

Regional Resource Stewardship Council

August 21-22, 2023



Welcomel

The RRSC Meeting will begin at 12:00 pm Central

Welcome



Welcome Jeannette Mills

TVA EVP & Chief External Relations Officer



RRSC Live and Virtual Meeting

- We welcome members of the public attending in person and virtually. Those attending virtually are in view and listen only mode. There will be a Public Listening Session at this meeting. Written comments are always welcomed (tva.com/rrsc).
- Any RRSC Members who are attending virtually are able to mute and unmute their own line. Council Members who are attending virtually may use the raise hand function to be recognized for questions or comments.
- RERC Members attending in person, please turn on your light when you want to comment or ask a question and I will call on you. I will identify the person I call on so that those attending virtually will be able to identify the speaker. Please speak loudly so that those in the room and those attending virtually can hear your comments.



Safety First!

- In case of fire or other building
 emergency, exit the doors you entered to
 the room. Exit the building via the front
 doors. Turn right and gather outside.
- In case of severe weather, you will be guided to an interior room.





Introductions

Name

Position, Organization, Location

Looking Forward to this Fall



RRSC Term 12 Members

Ryan Brown Commonwealth of Virginia

RaeLynn Butler Muscogee (Creek) Nation

Keith Carnahan Meriwether Lewis Electric Cooperative

Alan Gates Pennyrile Electric

Richard Holland Packaging Corp of America

Cline Jones Tennessee River Valley Association

Kim Klinker Klinker Management Ron Lambert Nature Conservancy

Whitney Lipscomb State of Mississippi

Tom Littlepage* ADECA Office of Water Resources

John McConnell McConnell Insurance Commonwealth of Kentucky

Will Nelson Nelson Tractor Co. State of Georgia

Ron Robertson TN Farmer

* Council Chair

Introductions:

Name Position, Organization, Location Looking Forward to this Fall

> David Salyers State of Tennessee

Sen. Clay Schofield Alabama Senate, District 9

Danette Scudder TN Valley Public Power Association

Bob Sneed Retired, Army Corps of Engineers

Catherine Via TN Farm Bureau Federation

Stacey White Arab Electric Cooperative, AL

Randy Wiggins Cherokee County, NC



Agenda

RRSC Meeting – Day 1 August 21, 2023 Guntersville, AL

All times are CT

12:00 pm	Welcome Designated Federal Officer Melanie Farrell; RRSC Chair Tom Littlepage Jeannette Mills, TVA Executive VP and Chief External Relations
12:10	Introductions of Council Members – Jo Anne Lavender, Facilitator
	Agenda Review
12:30	DFO Briefing – Melanie Farrell, VP, External Strategy & Reg Oversight
12:45	Break
1:00	TVA's Sustainability Program, Review Pre-Read Rebecca Tolene, VP, Environment and Chief Sustainability Officer
1:20	Sustainability Priorities Assessment Workshop EPRI and Tiffany Foster, Sr Program Manager, Env & Energy Policy (Break will occur in the middle)
4:15	Break
4:30	Public Listening Session
5:30	Day 1 Closing Remarks Adjourn

Е

RRSC Meeting – Day 2

Agenda

	August 22, 2023 Guntersville, AL All times are CT
12:30 pm	Welcome –Designated Federal Officer Melanie Farrell RRSC Chair Tom Littlepage
12:35	Day 1 RecapFacilitator, Jo Anne Lavender
	Day 2 Agenda Review
12:40	Finalize Advice Statement
2:00	Break
2:15	Natural Resources Update – Anthony Summit, Sr. Mgr, Nat Res & Rec Mgt River Management Update – James Everett, GM, River Management
2:45-4:45	Cultural Compliance Presentations
2:45	Cultural Resources and TVA, Melanie Farrell, VP, External Strategy
2:55	Respecting Tribal Sovereignty and The Importance of Government-to-Government Relationships RaeLynn Butler, Manager, Tribal and Cultural Preservation Department, The Muscogee (Creek) Nation
3:10	TVA's Tribal Relations Program, Erin Dunsmore, Sr Specialist, Archaeology
3:25	Break

Agenda

RRSC Meeting – Day 2 Page 2 August 22, 2023 Guntersville, AL All times are CT

Cultural Compliance Presentations (cont.)

- 3:40 **NHPA Preservation Program,** Erin Dunsmore, Sr Specialist, Archaeology
- 3:55 Archaeological Site Monitoring and Protection Erin Dunsmore, Sr Specialist, Archaeology
- 4:05 **ARPA Enforcement,** Mike Angst, Archaeologist
- 4:15 **NAGPRA,** Meg Cook, Sr Specialist, Archaeology
- 4:25 Wrap Up, RaeLynn Butler, Manager, Tribal and Cultural Preservation Department, The Muscogee (Creek) Nation
 - 4:40 **Wrap Up & Questions,** Melanie Ferrall, VP, External Strategy & Reg Oversight

4:55 pm Next Meetings Adjourn



FAC Meeting Requirements



Federal Advisory Committee Act Meeting Requirements

Agenda

- Prepared and approved by the DFO, or alternate DFO, in consultation with Council Chair
- Distributed to Council and an outline is published in the Federal Register prior to each meeting
- Topics may be submitted for consideration to the DFO by any member of the Council, or non-members, including members of the public

Meeting Minutes

 DFO will ensure that minutes are prepared for each meeting, approved by the Chair, and made available to Council members and the public

Voting

- Any member of the Council may make a motion for a vote
- Quorum is a majority of the seated members of the Council as defined in the bylaws
- Advice requires an affirmative vote of majority of Council members present
- Advice may include minority or dissenting views

Membership

- Balanced Membership
- Professional or personal qualifications to achieve the mission of the Committee
- Broad range of diverse views and interests



TVA Update

Melanie Farrell, Designated Federal Officer



Building the Energy System of the Future



AFFORDABLE / RELIABLE / RESILIENT / CLEAN



National Leader in Carbon Reduction



BREAK



Sustainability Update

Rebecca Tolene VP Environment and CSO

August 21, 2023

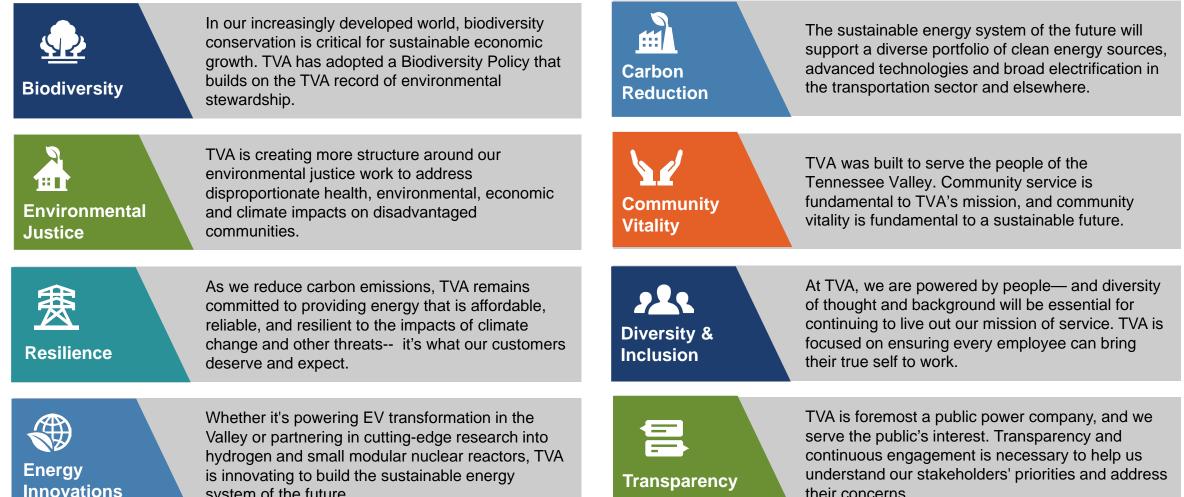
What is Sustainability?

Sustainability for TVA means ensuring our ability to provide the people of the Tennessee Valley with affordable and reliable electricity, a healthy environment, and a prosperous economy - without compromising the ability of future generations to do the same.

What is TVA doing in Sustainability?

Sustainability informs programs and initiatives across TVA.

system of the future.



Transparency

their concerns.

