

### Boilermakers Southeast Area Tripartite

David Sorrick Senior Vice President – Power Operations March 27, 2018

### TVA is Unique

#### Structure

Corporate agency of the United States with independent board

Fixed territory – can't expand

No shareholders – income reinvested in mission

#### Finances

Least-cost planning

No taxpayer funding – funded by power revenues

Statutory debt cap

#### Purpose

Electricity rates as low as feasible

Economic development for the Valley Flood control, navigation, land management



### **Board of Directors**



Richard Howorth, Chair Oxford, Mississippi Sworn in Dec. 16, 2015 Term expires May 18, 2020



Virginia Lodge Nashville, Tennessee Sworn in Dec. 23, 2014 Term expires May 18, 2019



Ronald Walter Memphis, Tennessee Sworn in Dec. 23, 2014 Term expires May 18, 2019



Eric Satz Nashville, Tennessee Sworn in Aug. 13, 2015 Term expires May 18, 2018



James "Skip" Thompson Huntsville, Alabama Sworn in Jan. 12, 2018 Term expires May 18, 2021



A.D. Frazier Mineral Bluff, Georgia Sworn in Jan. 9, 2018 Term expires May 18, 2022



Jeff W. Smith Knoxville, Tennessee Sworn in Jan. 11, 2018 Term expires May 18, 2022



Kenneth Allen White Plains, Kentucky Sworn in Jan. 11, 2018 Term expires May 18, 2021

#### **TVA's Mission of Service**







Energy

#### Environment

#### Economic Development

## Business Performance

### **Exceeding Expectations**



Lower Power Rates Reduced Operating Expenses by \$800 Million \$2 Billion in Capital Investments



### **Economic Development**

**70,000**JOBS Attracted or Retained

#### **RESULTING IN**

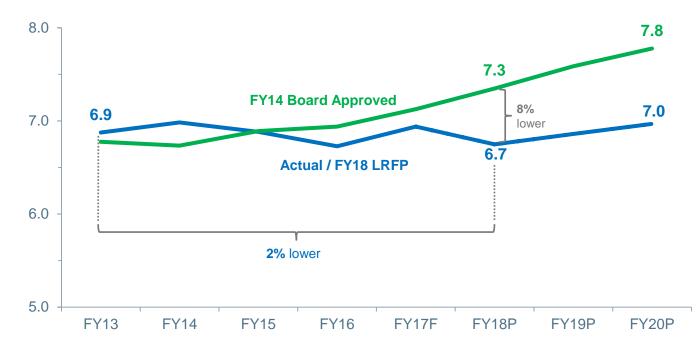
**\$8.3**billion Capital Investment

12<sup>th</sup> year in a row TVA NAMED America's for economic development



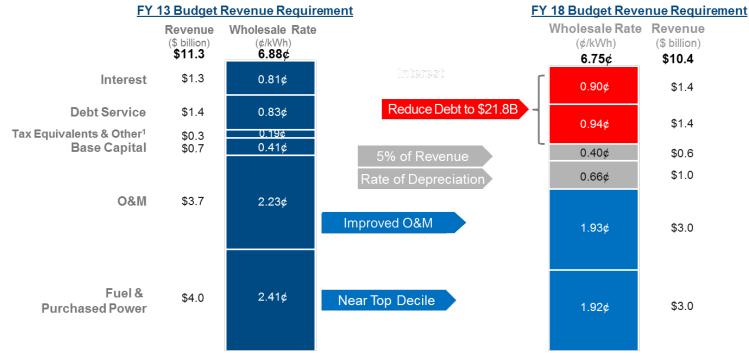
### Maintaining Low Rates

Wholesale Rate (¢/kWh)



M

### Debt Reduction the Key to Lower Rates



<sup>1</sup>Tax Equivalents & Other for FY13 excludes adjustment for pension expense



## **Business Sustainability**

TVA

173,000

160.000

153.000

140,000

132,000

120.000

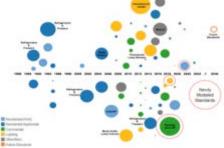
110.000





#### "We intend to achieve this goal, with or without you" – WalMart Exec

Historical Growth Rate



**Energy efficiency** 

penetration continues



350.000

300.000

250,000

295.00

### The Evolution has begun...

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## "It is not necessary to change, survival is not mandatory."

