

Board Meeting

May 7, 2020

Knoxville, TN



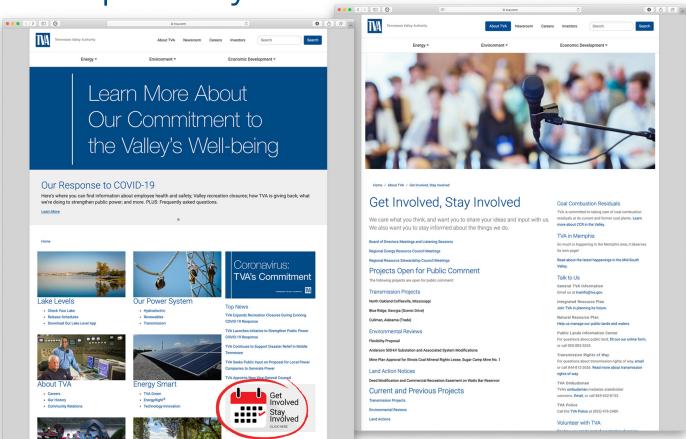
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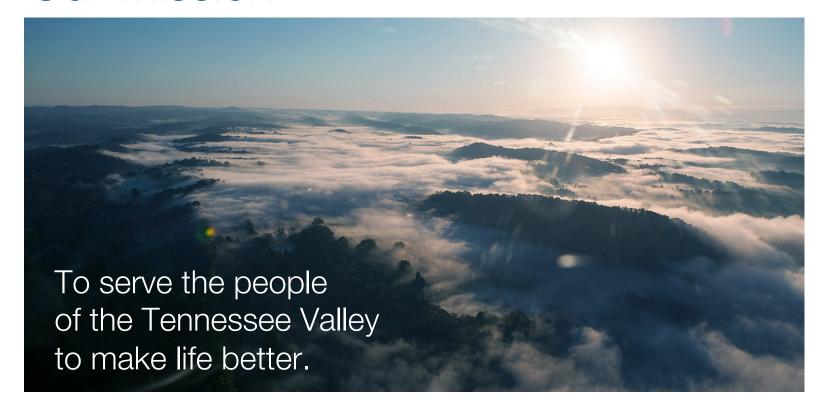
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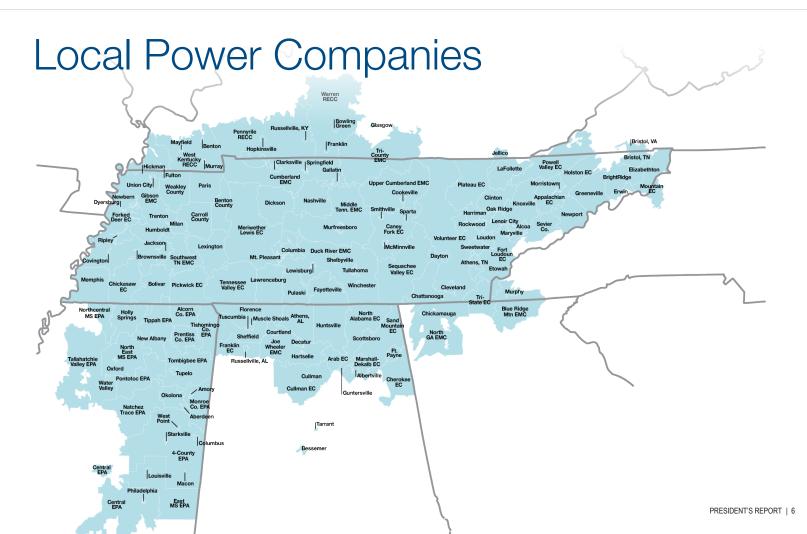


Transparency



Our Mission



























87 Years of ServiceMay 18, 2020







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Purpose and Background

Purpose

 Request that the TVA Board of Directors approve an updated TVA Environmental Policy

Background

- Benchmarked policy statements of other utilities, industries, and federal agencies
- Revised and updated the policy with review from company leaders
- Presented and gained approval of revised policy by the External Relations Committee



Environmental Policy Statement

TVA is committed to improving quality of life and the environment in the Tennessee Valley by providing increasingly cleaner, reliable and affordable energy; engaging in proactive stewardship of the Tennessee River system and public lands; and supporting sustainable economic growth.