Sustainability by the numbers

315,231 total tons

of carbon avoided through TVA EnergyRight® programs

99% reduction

in SO₂ emissions from 1977

\$10.2 billion+

3.35 GWh of energy

saved through energy efficiency improvements in TVA buildings; Top-ranked federal agency in the country for energy use intensity reduction against a 2003 baseline

97% reduction

in NO_x emissions from 1995

449

total environmental outreach and stewardship projects sponsored

\$3 million

in estimated flood damage averted in the Tennessee Valley in 2022

projected capital investments attracted to the region

\$3 million

in grant funding for 13 pilot projects between 2022 and 2024 through TVA's Connected Communities initiative

26K+

projected job creation

\$9 million+

donated in community contributions and disaster relief

40K+

projected job retention

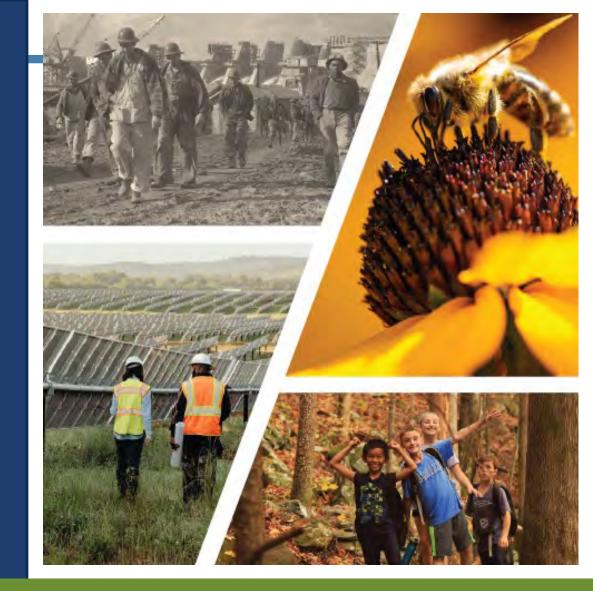
Top 15

Best Employers in Tennessee by Forbes magazine in 2022 for the fourth consecutive year



FY 22 Sustainability Report

- Delivering Sustainable Solutions...
 Yesterday. Today. Tomorrow.
- Report content reflects TVA's unique sustainability story
- Aligned with Global Reporting Initiative, Sustainability Accounting Standards Board and UN Sustainable Development goals





View the full Sustainability Report online at: **tva.com/sustainability**





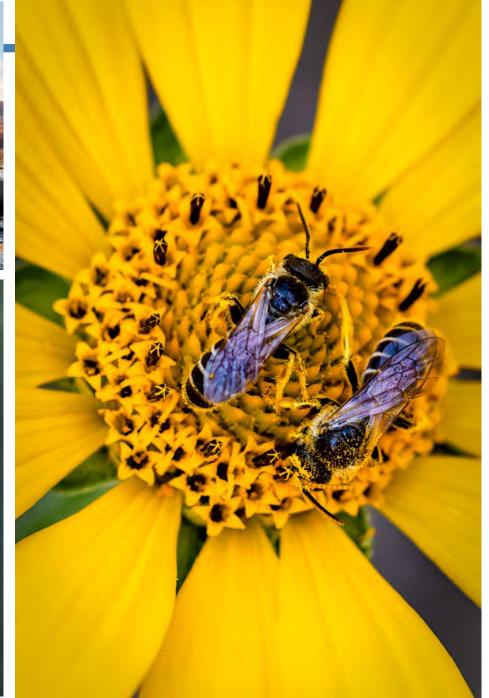




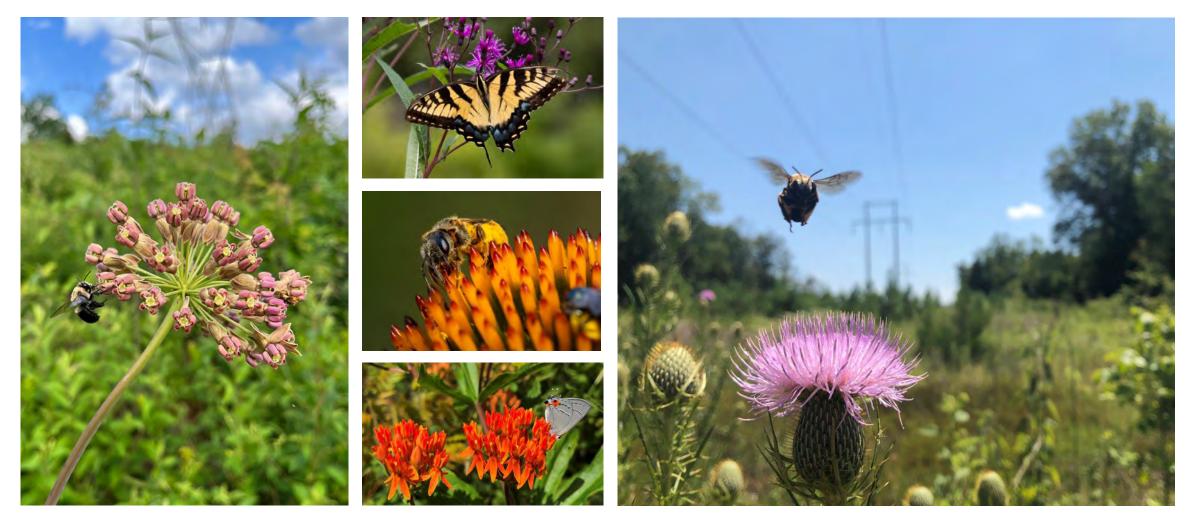








Pollinators





Building the Energy System of the Future

AFFORDABLE RELIABLE RESILIENT CLEAN



National Leader in Carbon Reduction



Affordable, Reliable, Resilient,

What is a Pathways Study?

A Pathways Study uses scenario-based analysis to compare several possible visions of the future to help determine the timing, scale, and effects of achieving greenhouse gas targets.

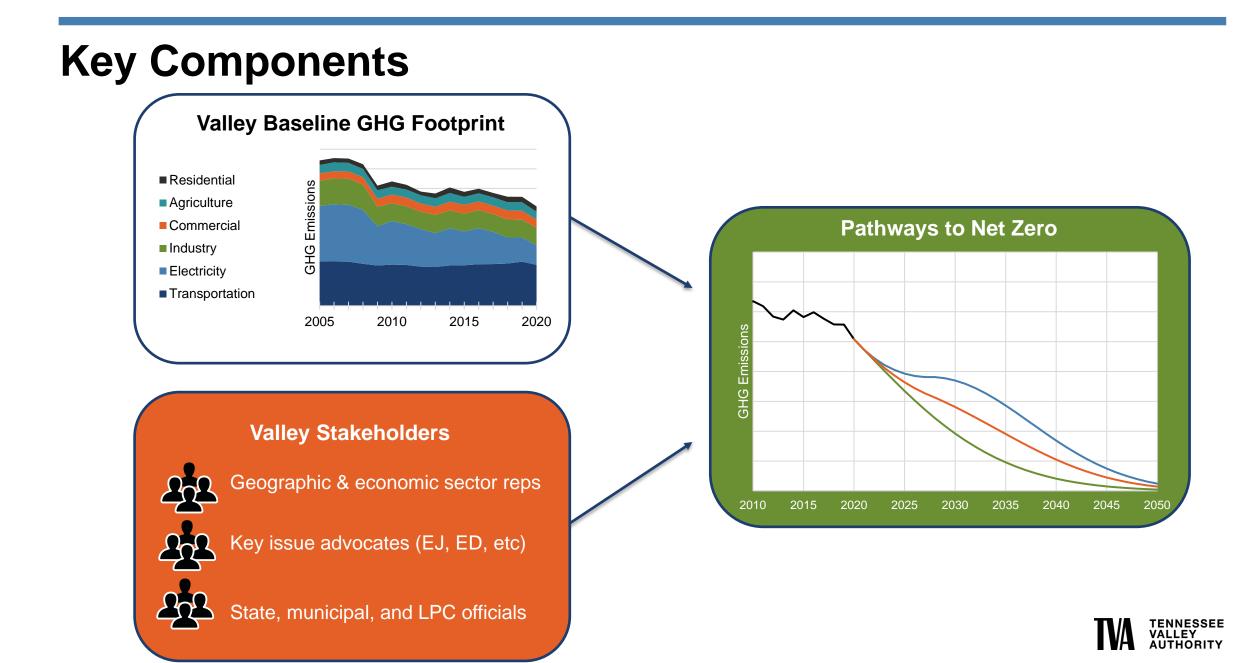
What paths are most feasible for the Valley to get to net zero by 2050?

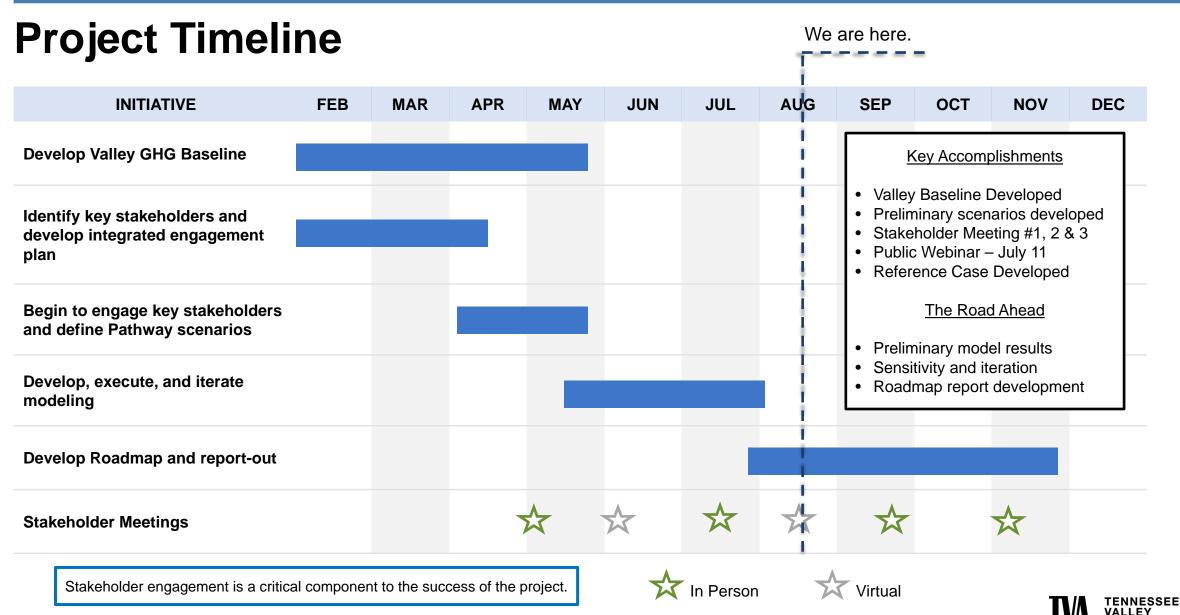


What impacts will these paths have on the Valley as a whole?









