Investment Challenge Program 2024 Annual Conference

April 2 - 3, 2024

Nashville, TN



WELCOME

Ben Duby, CPA Sr. Program Manager, Corporate Investments, TVA



Agenda

Day 1

12:30 pm – Welcome Session: TVA Overview and ICP – History & Performance

1:15 pm – Break (Group Photo)

1:30 pm – Student Presentation Breakout Session

3:00 pm – Break

3:45 pm - Economic Outlook and Portfolio Construction

5:00 pm – Student Networking and Professor Breakout Session

6:30 pm - Dinner and Awards Ceremony



Agenda

Day 2

7:45 am – Breakfast Opens

8:30 am – Public Markets Investment Manager Panel

9:40 am - Break

9:55 am – Presentation of CY23 Top Performing Universities

11:15 am – Private Markets Investment Manager Panel

12:30 pm – Lunch and Wrap Up

Conference material available on tva.com/investment-challenge/conference QR code on name badge



TVA OVERVIEW

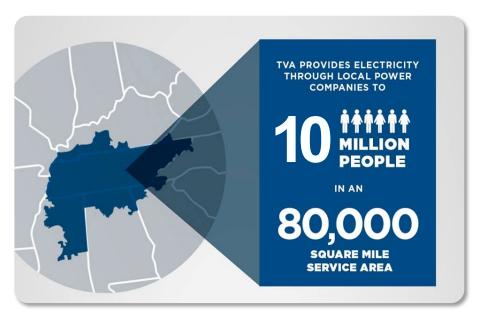
Nick Newton, CFA Analyst, Corporate Investments, TVA



Mission To Serve

TVA was established by the U.S. Congress in 1933 to address a wide range of environmental, economic, and technological issues in the TN Valley region of the United States, including the need for low-cost electricity and navigation and flood control along the TN River system.

- Profit-neutral, self-funded
- AAA/Aaa/AA+ credit ratings
- \$10+ billion annual revenue
- \$50+ billion total assets
- 153 Local Power Companies and various directly-served customers
- 35,000+ MW power capacity
- 9 Member Board of Directors
- 10,000 employees





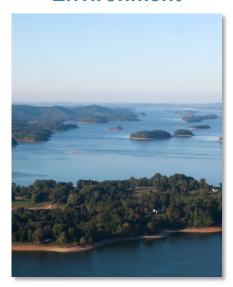
The TVA Mission

Energy



Provide affordable electric power throughout the Tennessee Valley

Environment



Act as a steward of the Valley's natural resources

Economic Development



Serve as a catalyst for sustainable economic development



Strategic Priorities

Focused on key priorities that will help TVA continue to achieve its mission



People Advantage

Amplifying the energy, passion, and creativity within us all.



Operational Excellence

Building on our best-in-class reputation for reliable service and competitively priced power.



Financial Strength

Investing in the future while keeping energy costs as low as possible.



Powerful Partnerships

Promoting progress through the shared success of our customers and stakeholders.

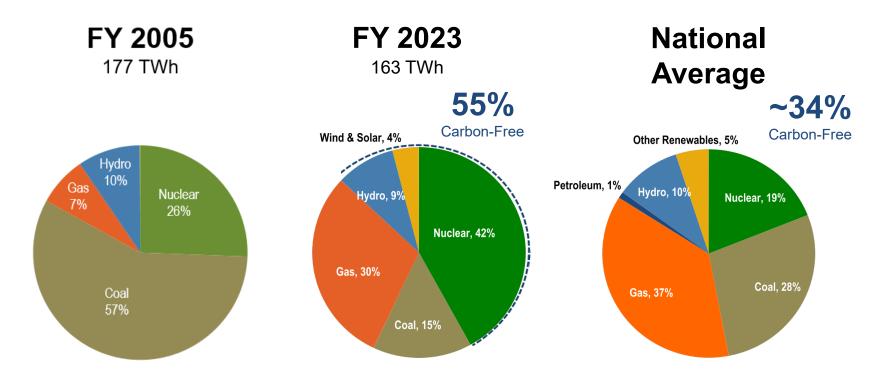


Igniting Innovation

Pursuing innovative solutions for TVA and our customers and communities.