Goals of Policy Update

- Align with TVA's overall mission
- Focus on strong Environmental Management System
- Set clear direction and better communicate environmental goals
- Partnerships with local power companies and communities across the Valley
- Better clarify the path to continued sustainability



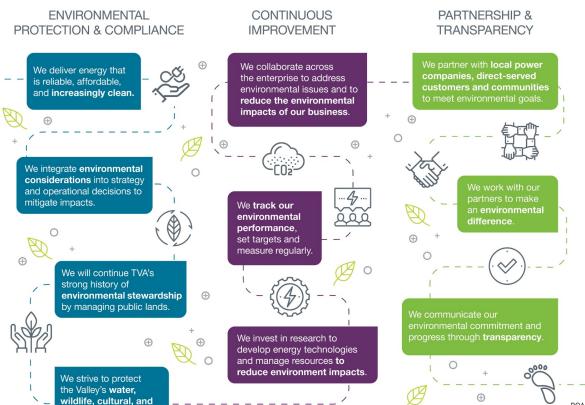
Environmental Policy

recreational resources

TVA improves quality of life and the environment in the Tennessee Valley by providing reliable, affordable and increasingly clean energy; engaging in proactive stewardship of the TN River system and public lands; and supporting sustainable economic growth.

We comply with applicable environmental laws, regulations, and commitments. We maintain an Environmental Management System (EMS) that fosters continuous improvement.





Recommendation

Approve TVA's updated Environmental Policy

 Environmental performance and strategy will be reviewed by the Board of Directors at least once annually.





Purpose and Background

Purpose

 Request that the TVA Board of Directors accept the 2020 Natural Resource Plan (NRP) update and authorize TVA's President and Chief Executive Officer to approve future updates to the NRP

Background

- The NRP was initially approved by the Board and published in 2011.
- A holistic review of the NRP determined an update was needed.

NRP Update

- Improves alignment with TVA's Mission
- Updates areas of focus and defines objectives and programs for each focus area
- Creates a more flexible and effective method to plan, execute, and measure stewardship work
- Strengthens engagement with the public

Focus Area Summary

- Reservoir Lands Planning
- Section 26a and Land Use Agreements
- Public Land Protection
- Land and Habitat Stewardship
- Nuisance and Invasive Species Management
- Cultural Resource Management
- Water Resources Stewardship
- Recreation
- Nature-based, Outdoor Adventure and Sustainable Tourism
- Public Outreach



NRP Public Involvement

- Prepared and released for public comment a Supplemental Environmental Impact Statement in May 2019
- Held public meetings
- Utilized the Regional Resource Stewardship Council as a stakeholder review group

Public Input Summary

- Comments received included expressions of support, as well as suggestions for improvement.
- Comments were addressed, as appropriate, in the final NRP and Supplemental Environmental Impact Statement.
- Updated NRP and Supplemental Environmental Impact Statement documents were released to the public in February 2020.



Benefits of 2020 NRP Update

- Enhances strategic guidance and alignment of natural resources work
- Creates a flexible and responsive plan
- Broadens programmatic scope
- Includes measures of success
- Increases public input opportunities and transparency

Recommendation

Accept the 2020 NRP update and authorize TVA's President and Chief Executive Officer to approve future updates to the NRP

 Updates will be provided annually to the External Relations Committee.









Evolving Uncertainties

What we know

- FY20 and FY21 load and revenues will be lower than FY20 Budget
- Daily energy averaging 4%-8% lower than expected
- Currently, 74 large Commercial and Industrial (C&I) customers scaling back operations; average hourly energy of 576 MWs
- \$2.2T stimulus bill signed by the President
- Over 26 million* Americans became unemployed in the last five weeks

What we do not know

- Extent of social distancing practices
- Length and depth of economic downturn
- Operational impacts to C&I customers
- Permanent demand reductions from failed businesses
- Effect of federal stimulus packages
- Losses due to uncollectible revenue
- Anything medically related to COVID-19