AUTHORITY

TVA Sustainability Program





The Sustainability Program provides a structure for TVA to engage with stakeholders to determine sustainability priorities; to establish sustainability goals to support the TVA mission; to guide program and project development to further sustainability performance in these focus areas; and to measure and report TVA's sustainability performance.



Sustainability Focus Areas and Priorities

TVA's sustainability work is categorized into four focus areas. The sustainability priorities aligned with each focus area help TVA focus our sustainability efforts.

Economic Impact	Environment	Social	Governance
 Energy Affordability Reliability and Resiliency Jobs Created and Retained Flood and Drought Management Energy Innovations Renewable Energy Investor Relations Supplier Partners 	 Habitat and Biodiversity Protection Climate Change and Resilience Air Quality Water Quality and Availability Waste Management Cultural Resource Management 	 Environmental Justice Health and Safety Community Vitality and Engagement Reservoir and Stewardship Benefits Local Power Company Partnerships Diversity and Inclusion Labor Relations Recruitment, Development and Retention Skilled Workforce Availability 	 Transparency Board and Executive Diversity Systemic Risk Management Ethics Cyber and Physical Security Sustainable Financing Framework

Sustainability Priorities Assessment Matrix Examples

Results from workshop and additional assessment efforts will be used to develop heat maps to better visualize priorities and areas of opportunities.



Priority Assessment Results in Action

nforms Strategy

- Identifies priorities that are most important to your company's long-term value creation
- Provides perspective from internal and external stakeholders



Disclosure

-ocuses

- Aligns disclosure efforts with global standards
- Provides structure and organization
- Gives foundation for what's "in" and "out"



Advice Questions:

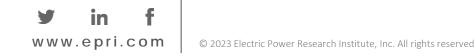
- 1. Are there any stewardship priorities where you believe the risks are increasing substantially over the next 5 years?
- 2. Are there any other inputs or information that you'd like to share with TVA regarding deciding on and ranking our work on these sustainability priorities?



Sustainability Priorities Feedback Workshop

Regional Resource Stewardship Council

August 21, 2023





Agenda

Project Overview

• Norman Shafto, EPRI

Priorities Discussion

• Brenda Brickhouse, EPRI







Nonprofit

Chartered to serve the public benefit, with guidance from an independent advisory council.

Thought Leadership

Systematically and imaginatively looking ahead to identify issues, technology gaps, and broader needs that can be addressed by the electricity sector.

Independent

Objective, scientific research leading to progress in reliability, efficiency, affordability, health, safety, and the environment.

Scientific and Industry Expertise

Provide expertise in technical disciplines that bring answers and solutions to electricity generation, transmission, distribution, and end use.

S Collaborative Value

Bring together our members and diverse scientific and technical sectors to shape and drive research and development in the electricity sector.



Industry Sustainability Priorities Research Foundation

Initial 2013 Report

- "Material Sustainability Issues for the North American Electric Power Industry"
- 15 material sustainability issues



Refreshed 2017 Report

- "Priority Sustainability Issues for the North American Electric Power Industry"
- 20 sustainability priority issues

Refreshed 2021 Report

- "Sustainability Priorities for the North American Electric Power Industry"
- 20 sustainability priorities
- 3 emerging priorities
- 3 management elements

Air Emissions	Assets & Operations	Business Model	Climate Change
Community Vitality	Customer Relations	Cyber & Physical Security	Energy Reliability & Resiliency
Energy Affordability	Greenhouse Gas Emissions	Habitat & Biodiversity	Job Satisfaction
Labor Relations	Public Policy Relations	Safety & Health	Skilled Workforce Availability
Supply Chain	Waste	Water	Workforce Diversi Inclusion & Equa Opportunity

Air Quality	Climate Change	Community Vitality	Customer Engagement
Cyber and Physical	Diversity, Equity,	Energy Affordability	Energy Portfolio
Security	and Inclusion		Diversity
Energy Reliability	Financial Health	Greenhouse	Habitat and
and Resiliency		Gas Emissions	Biodiversity
Low Carbon	Public Policy	Safety &	Stakeholder
Transition	Engagement	Health	Relationships
Supply Chain	Waste	Water	Workforce Development

2023 Sustainability Priorities Refresh Currently In Progress

Sustainability Priorities Assessment Overview





Objectives: validate and refine priorities

Is this a <u>sustainability priority</u> for TVA and its stakeholders?

- Focus on priorities, not strategies
- Provide feedback on how priorities can be refined, expanded, or consolidated
- Think about what you think is important to communicate to your internal and external stakeholders

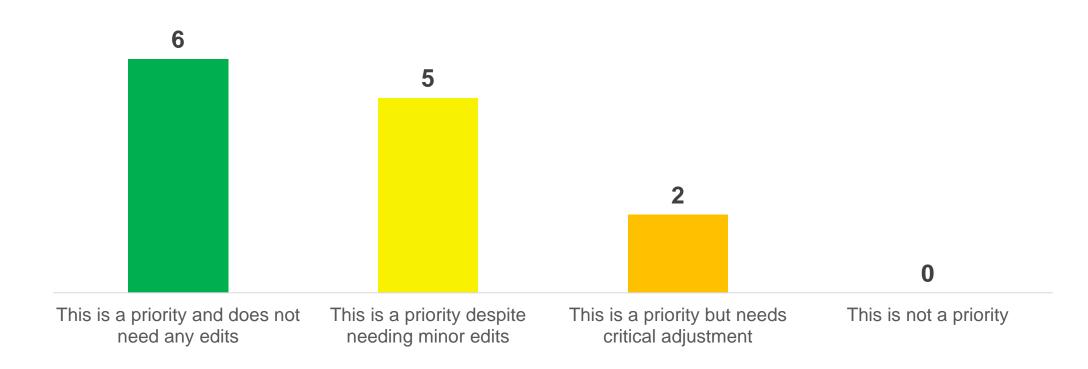
Key

- This is a priority, and does not need any edits
 - This is a priority, but needs edits
- This is a priority, but is captured under another priority

This is not a priority

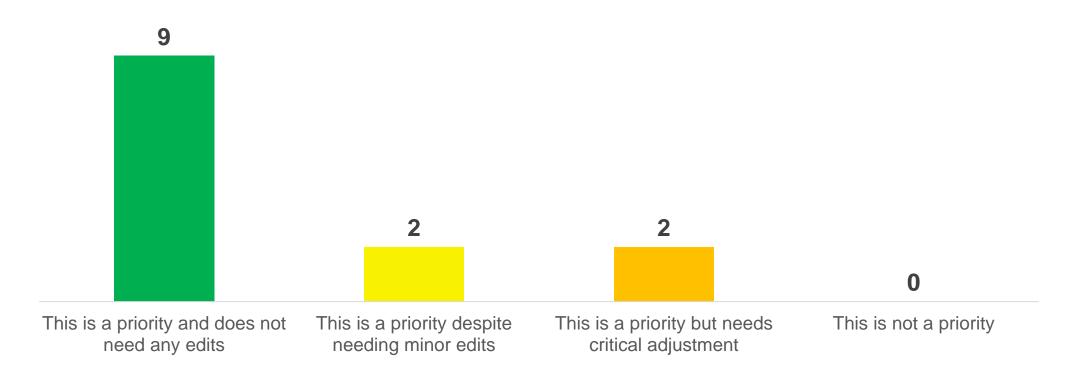
Feedback from this workshop and stakeholder interviews will inform priority refinement

Clean Energy Reduce carbon emissions of company operations and across the economy



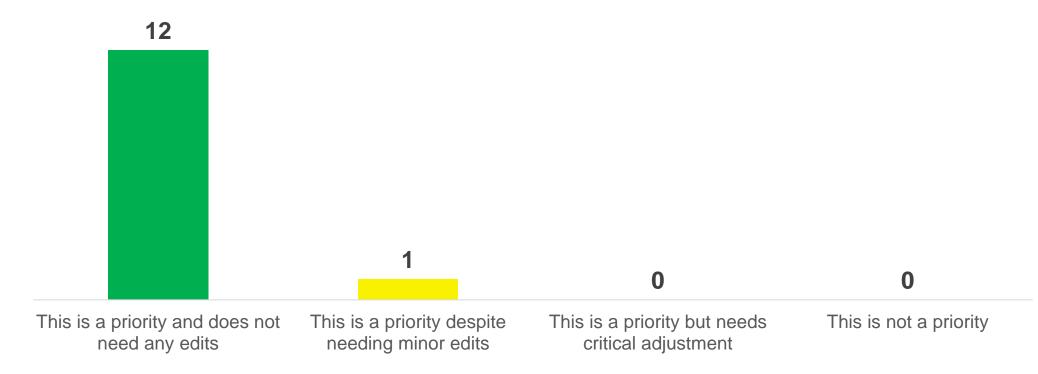


Climate Change Adaptation Operational and planning decisions to mitigate and prepare for potential risks related to a changing climate



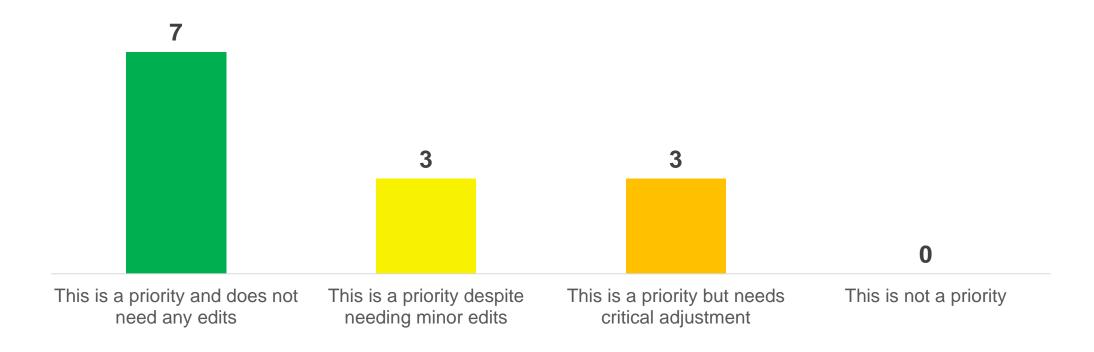


Energy Reliability and Resilience Consistent delivery of energy to customers and rapid recovery from extreme weather and other disruptive events



