



Use of Programmatic Evaluations for Efficient NEPA Reviews

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Agenda

- Tennessee Valley Authority Overview
- Programmatic Approach and Environmental Screening Checklist
- Programmatic Assessments
 - Construction and Operation of Beneficiation Processing Facilities
 - Groundwater Corrective Actions
 - Resilience 360
- Potential Future Application
- Questions

Tennessee Valley Authority Act



3 TVA Act to address poverty, flooding, deforestation, and lack of electricity



Constructed dams to control flooding, improve navigation, and create electric power

TVA Mission

ENERGY



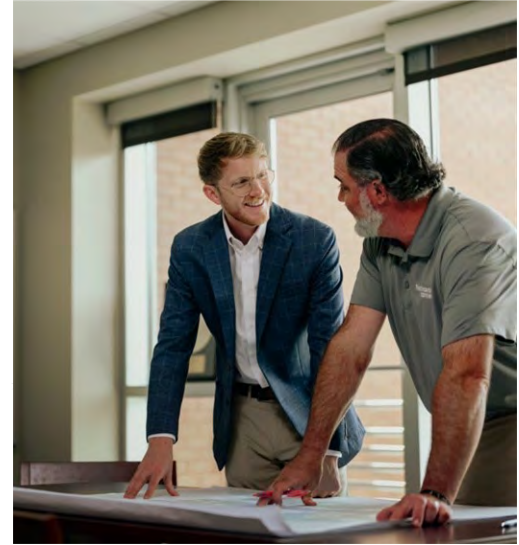
Provide affordable,
reliable power

ENVIRONMENTAL STEWARDSHIP



Steward the Valley's
Natural resources

ECONOMIC DEVELOPMENT



Partner for economic
growth

Tennessee Valley Authority



Largest Public Power
Provider

- >16,400 miles transmission lines
- Serves >10 million in parts of 7 states

Tennessee Valley Authority



Manages
Public Land

- 293,000 acres of public land & 11,000 miles of shoreline
- Manages Tennessee River system

