

Opening Remarks

Jeff Lyash
President and CEO

November 10, 2022



Mississippi State University











W.E. CONNECT

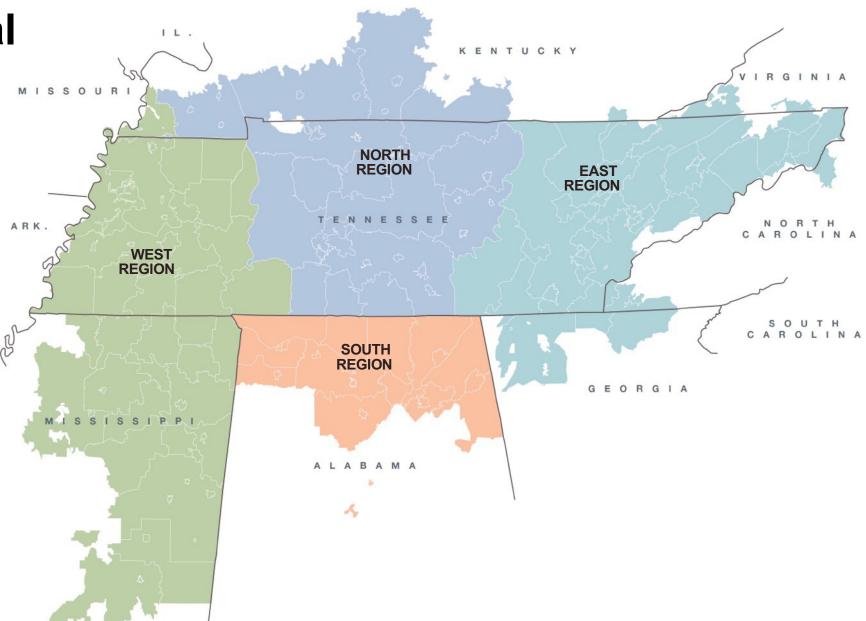
Serving more than

14,000

homes, businesses, and industries



Regional Model





Columbus Air Force Base





Steel Dynamics

Expanding its Lowndes County operations

\$2.5 billion projected capital investment

1,000 new jobs

Expected to be created/retained

The largest economic development project in Mississippi history.



The best and biggest economic development deal in state history is done!

Thanks to the Legislature for quickly finalizing this project that will improve the lives of 1,000+ Mississippians.

\$2.5 billion investment. \$93,000 average salary.

Historic day for Mississippi!





Economic Development

Fiscal Year 2022

Expected to attract or retain

66,500 Jobs and more than

\$10.2 Billion

in capital investment





Public Power Model



Public power exists to serve and benefit the public good at the local levels – families, communities, businesses and industries.



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Operations and Nuclear Oversight Committee

Jeff Smith, Chair



Pilot Solar Project at Shawnee Fossil Plant

Request for Budget Approval and CEO Delegation

Don Moul

Executive Vice President and Chief Operating Officer

November 10, 2022



For Board Consideration

Approve the budget and delegate authority to the Chief Executive Officer to take specific actions, as appropriate, to support the potential future deployment of a solar cap system on the closed coal combustion residuals management unit at the TVA Shawnee Fossil Plant in Paducah, Kentucky



Background

Provides the capability of a revolutionary new approach to solar on closed landfills and impoundments

Makes available the potential to enable future solar additions on existing TVA property

Aligns to TVA's 2021 Strategic Intent and Guiding Principles and

Affords optionality to achieve 2035 solar generation targets



Additional Project Benefits

Option to alleviate land constraint challenges

Expansion of avenues for beneficial reuse

Transmission interconnection efficiencies





Basis for Request

High levels of competition for new energy resources driven by market conditions Preservation of a solar cap installation option at this site



Project Development Actions

Conduct environmental reviews, project scoping, engineering and long-lead actions

Evaluate the applicability of relevant Inflation Reduction Act provisions related to investment in new solar

Any actions taken prior to the completion of the National Environmental Policy Act process will not irreversibly and irretrievably commit TVA to a particular course of action prior to a final decision.



Recommendation

Approve the budget and delegate to the Chief Executive Officer the authority to approve project actions relative to the pilot solar project at the Shawnee Fossil Plant

The Chief Executive Officer will periodically report to the Board on actions taken in accordance with the delegations granted and will inform the Board prior to making any final decisions.