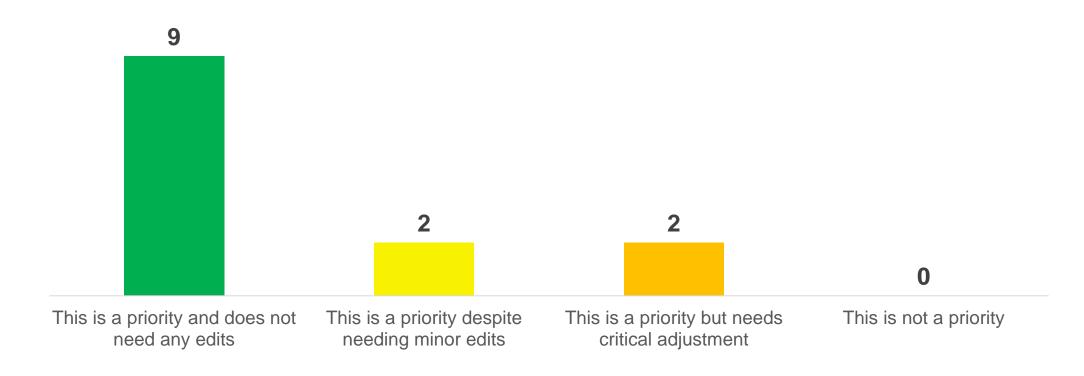


Community and Stakeholder Engagement Support of and a just transition of communities served or impacted by company operations, and intentional, meaningful, and transparent interactions and involvement



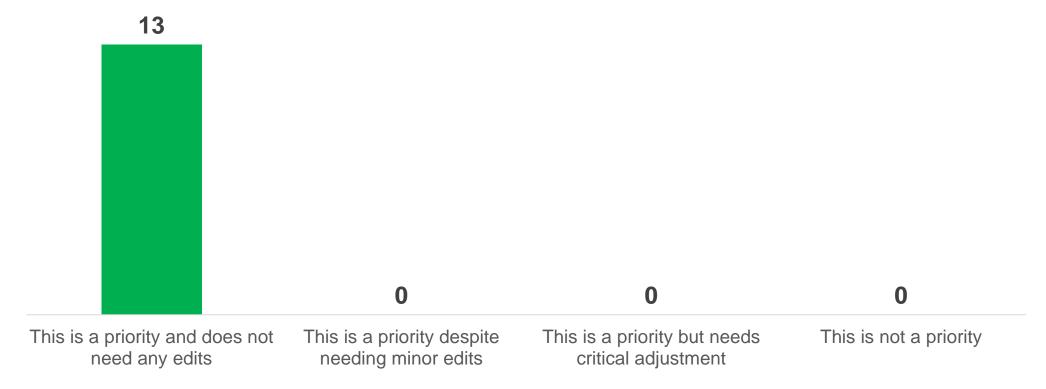


Customer Engagement and Partnerships Interaction with customers through evolving services, technologies, communication, education, and community partnerships



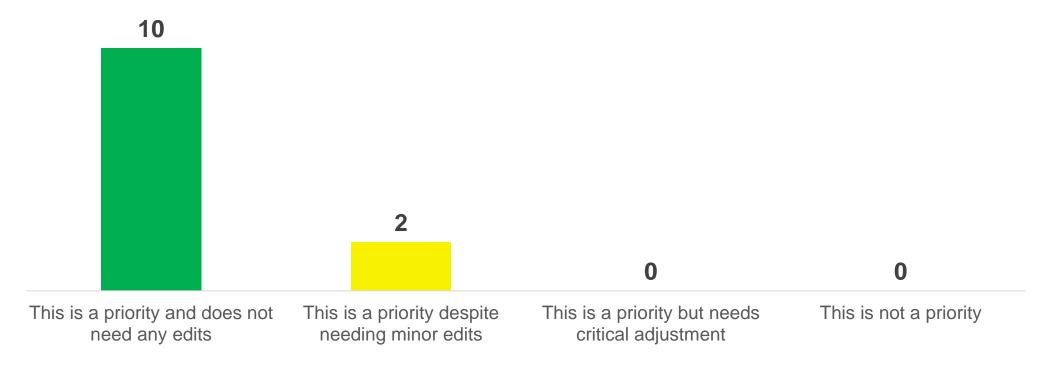


Energy Access and Affordability Maintain affordable energy costs and availability of energy services for all customers



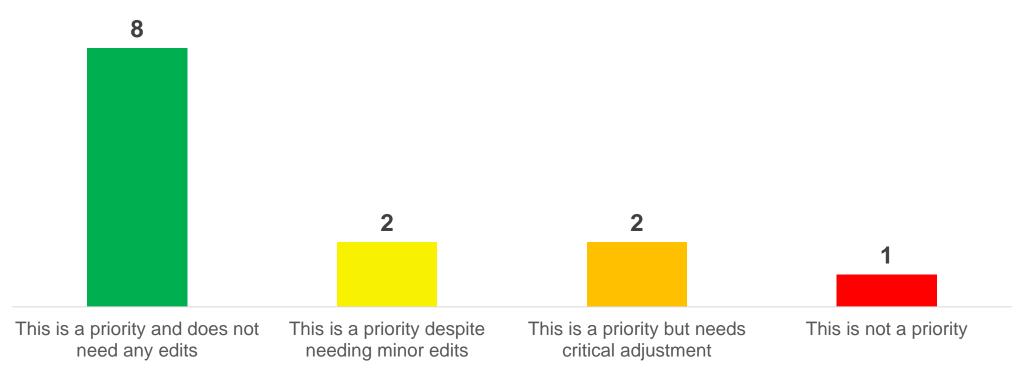


Valley Economy Strategies and actions to foster investment, job growth, and thriving communities in the region



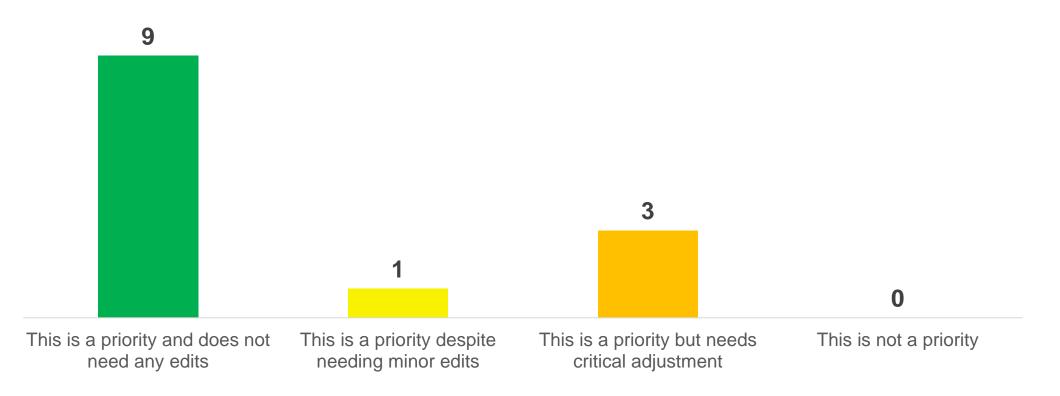


Supply Chain Economic, environmental, and social performance of suppliers, and resilience to disruptive events



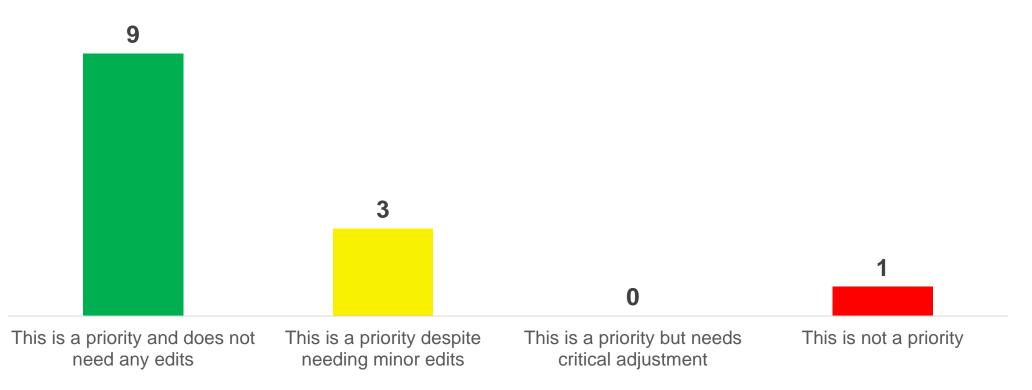


Diversity, Equity, and Inclusion A company culture that ensures fair treatment and opportunity for all