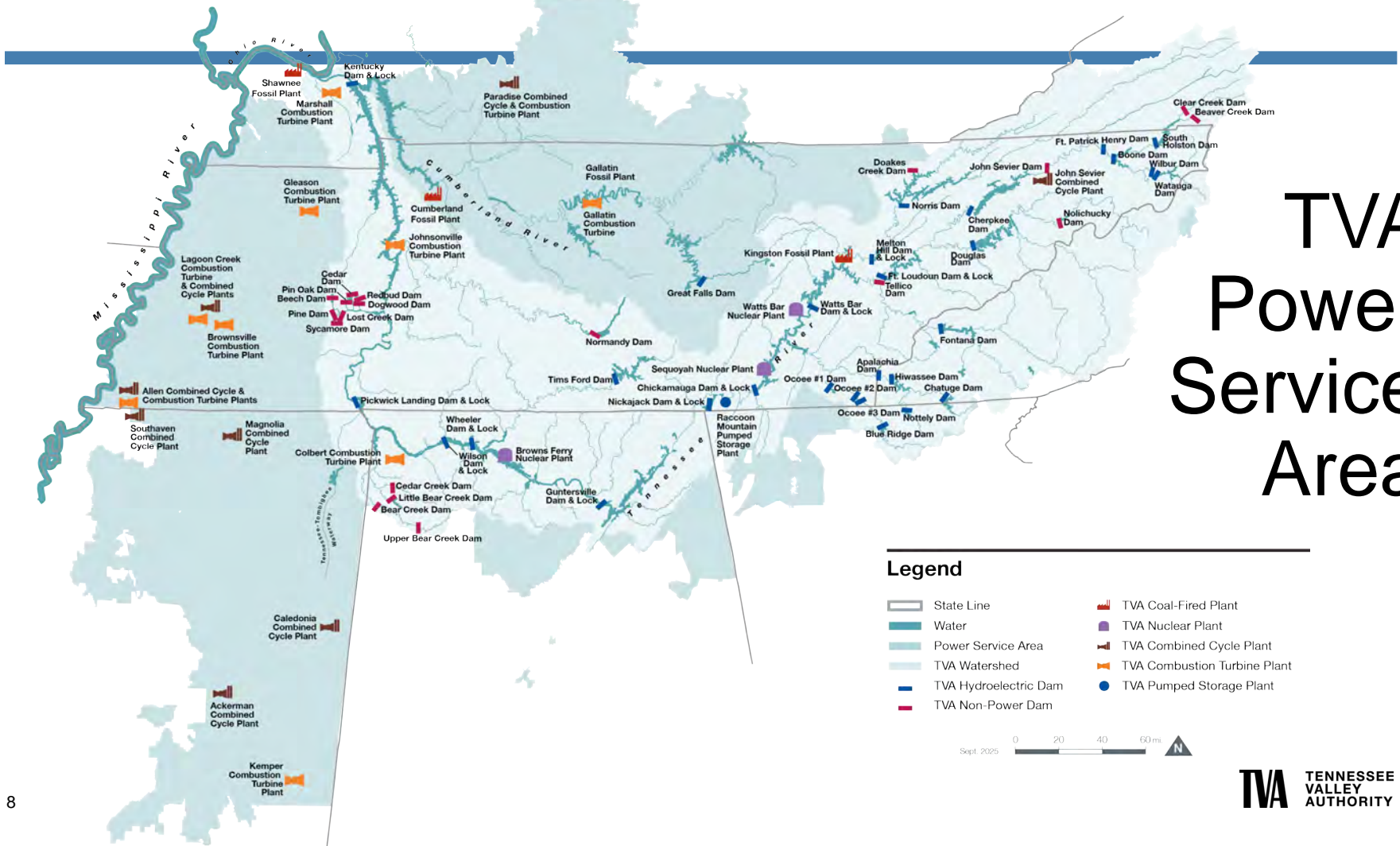
Tennessee Valley Authority














Economic Development

- Partner with local power companies, economic development organizations, and federal agencies

TVA Power Service Area



Legend

-  State Line
-  Water
-  Power Service Area
-  TVA Watershed
-  TVA Hydroelectric Dam
-  TVA Coal-Fired Plant
-  TVA Nuclear Plant
-  TVA Combined Cycle Plant
-  TVA Combustion Turbine Plant
-  TVA Pumped Storage Plant
-  TVA Non-Power Dam



Programmatic Approach

- ✓ Need efficiencies for proposed actions for multiple sites (100s of potential sites)
- ✓ No applicable Categorical Exclusions
- ✓ Cost and schedule prohibitive to prepare dozens to hundreds of individual EAs
- ✓ Use PEA to develop new guidance, including an Environmental Screening Checklist, and bounding criteria/values/tables to establish general siting and environmental criteria

Environmental Screening Checklist

- ✓ Site-specific reviews tiered from the PEA
- ✓ CE-like review including full subject matter expert review with field surveys and consultations as appropriate
- ✓ Environmental Screening Checklist verifies site-specific scope is within the bounding parameters of the PEA
- ✓ If project falls outside of bounding values, consider project modifications, supplemental EA, or project may not move forward

In accordance with the National Environmental Policy Act (NEPA) and TVA's implementing regulations, TVA must evaluate and document whether the proposed action described within this document is already covered under an existing NEPA review. The following questions record the evaluation of four criteria for making this determination.

Determination of NEPA Adequacy	
<input type="checkbox"/> Yes <input type="checkbox"/> No	Is the site-specific proposed action bounded by the proposed action as analyzed in the TVA Groundwater Corrective Action PEA? If no, please describe:
<input type="checkbox"/> Yes <input type="checkbox"/> No	Are there significant circumstances or information relevant to site-specific environmental concerns that would substantially change the analysis in the TVA Groundwater Corrective Action PEA? If yes, describe:
<input type="checkbox"/> Yes <input type="checkbox"/> No	Are there effects that would result from the site-specific proposed action that were not addressed in the TVA Groundwater Corrective Action PEA? If yes, describe:
<input type="checkbox"/> Yes <input type="checkbox"/> No	Is additional site-specific NEPA necessary? If yes, explain:

Based on the evaluation documented herein, I conclude that the TVA Groundwater Corrective Action PEA and Finding of No Significant Impact (FONSI) fully covers the proposed site-specific action and constitutes TVA's compliance with the requirements of NEPA. The site-specific project does not present significant changes to the proposed action or significant new circumstances or information relevant to environmental concerns that would require supplemental analysis. Impacts associated with the proposed action would be minor to moderate and are bound by the conclusions of the Final PEA and FONSI. This form documents TVA's compliance with the National Environmental Policy Act for this site-specific action.