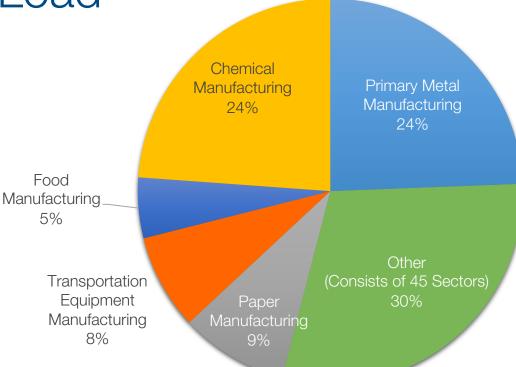


Breakdown of TVA's Load

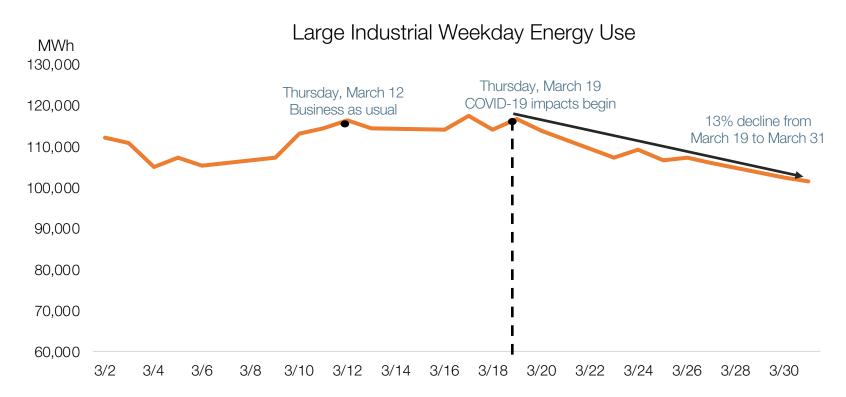
) [Percentage of Load	Sector	Characteristics
	25%	Large Industrial (>5MW)	700 accounts
	10%	Medium Commercial & Industrial (>1MW)	2,000 accounts Typically industrial and manufacturing
	25%	Small Commercial & Industrial (<1MW)	750,000 accounts Typically commercial
	40%	Residential	4,000,000 accounts Highly weather sensitive

Breakdown of Large Industrial Customer Load

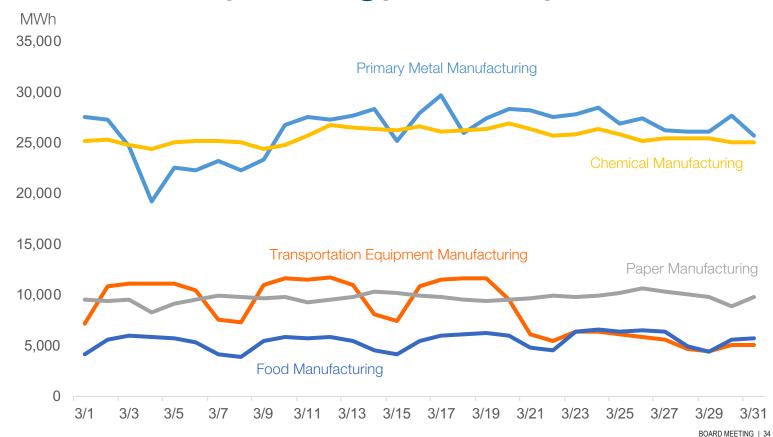
70% of large industrial energy used in one of five sectors



Large Industrial Energy Use Down 13%



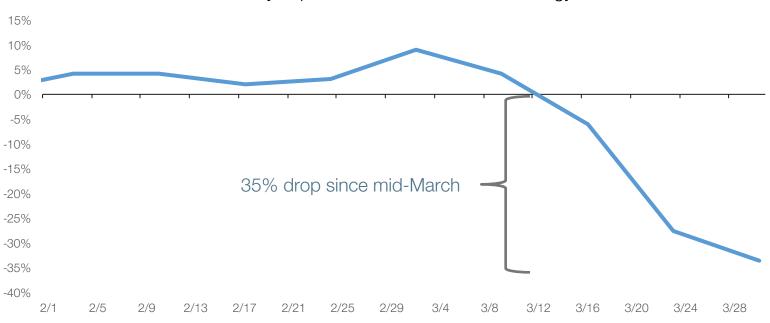
March Daily Energy Use By Sector*





Small Commercial Accounts Taking Large Hit

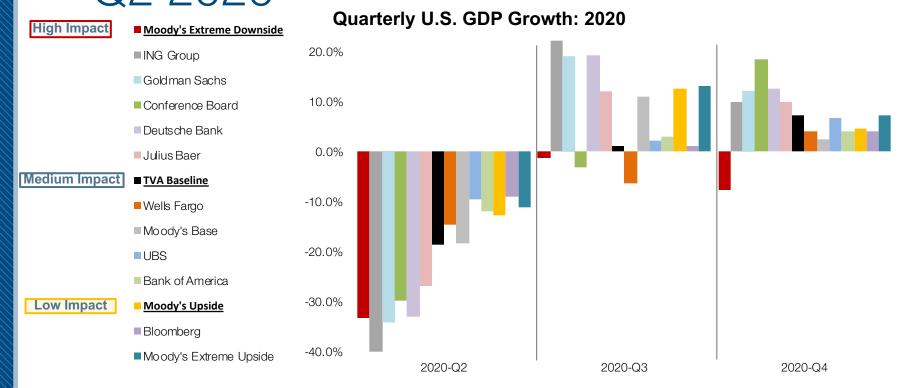
Weekly Impact on Small Commercial Energy*



Includes restaurants, small retail shops, schools, malls, etc.