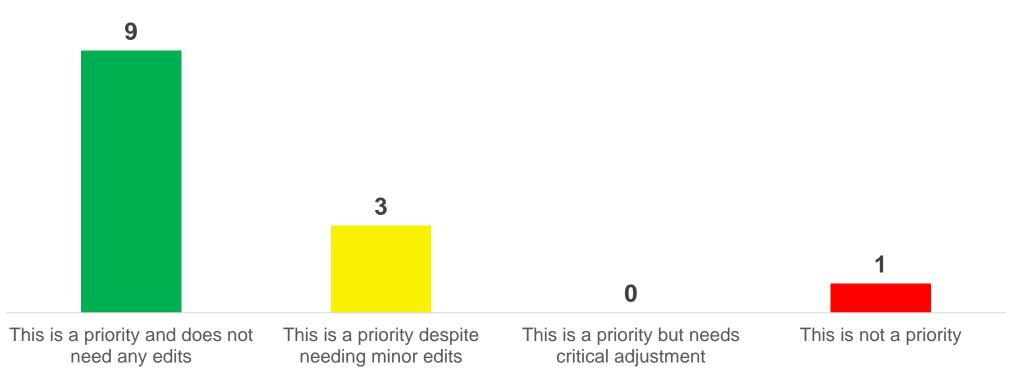


Workforce Development Attracting, hiring, training, engaging, and planning for appropriately skilled and experienced workers



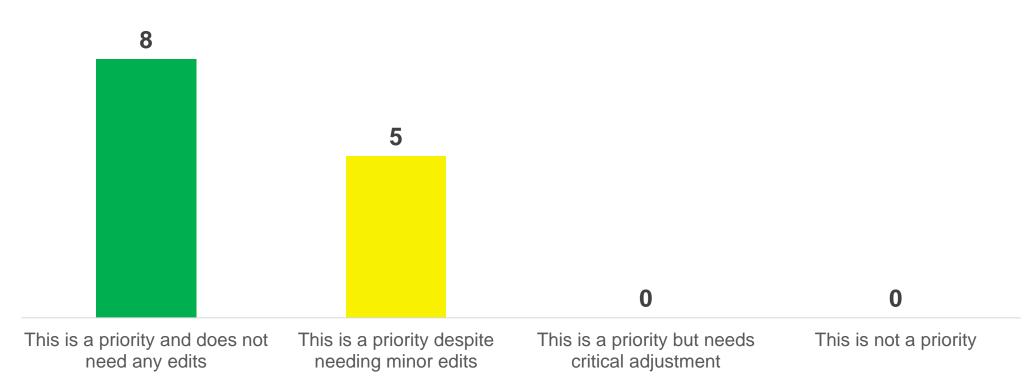


Innovation Supporting (Facilitating) and promoting new technologies, processes, and business and market models



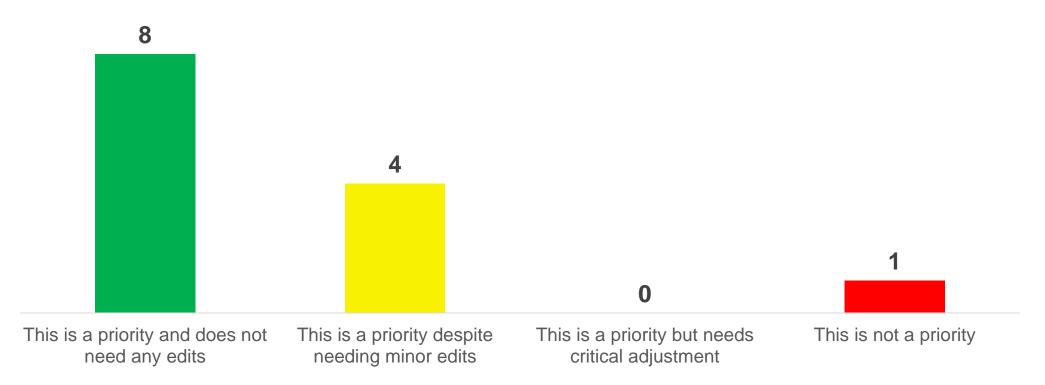


Environmental Management and Stewardship Monitor and implement actions to improve air quality, waste management, land management and stewardship benefits



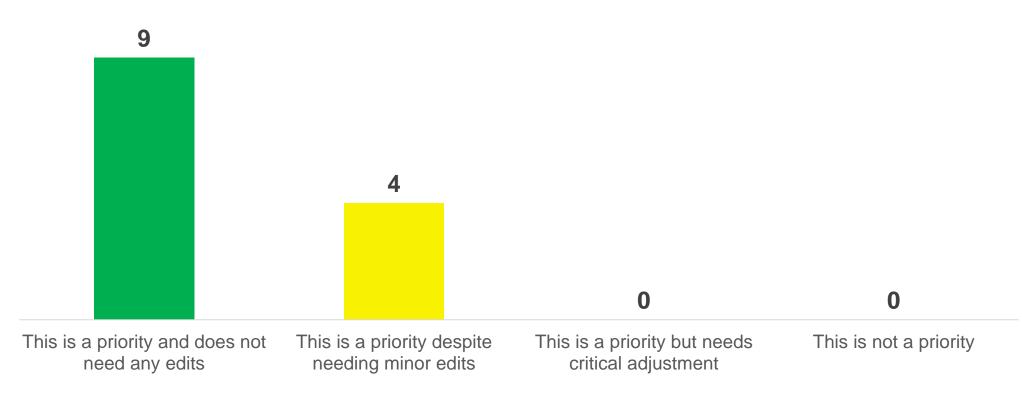


Habitat and Biodiversity Protect and enhance biodiversity and related habitats within the region



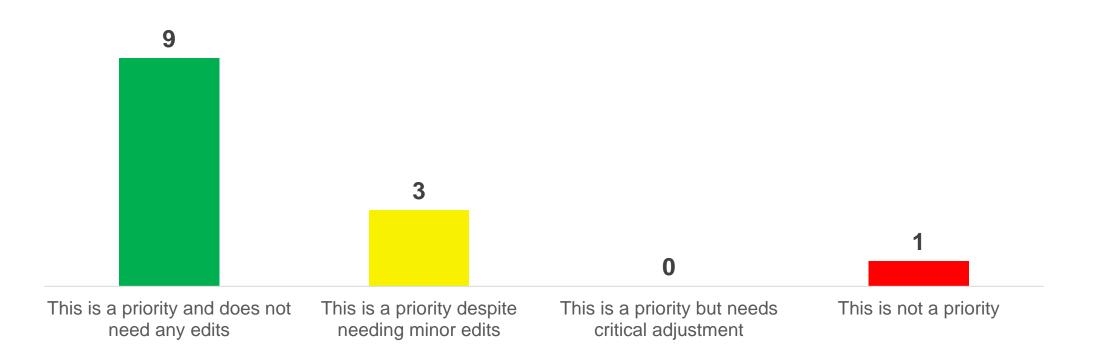


Water Management Operational actions and planning decisions to address water quality, water supply, aquatic systems, floods and droughts



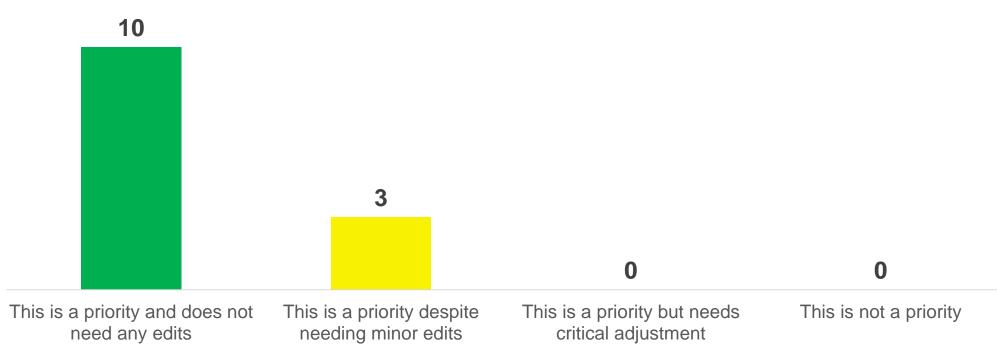


Cultural Resource Management Protect and preserve archaeological and historical resources through management practices, collaboration, consultation, and education



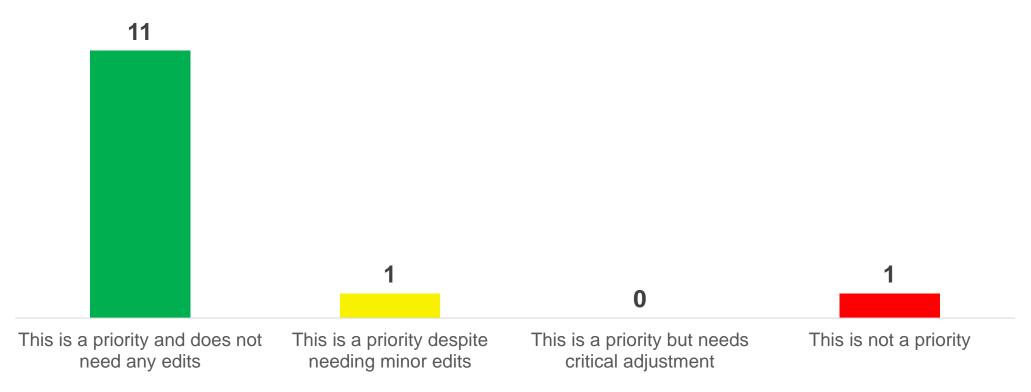


Equity and Environmental Justice Fair treatment and meaningful involvement regarding how energy services, environmental benefits, and related impacts are distributed throughout the communities served or impacted by company operations