Energy: Low cost, Reliable, Diverse and Clean Portfolio





Building the Energy System of the Future

AFFORDABLE / RELIABLE / RESILIENT / CLEAN



Affordable, Reliable, Resilient, Clean

Sources of Funding

Debt

Debt is primarily issued to fund large capital projects (e.g., new generating assets). Repayment through rates over time.

Statutory debt limit of \$30 billion

Revenues (Rates)

Primarily used to fund day-to-day operations (e.g., operating and maintenance expenses) – keeping in mind intergenerational fairness

- Required by TVA Act to keep rates as low as feasible

Investments

Allocated portion of rates invested to offset future obligations that would otherwise be collected through rates or debt – keeping in mind intergenerational fairness

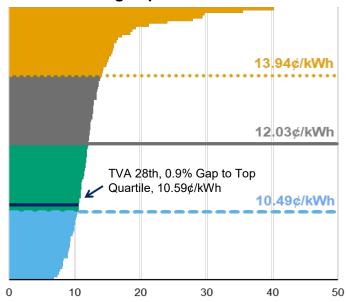
Repayment

Reduction

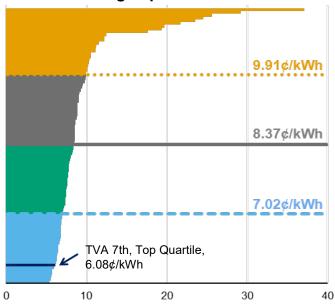


Power Rates Among the Lowest in the Nation





Average Industrial Rate (¢/kWh) Among Top 100 U.S. Utilities

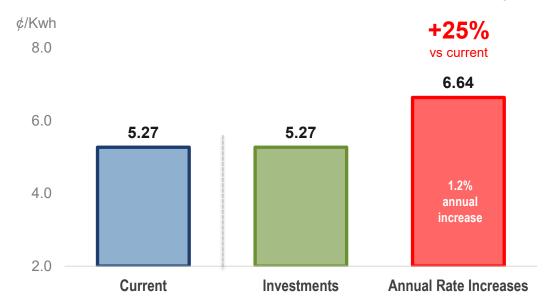




Impact of Investments on Rates

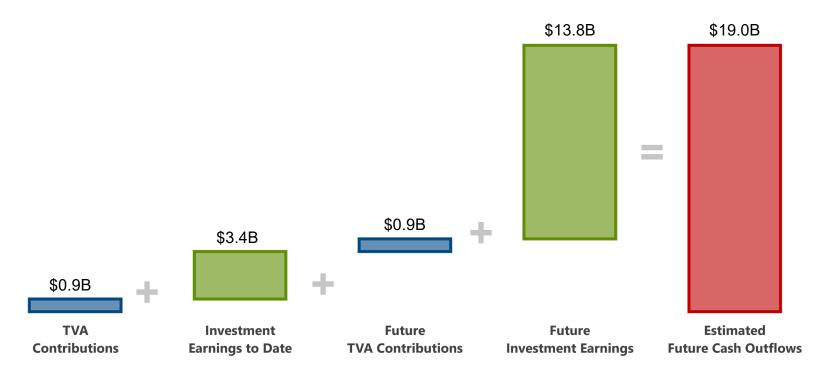
Additional Funds
Required to Meet
Obligations
\$23B

\$7B ART \$7B NDT \$9B TVARS Impact to base rates at FY2043 if funded by...