Quarterly Forecasts All Negative in Q2 2020



What's Next?

- Evaluating new economic data and scenarios
- Tracking actual impacts to daily load and customers
- Developing management dashboards and updates
- Monitoring credit risks and relief efforts





Q2 Fiscal Year 2020*

Net Income was \$88M favorable to budget

Base Revenue was \$39M favorable to budget

Total Financing Obligations (TFO) were \$445M less than budget

*Excluding Partnership Credits. TFO variance is net of Additional Cash Held and Cash Partnership Credits.



Q2 Summary Income Statement

	FYTD20			FYTD19		
\$ millions	Actual	Budget	Variance Fav/(Unfav)	Actual	'20 v '19 Fav/(Unfav)	
Total Operating Revenue	\$ 5,099	\$ 5,130	\$ (31)	\$ 5,475	\$ (376)	
Fuel & Purchased Power	1,323	1,318	(5)	1,494	171	
Total O&M	1,333	1,331	(2)	1,545	212	
Taxes, Depreciation, Other	1,420	1,439	19	1,170	(250)	
Interest	576	613	37	602	26	
Net Income (Loss)	\$ 447	\$ 429	\$ 18	\$ 664	\$ (217)	
Partnership Credits	70	-	70	-	70	
Net Income (Loss) excluding Partnership Credits	\$ 517	\$ 429	\$ 88	\$ 664	\$ (147)	

Q2 Summary Cash Flow Statement

\$ millions	FYTD20			FYTD19	
Net Cash Provided by / (Used in)	Actual	Budget	Variance	Actual	'20 v '19
Operating Activities	\$ 1,870	\$ 1,807	\$ 63	\$ 1,747	\$ 123
Investing Activities	(1,010)	(1,117)	107	(1,040)	30
Financing Activities	(324)	(691)	367	(706)	382
Ending Debt and Financing Obligations	\$ 22,491	\$ 22,338	\$ (153)	\$ 23,590	\$ 1,099
Additional Cash Held	(535)	-	535	-	535
TFO Net of Additional Cash Held	\$ 21,956	\$ 22,338	\$ 382	\$ 23,590	\$ 1,634
Cash Partnership Credits	(63)	-	63	-	63
TFO Net of Additional Cash Held and Partnership Credits	\$ 21,893	\$ 22,338	\$ 445	\$ 23,590	\$ 1,697

Q2 Summary (Results v. Plan)

Revenues essentially on plan

Expenses favorable to plan

TFO net of cash favorable

Increased liquidity (\$500M cash)

Q3 will be challenging





Background

In March 2020, TVA released a renewable request for proposals.

Commercial energy agreements, programs, and related contracts are funded through the annual budget approved by the Board and have become a routine part of TVA distributed energy resources and power supply operations. An updated delegation for these contracts would improve efficiency and better meet the TVA Bylaws' directive that calls for broad goals and objectives to be established by the Board and achieved by the CEO.

Overview

- A single comprehensive TVA Board Practice or delegation of authority regarding commercial energy agreements, programs, and related contracts does not exist
- An opportunity exists to develop a singular delegation for these contracts that would streamline activities and increase organizational efficiencies
- In FY20, due to system and customer capacity needs, TVA expects to surpass the 1,250 MW supplemental delegation limit, which was approved in August 2019 as part of TVA's Annual Contracting Plan

Recommendation

- Implementation of a new Board Practice, replacing existing delegations, that will allow the CEO to approve any commercial energy agreement, program, or related contract in any amount with energy durations of up to 20 years and terms of up to 25 years, that is consistent with the annual Board approved Contracting Plan or has been previously approved by the Board, beginning with the August 2020 approval of the FY21 Contracting Plan
- Increase the CEO's contracting authority in FY20 from 1,250 MW to 3,000 MW, in order to execute additional natural gas-fired and renewable capacity opportunities for meeting system and customer needs











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