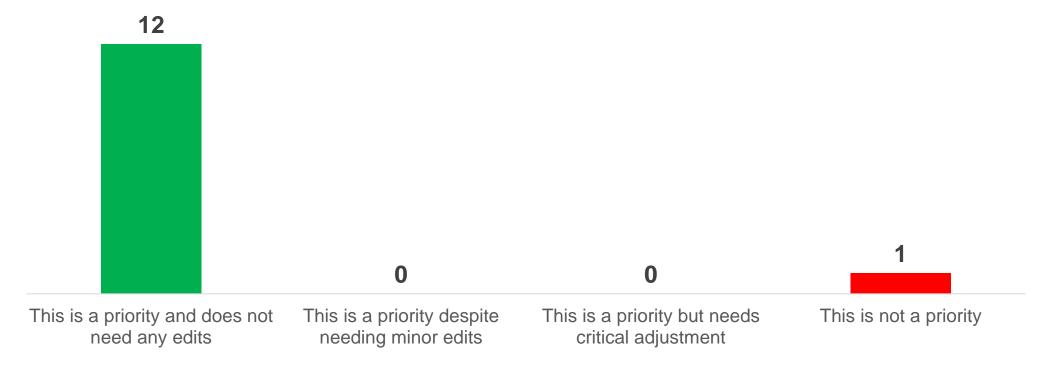


Health and Safety Health, safety, and well-being of employees, contractors, and the public with respect to interaction with owned or managed assets



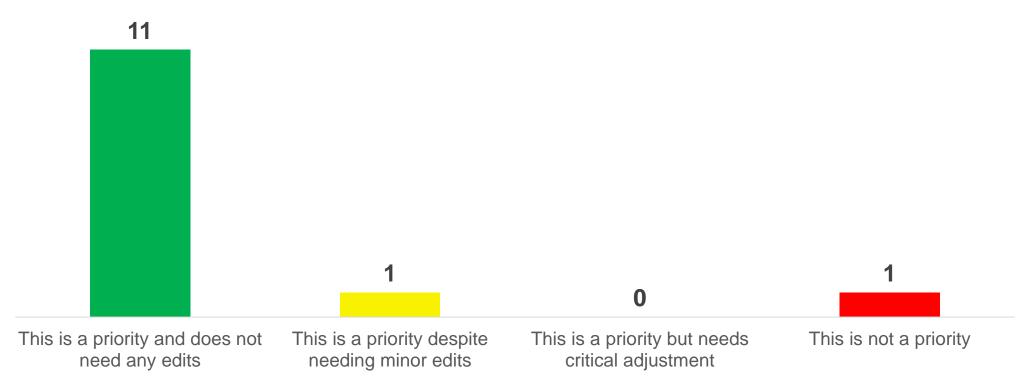


Governance Leadership and systems to foster ethics, accountability, and effectiveness of activities, risk mitigation, and compliance



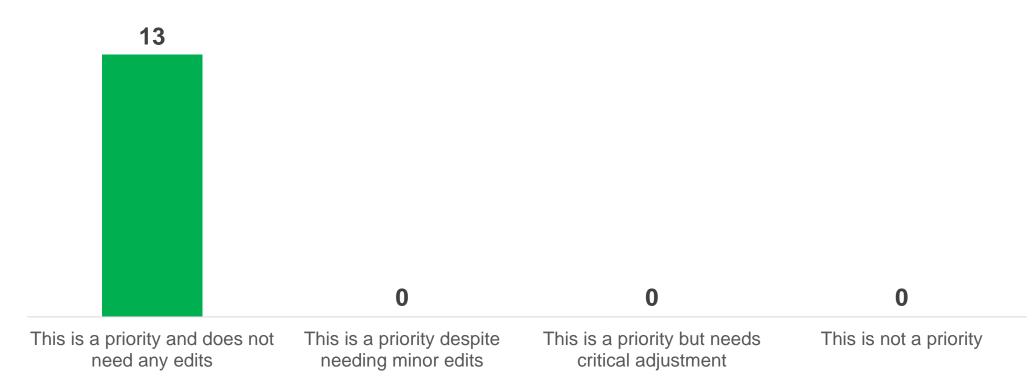


Financial Health Strategies and practices that support financial performance and promote sustainable value creation





Cyber and Physical Security Protection of customer and company information, facilities, systems, and infrastructure from digital and physical threats





Additional Questions and Next Steps

Final questions or feedback?

Priorities not addressed?

Next Steps

- EPRI will conduct stakeholder interviews and hold an internal TVA workshop to gather additional feedback
- TVA's list of sustainability priorities will be refined based on feedback
- A prioritization survey will be sent to TVA stakeholders to gauge the importance of each priority relative to each other



Advice Questions:

- 1. Are there any stewardship priorities where you believe the risks are increasing substantially over the next 5 years?
- 2. Are there any other inputs or information that you'd like to share with TVA regarding deciding on and ranking our work on these sustainability priorities?



BREAK



Public Comment



This is a listening session; responses are typically not provided



Thank You



Closing Remarks



Adjourn

Day 2 RRSC Meeting Begins at 12:30 pm Central





Regional Resource Stewardship Council

August 22, 2023 – Day 2



Welcome

The RRSC Meeting will begin at 12:30 pm Central

Welcome



Day 1 Recap



RRSC Meeting – Day 2

Agenda

	August 22, 2023 Guntersville, AL All times are CT
12:30 pm	Welcome –Designated Federal Officer Melanie Farrell RRSC Chair Tom Littlepage
12:35	Day 1 RecapFacilitator, Jo Anne Lavender
	Day 2 Agenda Review
12:40	Finalize Advice Statement
2:00	Break
2:15	Natural Resources Update – Anthony Summit, Sr. Mgr, Nat Res & Rec Mgt River Management Update – James Everett, GM, River Management
2:45-4:45	Cultural Compliance Presentations
2:45	Cultural Resources and TVA, Melanie Farrell, VP, External Strategy
2:55	Respecting Tribal Sovereignty and The Importance of Government-to-Government Relationships RaeLynn Butler, Manager, Tribal and Cultural Preservation Department, The Muscogee (Creek) Nation
3:10	TVA's Tribal Relations Program, Erin Dunsmore, Sr Specialist, Archaeology
3:25	Break

Agenda

RRSC Meeting – Day 2 Page 2 August 22, 2023 Guntersville, AL All times are CT

Cultural Compliance Presentations (cont.)

- 3:40 **NHPA Preservation Program,** Erin Dunsmore, Sr Specialist, Archaeology
- 3:55 Archaeological Site Monitoring and Protection Erin Dunsmore, Sr Specialist, Archaeology
- 4:05 **ARPA Enforcement,** Mike Angst, Archaeologist
- 4:15 **NAGPRA,** Meg Cook, Sr Specialist, Archaeology
- 4:25 Wrap Up, RaeLynn Butler, Manager, Tribal and Cultural Preservation Department, The Muscogee (Creek) Nation
 - 4:40 Wrap Up & Questions, Melanie Ferrall, VP, External Strategy & Reg Oversight

4:55 pm Next Meetings Adjourn



FINALIZE ADVICE



Advice Questions:

- 1. Are there any stewardship priorities where you believe the risks are increasing substantially over the next 5 years?
- 2. Are there any other inputs or information that you'd like to share with TVA regarding deciding on and ranking our work on these sustainability priorities?



BREAK





Natural Resources and River Management Updates

August 22, 2023

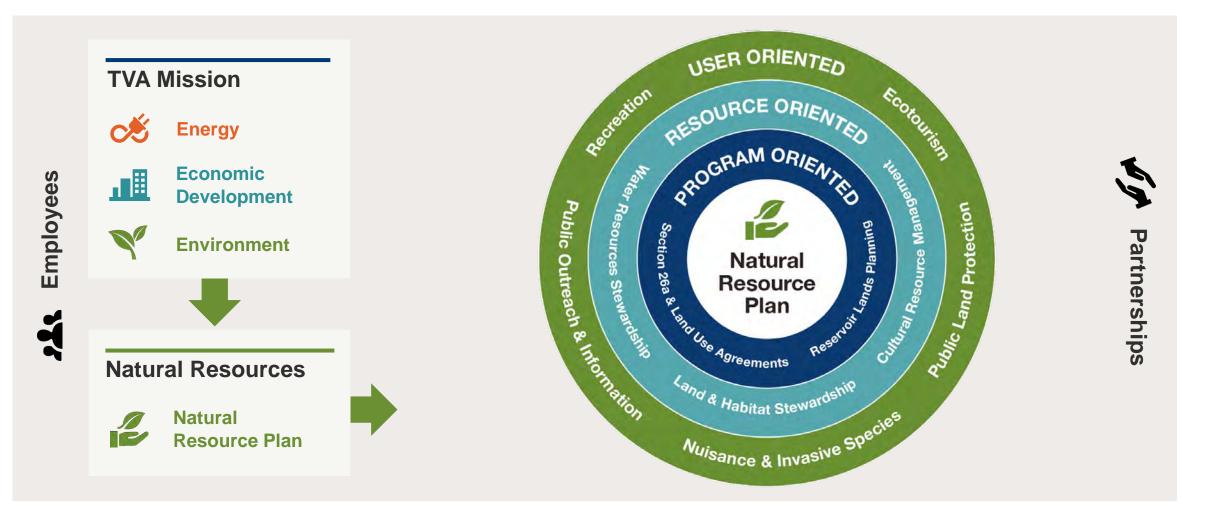
Natural Resources Update

Anthony Summitt

Senior Manager, Natural Resources & Recreation Management



TVA Natural Resources





Current Highlights

Fiscal Year 2023, Third Quarter

- Paint Rock Watershed Collaborative Conservation Efforts
- Joint Agency Wildfire Training Exercise
- National Pollinator Week Events

