	Actual	'24 v '23 Fav/(Unfav)
Base Revenue	\$ 8,725	\$ 8,680	\$ 45	\$ 7,863	\$ 862
Fuel Revenue	3,398	3,682	(284)	4,025	(627)
Other Revenue*	191	171	20	166	25
<b>Total Operating Revenue</b>	<b>\$ 12,314</b>	<b>\$ 12,533</b>	<b>\$ (219)</b>	<b>\$ 12,054</b>	<b>\$ 260</b>
Fuel & Purchased Power	3,750	4,028	278	4,182	432
Total O&M	3,641	3,584	(57)	3,372	(269)
Taxes, Depreciation, Other	2,722	2,930	208	2,944	222
Interest	1,066	1,117	51	1,056	(10)
<b>Net Income (Loss)</b>	<b>\$ 1,135</b>	<b>\$ 874</b>	<b>\$ 261</b>	<b>\$ 500</b>	<b>\$ 635</b>

\* Includes off-system sales

# FY24 Summary Cash Flow Statement

\$ million

Net Cash Provided by / (Used in)	FY24			FY23	
	Actual	Budget	Variance	Actual	'24 v '23
Operating Activities	\$ 3,003	\$ 2,619	\$ 384	\$ 2,872	\$ 131
Investing Activities	(3,591)	(4,168)	577	(2,994)	(597)
Financing Activities	590	1,549	(959)	123	467
<b>Net Change in Cash</b>	<b>\$ 2</b>	<b>\$ -</b>	<b>\$ 2</b>	<b>\$ 1</b>	<b>\$ 1</b>
<b>Beginning Total Financing Obligations</b>	<b>\$ 20,525</b>	<b>\$ 20,599</b>	<b>\$ 74</b>	<b>\$ 20,336</b>	<b>\$ (189)</b>
Change in Debt and Financing Obligations	678	1,633	955	189	(489)
<b>Ending Total Financing Obligations*</b>	<b>\$ 21,203</b>	<b>\$ 22,232</b>	<b>\$ 1,029</b>	<b>\$ 20,525</b>	<b>\$ (678)</b>

\*See Regulation G Reconciliation

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# Recap of Financial Results

For 12 months ended September 30, 2024 (comparison to prior year)

Lower effective power rate for customers

Lower fuel and energy costs offsetting base rate increase

Higher sales due to weather and industrial growth

Capital plan on track with lower debt than plan due to timing

Continued strong financial health

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# Finance, Rates, and Portfolio Committee

Wade White, Chair

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# President's Report

Jeff Lyash  
President and CEO

November 7, 2024



# Safety Performance

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Zero serious injuries  
this past fiscal year.

# Clean Energy

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TVA has

**4,200 MWs**

of solar either in operation or  
contracted for development



# Energy Efficiency Programs

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We are investing

**\$1.5 Billion**

to help our region use  
energy wisely





# Grid Resiliency

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Met the Valley's all-time peak power demand record of

**34,577 MWs**

during Winter Storm Heather



# Energy Reliability

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To meet rising demand, TVA invested over

**\$3.9 Billion**

in FY 2024 to build new generation and infrastructure and enhance the performance and reliability of existing assets

# Economic Development

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TVA helped attract  
**\$8.9 Billion**  
in projected capital investment  
to the region that is expected to  
create more than  
**10,350 jobs**





# Innovation

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Increased investment  
in SMR development to  
**\$350 Million**

for potential Clinch  
River deployment



# Long-Term Future

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TVA supported  
completion of the

# Valley Pathways Study

# Connected Communities

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Currently supporting  
**23 pilot  
programs**



# Connected Communities

---

Currently supporting  
**23 pilot programs**





# Environmental Stewardship

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**We finished more than 175 stewardship projects, leveraging over 45 local, state, federal and non-governmental organization partnerships**

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# President's Report

Jeff Lyash  
President and CEO

November 7, 2024



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## Statement of Support For the Guard and Reserve



We recognize the Guard and Reserve are essential to the strength of our Nation and the well-being of our communities. In the highest American tradition, the patriotic men and women of the Guard and Reserve serve voluntarily in an honorable and vital profession. They train to respond to their community and their country in time of need. They deserve the support of every segment of our society. If these volunteer forces are to continue to serve our Nation, increased public understanding is required of the essential role of the Guard and Reserve in preserving our national security. Therefore, we join other employers in pledging that:

- We fully recognize, honor and comply with the Uniformed Services Employment and Reemployment Rights Act (USERRA).
- We will provide our managers and supervisors with the tools they need to effectively manage those employees who serve in the Guard and Reserve.
- We appreciate the values, leadership and unique skills Service members bring to the workforce and will encourage opportunities to employ Guardsmen, Reservists, transitioning Service members and Veterans.
- We will continually recognize and support our country's Service members and their families in peace, in crisis, and in war.

*Joe Ritch*      *Bobby Klein*      *Beth Geer*

Joe Ritch      Bobby Klein      Beth Geer  
TVA Board Chair      TVA Board Member      TVA Board Member

*Beth Hatwell*      *Wade White*      *Michelle Moore*

Beth Hatwell      Wade White      Michelle Moore  
TVA Board Member      TVA Board Member      TVA Board Member

*Brian Noland*      *Bill Renick*      *Jeff Lyash*

Brian Noland      Bill Renick      Jeff Lyash  
TVA Board Member      TVA Board Member      Chief Executive Officer, TVA

*John Sampa*      *Lloyd J. Austin III*

John Sampa      Lloyd J. Austin III  
National Chair, ESGR      Secretary of Defense





# Board Meeting

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**TVA**

**TENNESSEE  
VALLEY  
AUTHORITY**

# Regulation G Reconciliation

	September 30, 2024	September 30, 2023
<b>Total Outstanding Debt</b>	<b>\$20,990</b>	<b>\$20,266</b>
Exchange Gain - LT	62	109
Unamortized Discounts, Premiums, Issue Costs and Other	134	132
Debt of Variable Interest Entities	(939)	(974)
<b>Bonds and Notes, Gross</b>	<b>\$20,247</b>	<b>\$19,533</b>
Membership Interests of Variable Interest Entity Subject to Mandatory Redemption	17	18
Debt of Variable Interest Entities	939	974
<b>Total Debt and Other Financing Obligations, Gross ("TFO")</b>	<b>\$21,203</b>	<b>\$20,525</b>

Note numbers may be adjusted for rounding