Operations and Nuclear Oversight Committee

Jeff Smith, Chair



Audit, Finance, Risk, and Cybersecurity Committee

A.D. Frazier, Chair



Financial Update

John Thomas
Executive Vice President
Chief Financial & Strategy Officer

November 10, 2022



Fiscal Year 2022

Base Revenue of \$8.0 billion was \$326 million favorable to budget

Partner and pandemic credits for FY22 totaled \$427 million

Diverse generating fleet helps mitigate extreme natural gas prices

O&M is \$63 million favorable to budget

Net income \$463 million favorable to budget

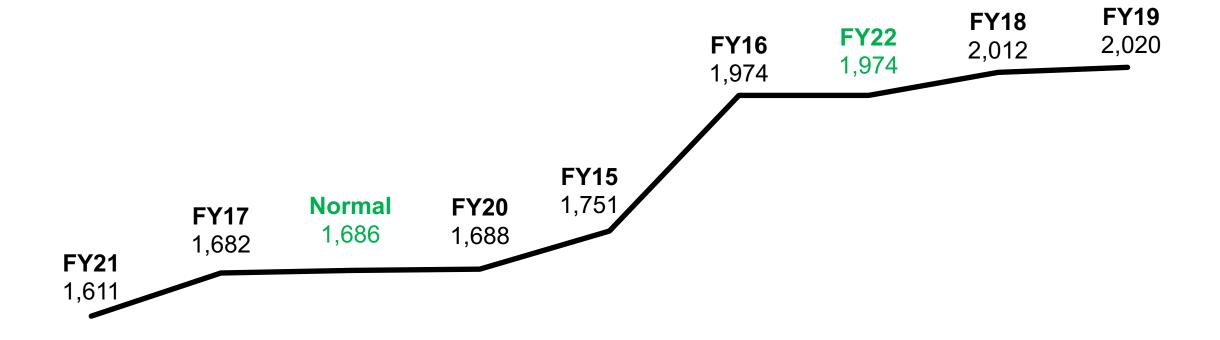
Total Financing Obligations (TFO)

- \$727 million favorable to budget
- \$207 million lower than prior year
- Lowest debt level in 35 years



Cooling Degree Days Above Normal

Overall weather was closer to normal, but higher Cooling Degree Days due to more extreme summer weather



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

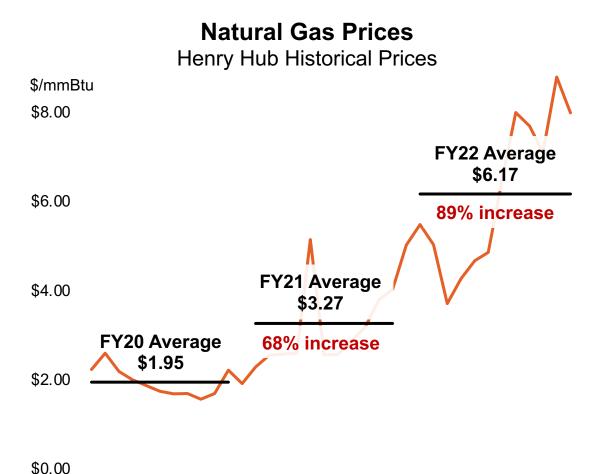


Sales and Revenue

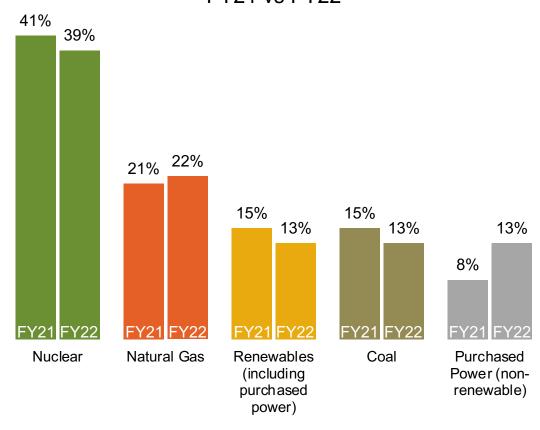
| | | | | Percent | |
|---------------------------------|----------|----------|----------|---------|--------------------------|
| | FY22 | FY21 | Change | Change | Comment |
| Power Sales (GWh) | 162,608 | 157,353 | 5,255 | 3.3% | |
| Total Operating Revenues (\$ M) | \$12,540 | \$10,503 | \$ 2,037 | 19.4% | |
| Base Revenue | 7,985 | 7,752 | 233 | 3.0% | Load growth and weather |
| Fuel Cost Recovery | 4,379 | 2,601 | 1,778 | 68.4% | Mostly natural gas price |