#### W. Edward Deming





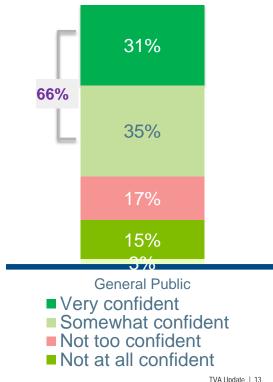


#### ... and the public thinks they can have it all

Percentage of 'having electricity generated from renewable sources' keeps increasing

People believe wind and solar are **reliable** and **affordable** energy sources

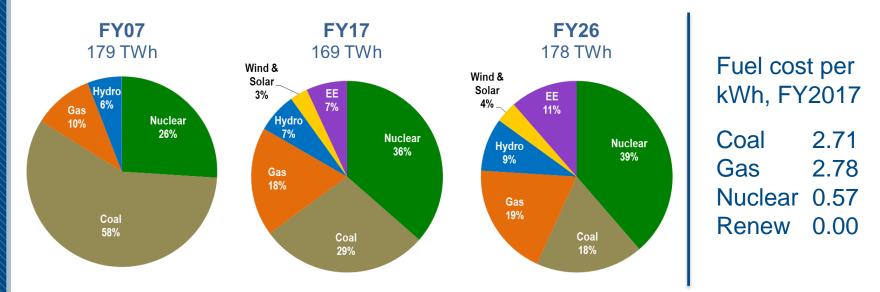
Which is most important to you	Total
Reliable electricity	39%
Low cost electricity	29%
Having electricity generated from renewable sources	28%
Don't know/Declined	4%



TVA

### Transition to a Diversified Asset Portfolio

Energy from non-emitting resources increases from 32% in FY07 to 63% by FY26



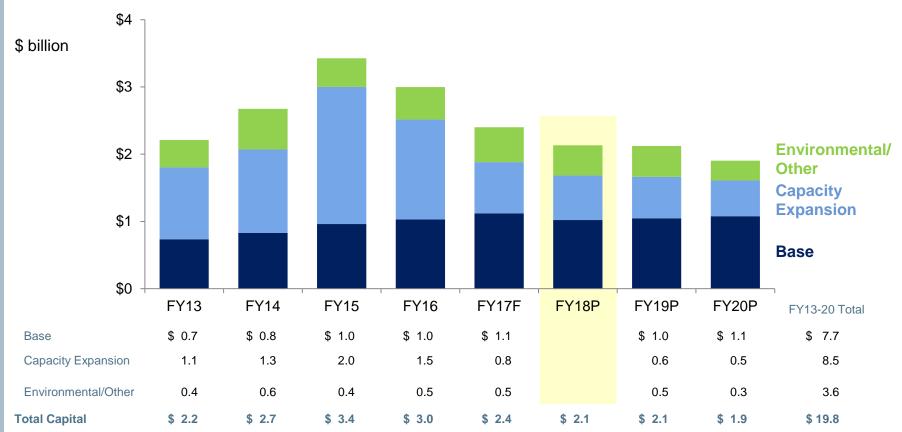
### While Caring for Each Other

From 2015 to 2018

- Idled 5 <sup>1</sup>/<sub>2</sub> plants
- Relocated 325 employees
- Voluntary exits of 510 employees
- Robust career transition services
- Two involuntary exits

## **Project Updates**

### **Capital Expenditures**



Capital Expenditures include AFUDC, ARO/Decommissioning, Kingston Ash Cleanup and Bellefonte Regulatory Asset Spend.

### **Paradise Combined Cycle**

- In service: April 7, 2017
- Safety incident rate: 0.40
- 2.5 million man hours
- \$995 million
  (\$220 million under budget)
- 1,025 MW



## Allen Combined Cycle

- Estimated in service first quarter of 2018
- Safety incident rate: 0.08
- \$975 million budget
- 1.1 million man hours to date
- 1,076 MW





### Others

#### **Gallatin Clean Air**

• Complete

• \$1.1 billion

- 6.85 million man hours
- Safety incident rate of 1.23

#### Johnsonville Combined Cycle

January 1\$157 million

#### Shawnee Clean Air

• Complete

• \$206 million

- 1.23 million man hours
- Safety incident rate of 0.17

#### Browns Ferry Extended Power Uprate

- 3 Outages February 2018 April 2019
- 165 MW added

#### Coal Combustion Residuals

- Through 2031
- \$2.75 billion
- Safety incident rate of 0.61

# Our Partnership

### **TVA is Unique**

36% of our workforce performs a skilled craft

100% of our skilled crafts people are represented

We couldn't be more proud

YOU are our most critical internal partner in business sustainability



### We Need Your Help

#### **Create the highest performing craft workforce in the nation**

#### A passion for:

- Keeping each other safe
- The mission
- Only working with the highest skill, most committed, most respectful talent
- **Teaching** the next generation
- Making the changes needed to serve the Valley

#### **Peer-to-peer** intolerance for:

- Crossing safety barriers
- Not being work ready
- Less than journeyman skill
- Quality issues
- Poor leadership