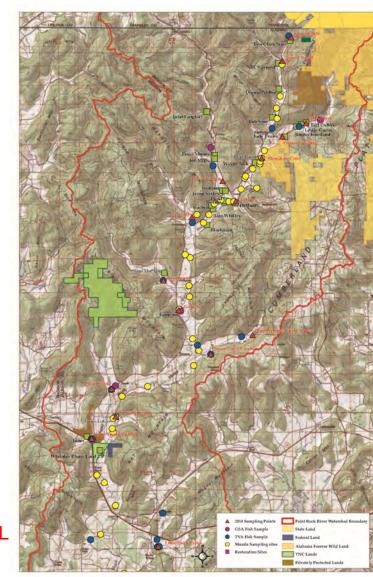




Paint Rock Watershed Jackson, AL

Biodiversity Hotspot

- 98 fish species and about 59 mussel species
- 3 endemic species: 2 mussels (Pale lilliput, Alabama lampshell) and 1 fish (Palzone shiner)
- 3 imperiled fish: Sawfin shiner, Blotchside logperch, and Snail darter



Water Resources Stewardship





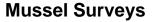
Guntersville, AL

Paint Rock – Stream Assessments

Assessed fish communities at 15 different locations, conducted mussel surveys at 37 sites, and walked/floated over 80 miles of stream to identify barriers and eroding streambanks

Fish Community Monitoring









Paint Rock – Aquatic Barrier Removal

Replaced a low-water bridge on Estill Fork to provide safe access to the community and restored stream connectivity for aquatic life

Estill Fork Bridge (Before)









Paint Rock – Streambank Stabilization

Restoring 550 linear feet of streambank utilizing bank grading, toe protection, erosion matting, and riparian plantings of native seedlings and grasses on 0.3 acres to help secure the project's streambank and footprint

Pre-restoration



Ongoing restoration





Paint Rock - Accomplishments

- Implemented over 42 conservation projects
- Established approximately 8 miles of riparian buffer
- Planted 35,000 hardwood trees
- Acquired 30,000 acres of conservation lands
- Reintroduced over 1,000 freshwater mussels





Wildfire Aerial Field Training Exercise





Land and Habitat Stewardship



Wildfire Aerial Field Training Exercise





Wildfire Aerial Field Training Exercise







Land and Habitat Stewardship

Nuisance and Invasive Species Management

Public Outreach and Information

Public Land Protection

















River Management Update

James Everett

General Manager, River Management



Integrated Tennessee River System



Navigation



Flood Damage Reduction



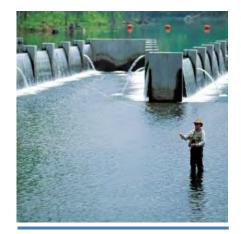
Power Generation



Water Supply



Recreation

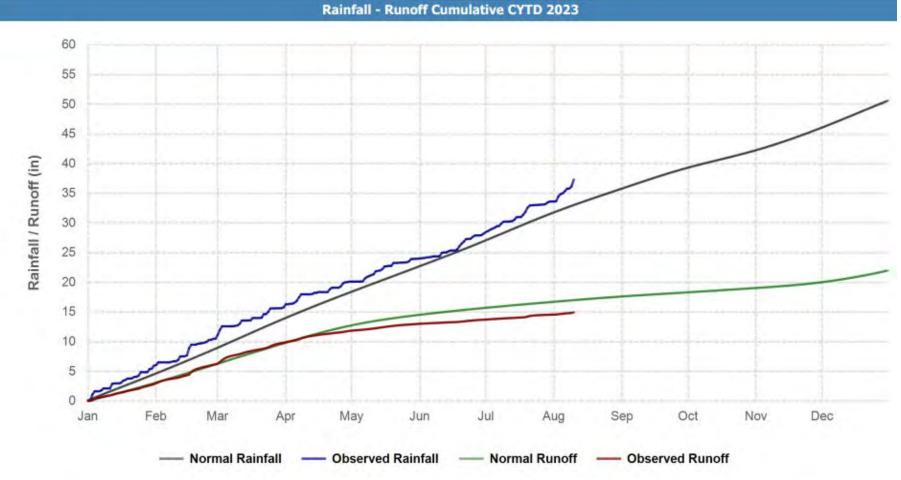


Water Quality



2023 Rainfall and Runoff

113% of normal rainfall and 88% of normal runoff through August 10, 2023



TVA Restricted Information - Deliberative and Pre-Decisional Privileged

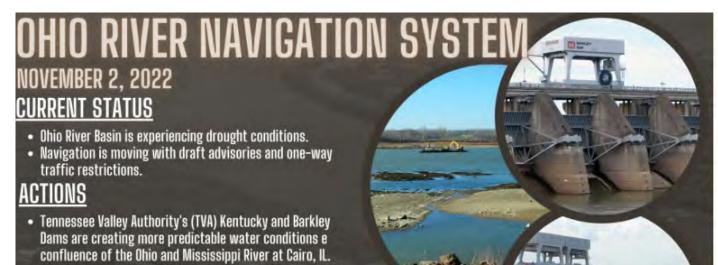


Navigation – Regional and National Impact

Releases from reservoirs support the nations inland waterway transportation system through efficient commodity movement

Supported continued navigation during the 2012, Fall 2022 and Summer 2023 lowwater events on the Ohio and Mississippi Rivers

 The Tennessee and Cumberland Rivers provided more than one-third of the flow down the Mississippi River with only 5 percent of the drainage area



 The Cairo, IL river gage will remain between 8ft and 9ft for the next two weeks.

<u>WAY FORWARD</u>

- Emergency dredging operations are being conducted below Olmsted, at the Ohio River Mile 967-976.
- USACE is monitoring navigation conditions throughout the Ohio-Mississippi River.



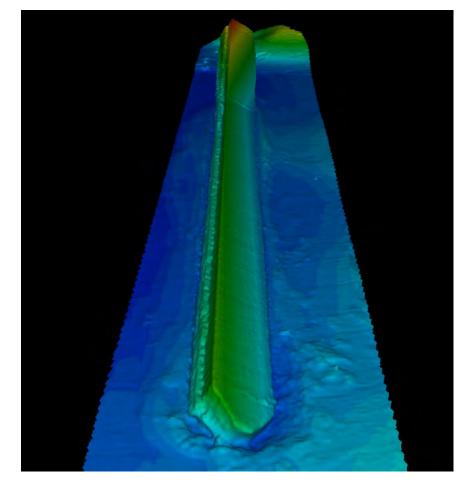
Navigation – Wilson Lock Guard Wall

Continue to support lock operations through modified lockage procedures, special spillway flow operations, and helper boats

Currently progressing through the project and planning phase for a temporary solution based on the U.S. Army Corps of Engineers' (USACE) Engineer Research and Development Center (ERDC) 2-D model analysis which uses a system of barges as a temporary wall

Working with USACE and other partners to explore funding sources for the guard wall permanent solution

Communicating with the navigation industry and congressional stakeholders on existing lock restriction impacts and the path forward





Water Quality – Floating Aquatic Vegetation

Floating aquatic vegetation (FAV) remains an operational consideration for TVA

 Identified and mitigated risk through summer readiness as plant fouling potential at Browns Ferry Nuclear, Wheeler Hydro, and Guntersville Hydro plants remains a risk

TVA Response

- Conduct field observations by helicopter or airboat
- Provide bi-weekly report to internal stakeholders
- Operate harvester boats as needed
- Monitoring cameras, sonar, and water quality platforms in Wheeler Reservoir to monitor FAV movement
- Forecasting system developed and undergoing operational testing and calibration





Power Generation & Winter Storm Elliott

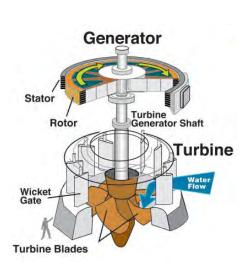
3,538 MW Conventional Generating Capacity (109 Units)

1,653 MW Pumped-storage Capacity (4 units)

Coordinated significant Hydro Generation support during the extreme weather event

- Hydro System provided increased flows in June to support the power system
- Pre-storm strategy, real-time response and coordinated increased releases with stakeholders

Total Hydro Value realized in CY2022 was over \$923 million or almost double a normal year









Outreach

TA Tennessee Valley Authority @ @TVAnews

Regular maintenance is essential to keep our river navigation locks operating! The @NashvilleCorps, which operates and maintains the locks at our dams, finished some major work at Watts Bar Dam. The crew installed armor plating to prevent concrete loss.



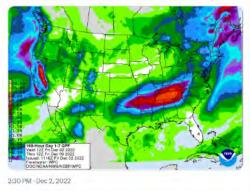
1:05 PM - Feb 2, 2023 - 3,690 Views

Tennessee Valley Authority 📀 @TVAnews - Jan 20 Have you noticed some of our dams on the Tennessee River are spilling? We are releasing water using all available generators, plus spilling at six of the nine dams on the river because of recent rain events. About 750,000 gallons per second is being released at Kentucky Dam.





Heavy rain is forecasted next week, and we have increased releases along the mainstem Tennessee River to move water. Nickajack, Guntersville, Pickwick, and Kentucky Dams are spilling but will remain within operating ranges. Tributaries lakes will also be used to store water.