Power Supply Summary



Power Supply by Source FY21 vs FY22





FY22 Summary Income Statement

| | FY22 | | | | | | | FY21 | | | | | |
|--------------------------------|--------|--------|--------|--------|-------------------------|---------|----|--------|---------------------------------|---------|--|--|--|
| \$ million | Actual | | Budget | | Variance Fav/(Unfav) | | A | Actual | '22 v '21 Fav/(Unfav) | | | | |
| Base Revenue | \$ | 7,985 | \$ | 7,659 | \$ | 326 | \$ | 7,752 | \$ | 233 | | | |
| Fuel Revenue | | 4,379 | | 2,629 | | 1,750 | | 2,601 | | 1,778 | | | |
| Other Revenue* | | 176 | | 133 | | 43 | | 150 | | 26 | | | |
| Total Operating Revenue | \$ | 12,540 | \$ | 10,421 | \$ | 2,119 | \$ | 10,503 | \$ | 2,037 | | | |
| Fuel & Purchased Power | | 4,488 | | 2,815 | | (1,673) | | 2,721 | | (1,767) | | | |
| Total O&M | | 2,986 | | 3,049 | | 63 | | 2,890 | | (96) | | | |
| Tax Equivalents | | 601 | | 514 | | (87) | | 514 | | (87) | | | |
| Depreciation and Amortization | | 2,054 | | 2,097 | | 43 | | 1,533 | | (521) | | | |
| Other | | 251 | | 213 | | (38) | | 245 | | (6) | | | |
| Interest | | 1,052 | | 1,088 | | 36 | | 1,088 | | 36 | | | |
| Net Income (Loss) | \$ | 1,108 | \$ | 645 | \$ | 463 | \$ | 1,512 | \$ | (404) | | | |

^{*} Includes off-system sales



FY22 Summary Cash Flow Statement

| \$ million | | | | FY22 | FY21 | | | | | |
|---|--------|---------|--------|---------|----------|-------|--------|---------|-----------|-------|
| Net Cash Provided by / (Used in) | Actual | | Budget | | Variance | | Actual | | '22 v '21 | |
| Operating Activities | \$ | 2,948 | \$ | 2,643 | \$ | 305 | \$ | 3,256 | \$ | (308) |
| Investing Activities | | (2,663) | | (3,165) | | 502 | | (2,338) | | (325) |
| Financing Activities | | (283) | | 322 | | (605) | | (921) | | 638 |
| Net Change in Cash | \$ | 2 | \$ | (200) | \$ | 202 | \$ | (3) | \$ | 5 |
| Beginning Total Financing Obligations | \$ | 20,543 | \$ | 20,660 | \$ | 117 | \$ | 21,421 | \$ | 878 |
| Change in Debt and Financing Obligations | | (207) | | 403 | | 610 | | (878) | | (671) |
| Ending Total Financing Obligations | \$ | 20,336 | \$ | 21,063 | \$ | 727 | \$ | 20,543 | \$ | 207 |



Recap of Financial Results

For 12 months ended September 30, 2022 (comparison to prior year)

Total Financing Obligations of \$20.3 billion

Cumulative partner and pandemic credits (since inception) of \$1.0 billion

No change in base rates

Diverse generating fleet helps mitigate extreme natural gas prices

Best financial health in decades



Audit, Finance, Risk, and Cybersecurity Committee

A.D. Frazier, Chair



People and Governance Committee

Brian Noland, Chair



External Stakeholders and Regulation Committee

Beth Harwell, Chair





President's Report

Jeff Lyash
President and CEO

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Nuclear Fleet









WB2 Steam Generators







Boone Dam Project







Power Demand

Twelve days this summer with peak demand above

30,000 Megawatts















Community Care Fund

Provided almost

\$18 Million

In matching donations over first 3 years

Partnering with LPCs to support more than 800 nonprofit and community programs.