 NAME
 Manager, NEPA Program
 Project Support
 Tennessee Valley Authority

 Date Signed

Environmental Screening Checklist

Coal-Fired Fossil Plants

- Coal Combustion Residuals (CCRs)
- Storage - Surface impoundments, landfills, CCR units
- Beneficial Reuse
 - Main commercial-use applications are in manufacturing
 - Produces environmental, economic, and product benefits



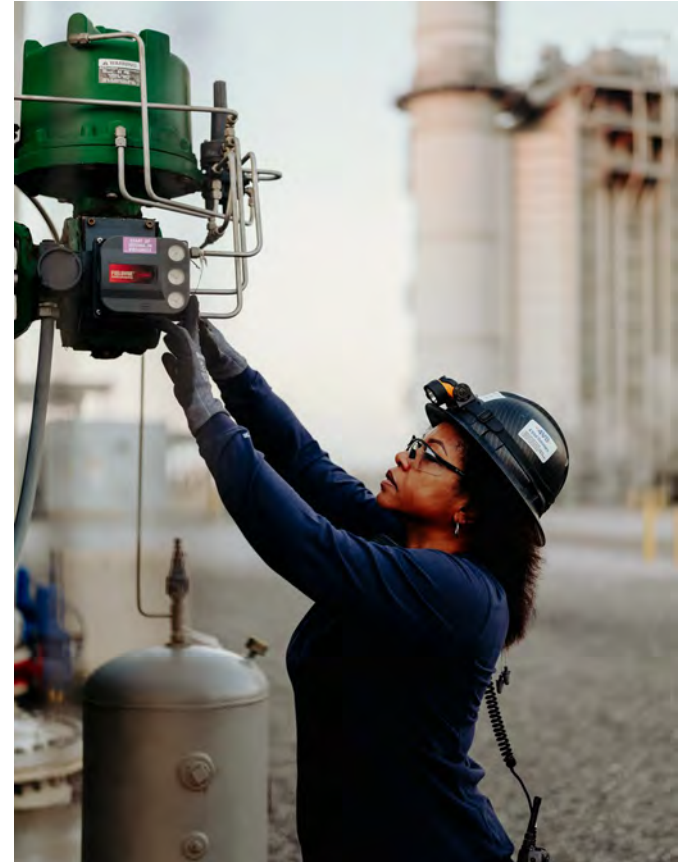
Construction and Operation of Beneficiation Processing Facilities

- Programmatic Environmental Assessment – Supports potential construction of CCR beneficiation processing facilities at TVA coal-fired fossil plant sites
- Beneficiation Processing Facilities - Improve the quality CCR to meet commercial/industry specifications



Groundwater Corrective Actions

- Potential groundwater impacts from historic CCR disposal practices
- Compliance with applicable groundwater protection standards
- Programmatic Environmental Assessment – Groundwater Corrective Actions



Resilience 360°

- Commercial resiliency program in partnership with vendors and hosts
- For use during qualifying events that challenge the transmission of power on the grid and to periodically support demand on the TVA system
- ~100 kW to 25 MW from onsite modular natural gas units or battery energy storage systems
- TVA to have control and dispatch rights during normal grid conditions when not in use by the host



Future Application



Questions?

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Project Websites

- Construction and Operation of Beneficiation Facilities:

<https://www.tva.com/environment/environmental-stewardship/environmental-reviews/nepa-detail/construction-and-operation-of-beneficiation-processing-facilities>

- Groundwater Corrective Action:

<https://www.tva.com/environment/environmental-stewardship/environmental-reviews/nepa-detail/groundwater-corrective-action>

- Resilience 360° Program:

<https://www.tva.com/environment/environmental-stewardship/environmental-reviews/nepa-detail/resilience-360--program-programmatic-environmental-assessment>

TVA

**TENNESSEE
VALLEY
AUTHORITY**