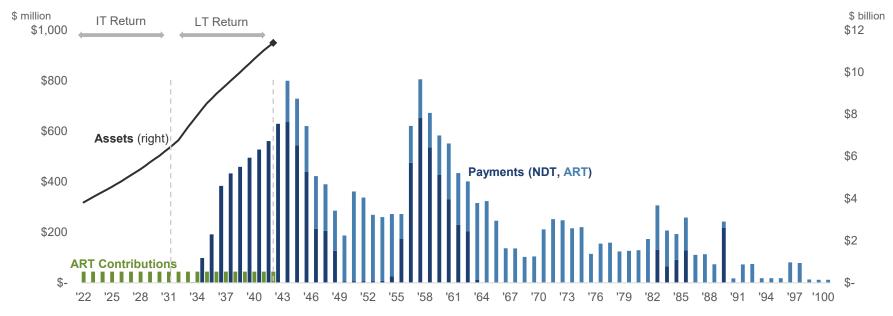


Impact of Trusts' Investment Returns



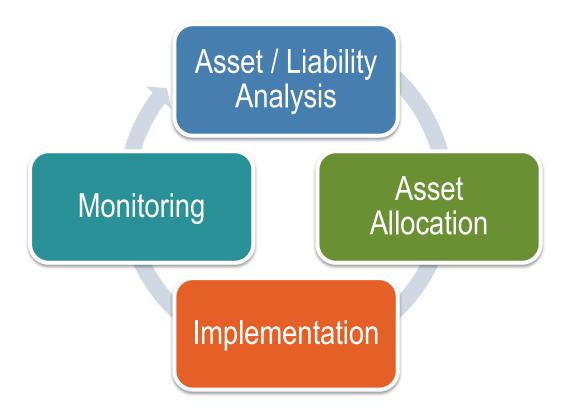


Where Do You fit in?



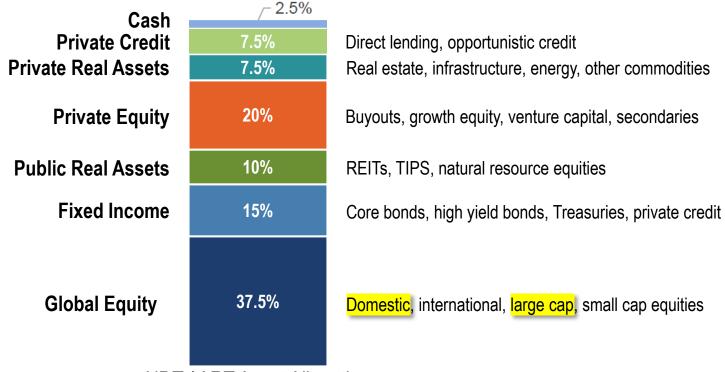


Investment Process





Asset Allocation







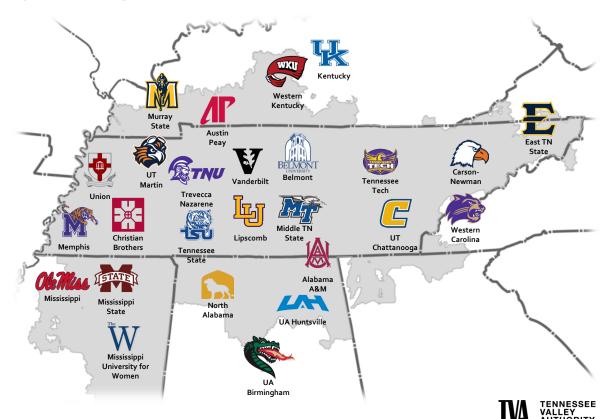
Investment Challenge Program

- Partnership with 26 universities that provides students a real-world experience
- One of the largest and longest running student-managed investment programs in the United States
- Students manage \$13 million in a strategic domestic equity allocation as part of a \$1.4 billion trust
- More than 10,000 students have participated in the program since it began in 1998
- Students have exceeded the return of the S&P 500 since the program's inception