Long-Term Partners

147 LPCs

96% of LPCs

Multiple Benefits Including

3.1% Bill Credit & Generation Option

Long-Term Alignment

Direct Engagement

in TVA Business planning process and decision-making



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Renewables

Issued RFP for up to

5,000 MW

Received proposals for

14,000 MW

Including solar, wind, nuclear, and energy storage

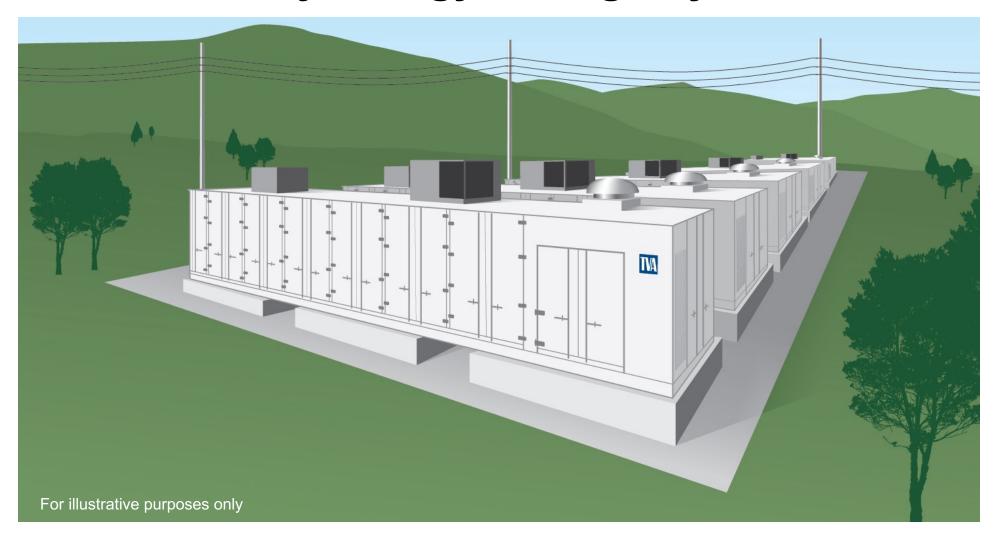


System Operations Center





Vonore Battery Energy Storage System





Southeast Hydrogen Hub

A coalition of Southeastern utilities and research and development organization Battelle





Nuclear Fleet







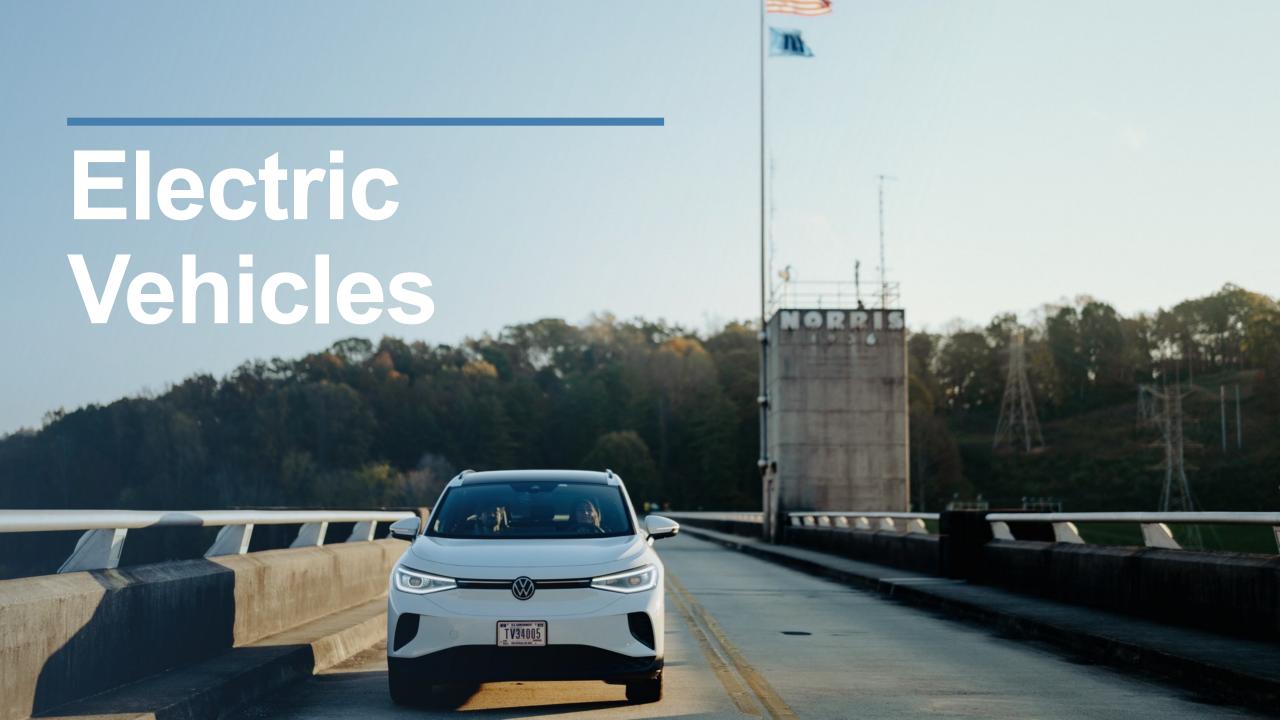




Accelerate progress toward our aspiration of net-zero carbon

Designed to develop, deploy and safely and economically operate viable advanced nuclear reactors

Develop a roadmap for our exploration of advanced nuclear technologies



Electric Vehicle and Battery Manufacturers in the TVA Region

More than 12,000 Jobs \$8.2 Billion

in capital investments



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TENNESSEE VALLEY AUTHORITY