Investment Challenge Program

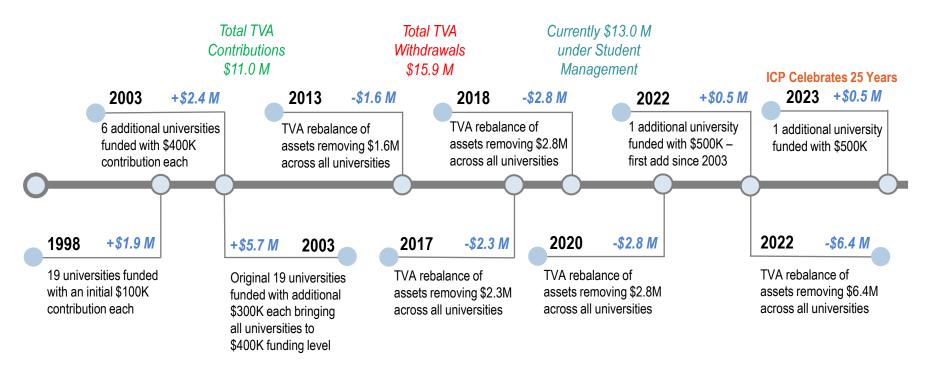
- This is where you...
 live,
 learn,
 work,
 and play
- Your work promotes low rates for everyone
- You are the future leaders of the communities that TVA serves



Investment Challenge Program History & Performance



History and Growth of the Investment Challenge Program



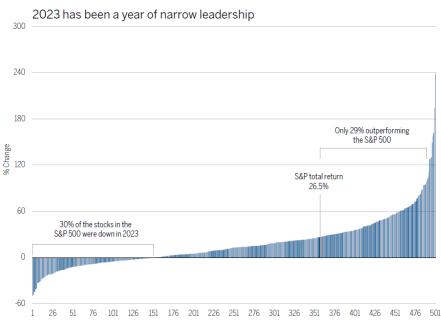


2023 Market Conditions



Key observations

- The US market is currently the most concentrated since the early 1970's
- $\bullet \ \ \text{Historically US market concentration has increased with economic uncertainty}$
- Periods of sharp increases in concentration tend to not persist as macro confidence improves
- Increased market breadth can come from mega-caps going down or everything else moving up – history is 50/50





2023 Market Performance





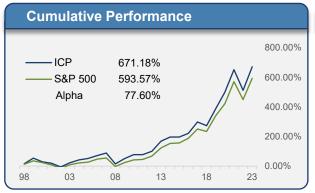


ICP Performance Dashboard – ICP Composite

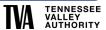
CY2023 Summary

Performance					
Portfolio AUM		\$13.5 million			
	Portfolio	S&P 500	Excess		
YTD	25.92 %	26.29 %	- 0.37 %		
1 Year	25.92 %	26.29 %	- 0.37 %		
3 Year	8.77 %	10.00 %	- 1.23 %		
5 Year	15.63 %	15.69 %	- 0.06 %		
ITD	8.46 %	8.00 %	0.46 %		
Portfolio Holdings		423 unique securities			

Ren	narks			
 Security selection contribution: +175 bps FY23 Sector allocation contribution: -184 bps FY23 		Portfolio Sector Weight v. Benchmark (% Info. Tech Real Estate Energy Health Care		
Top Contributors / Detractors			Consumer Disc. Utilities Financials	
Apple	269 bps	Pfizer	- 44 bps	Materials Consumer Staples
Nvidia	261 bps	Dollar Genera	- 37 bps	Industrials Comm Services
Microsoft	208 bps	NextEra Energy	- 33 bps	Non-US Equity
Amazon	176 bps	J & J	- 19 bps	Cash & Other
Meta	126 bps	Moderna	- 16 bps	(3.00) (2.00) (1.00) 0.00 1.00 2.00 3.00







Next: Group Photo & Student Presentation Breakouts



Breakout Room Assignments

Room	Universities
Armstrong 1	TN State, Middle TN State, MS State, Covenant
Armstrong 2	Vanderbilt, North Alabama, Austin Peay
McKissack 1	Univ. of KY, Univ. of TN at Chatt., Univ. of TN at Martin
McKissack 2	Carson Newman, AL at Birmingham, Union, Lipscomb
Robertson	East TN State, Murray State, MS Univ. for Women
Ryman 1	Univ. of MS, Trevecca, TN Tech
Ryman 2	AL A&M, AL in Huntsville, Belmont, Memphis
Ryman 3	Western KY, Christian Brothers, Western Carolina



TENNESSEE VALLEY AUTHORITY