Conducted numerous public and stakeholder briefings throughout the year including virtual and in-person River Forecast Center (RFC) tours

TVA Lake Info is the most clicked on link on TVA.com and the LakeInfo app saw a Bassmaster's peak of new users at 39,000

Hosted all 9 TVA Board Members for RFC tours

Thus far in 2023, hosted 38 tours and briefings that reached nearly 600 stakeholders



River Management Continuous Improvement

Utilize industry standard software and lead the way in technological innovation via advanced modeling and systems that standardize data management, modeling, and visualization across a broad worldwide user group of water management agencies and utilities

Utilize water management maturity matrix to evaluate current maturity level and prioritize improvement opportunities to reach desired state

Engage with internal and external stakeholder groups, share lessons learned, and cultivate collaborative relationships

Lead reviews of extreme events, such as Waverly, Tennessee flood, and implement lessons learned

Solicit and implement continuous improvement ideas from the workforce through the River and Resources Stewardship Continuous Improvement Peer Team





Then

Now



Jeff Lyash with Tennessee Valley Farmers





Making the Tennessee Valley a **Better Place** to Live, Work, and Play

BREAK



Cultural Resources and TVA

Melanie Farrell, Vice President, External Strategy and Oversight

August 22, 2023



Respecting Tribal Sovereignty and the Importance of Government-to-Government Relationships

RaeLynn Butler, Manager, Historic and Cultural Preservation Department, The Muscogee (Creek) Nation



Tribal Relations

Erin Dunsmore, Senior Specialist, Cultural Resource Management & Policy



Government to Government Relationship

The United States government has a unique legal relationship with Federally Recognized Indian Tribes ("Tribes") set forth in the Constitution of the United States, treaties, statutes, and court decisions. As a federal agency, the Tennessee Valley Authority (TVA) is committed to work with Tribes within the framework of a government-to-government relationship, respecting tribal sovereignty and self-determination.

TVA's Tribal Consultation Official, Melanie Farrell, has principal responsibilities for consulting with Tribal Governments.



What is the federal trust responsibility?

The **federal Indian trust responsibility** is a legal obligation under which the United States "has charged itself with <u>moral obligations</u> of the highest responsibility and trust" toward Indian tribes (*Seminole Nation v. United States*, 1942).



TVA takes this trust responsibility seriously and strives to be a leader in Tribal Partnerships.



The relationship between TVA and Tribes should be treated as a partnership. TVA provides partnership and engagement opportunities to strengthen relationships, and to encourage meaningful cultural interaction between Native Americans, TVA staff, and the public.



Ancestral Tribes of Tennessee Valley

- 1. The Muscogee (Creek) Nation
- 2. Alabama-Coushatta Tribe of Texas
- 3. Alabama-Quassarte Tribal Town
- 4. Coushatta Tribe of Louisiana
- 5. Kialegee Tribal Town
- 6. Thlopthlocco Tribal Town
- 7. Poarch Band of Creek Indians
- 8. Seminole Nation of Oklahoma
- 9. The Chickasaw Nation
- 10. Choctaw Nation of Oklahoma
- 11. Jena Band of Choctaw Indians
- 12. Mississippi Band of Choctaw Indians
- 13. Cherokee Nation
- 14. Eastern Band of Cherokee Indians
- 15. United Keetoowah Band of Cherokee Indians
- 16. Eastern Shawnee Tribe
- 17. Shawnee Tribe
- 18. Absentee Shawnee Tribe

- 19. Monacan Indian Nation
- 20. Delaware Nation
- 21. Osage Nation
- 22. Quapaw Tribe of Indians
- 23. Peoria Tribe of Indians





Legal Authorities

Antiquities Act of 1906

National Environmental Policy Act of 1969

American Indian Religious Freedom Act of 1978 (AIRFA)

Archaeological Resources Protection Act of 1979 (ARPA)

Native American Graves Protection and Repatriation Act of 1990 (NAGPRA)

National Historic Preservation Act 1966, as Amended (NHPA) Executive Order 13007 - Indian Sacred Sites (1996) Executive Order 13175 – Consultation and Coordination with Indian Tribal Governments (2000)

Executive Memoranda:

- "Government-to-Government Relations with Native American Tribal Governments (1994)
- Tribal Consultation (2009)
- Tribal Consultation and Strengthening Nation-to-Nation Relationships (2021)
- Uniform Standards for Consultation (2022)







Focusing on Tribal Needs/Concerns



NAGPRA

Transferring control and custody of Native American ancestors to Tribes Ensuring Ancestors are protected on TVA lands Inadvertent Discovery of Ancestors



ARPA

Identification of Important Native American archaeological resources Monitoring and Protection from Looting, erosion and climate change Reduce trafficking of Native American objects

Outreach in local communities on the importance of site protection



NHPA

Consultation on TVA Undertakings Identification of Significant Native American Historic Properties Evaluate and Nominate historic properties to the National Register of Historic Places



Other Priorities

Reinterment of Native American Ancestors Sacred Sites Protection of Natural Resources Tribal Engagement Tribal Partnerships & Outreach



Reinterment

TVA is committed to providing locations for the reburial of Native American Ancestors and their belongings.

Most of these ancestors were removed prior to the construction of TVA dams.

Some have been removed as a result of illegal desecration or environmental impacts.

TVA Supports:

- Individual reinterments
- Regional reinterment locations





Tribal Partnership Projects

TVA partners with Tribes on a number of different projects, including:

- Removal Route Project Compiling historic records and ground truthing actual route locations in the TVA Power Service Area
- Stone Features Management Project

 Developed a management plan and documentation form
- *Tribal Cultural History Project* Work with individual Tribes to record accurate and inclusive tribal histories for improved archaeological reporting





Outreach & Engagement

- Tribal Homeland Visits
- TVA Tribal Engagement Initiative
- Public Outreach
- Volunteer Archaeological Stewardship Training
- Archaeological Field School Partnership
- Native Plant Partnership





NHPA Preservation Program and Section 106

Erin Dunsmore, Senior Specialist, Cultural Resource Management & Policy



National Historic Preservation Act (NHPA)

"The spirit and direction of the Nation are founded upon and reflected in its historic heritage" and these 'cultural foundations should be preserved as a living part of our community life and development in order to give a sense of orientation to the American people;"

"the preservation of this irreplaceable heritage is in the public interest.."





NHPA Requirements for Federal Agencies

Establish Preservation Program (Section 110)

- Identify, evaluate and nominate historic properties to the National Register of Historic Places
- Coordinate preservation activities with State Historic Preservation Officers and Federally Recognized Indian Tribes

Designate Federal Preservation Officer

Minimize impacts to National Historic Landmarks

Consider effects of undertakings on historic properties (Section 106)



Test excavations conducted to evaluate significance of archaeological site.



Section 110

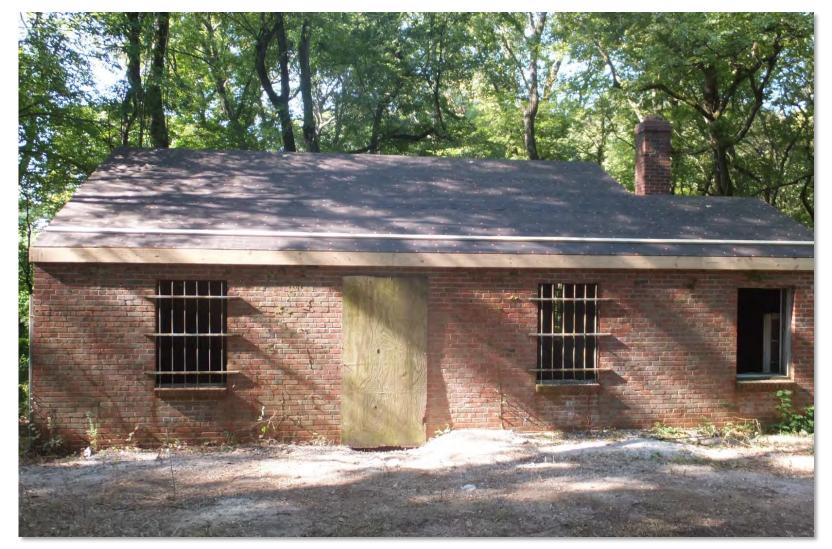
Maintain inventory of historic properties

- Archaeological Sites
- Architectural Resources
- Historic Items

Cultural Resource Management System

Improve Section 106 through preservation planning

Evaluate and nominate historic properties to the National Register of Historic Places (NRHP)



insectary building (used to conduct malaria research) in Muscle Shoals being mothballed until identified use.



National Register of Historic Places

- Official list of the Nation's historic places worthy of preservation
- Must have integrity of location, design, setting, materials, workmanship, feeling or association.
- TVA has archaeological sites, historic buildings, and dams listed on the NRHP
- Wilson Dam is a National Historic Landmark



Norris Dam is listed on the National Register of Historic Places

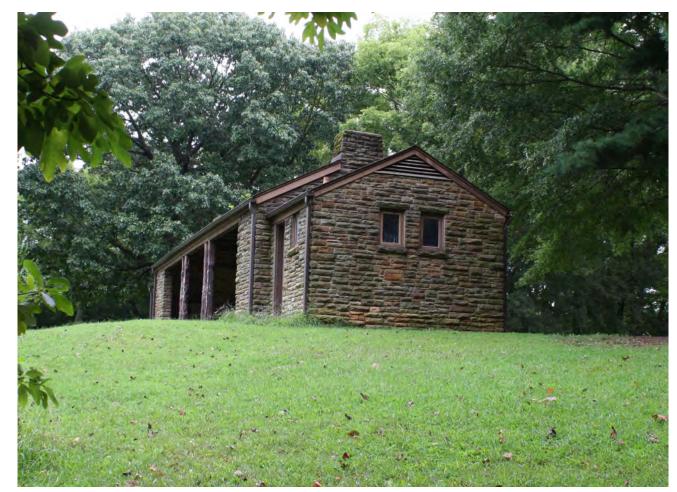


Heritage Tourism and Historic Properties

- Executive Order 13287 Reaffirms federal agency's role in protection, enhancement and use of historic properties outlined in NHPA.
- Heritage Tourism is the practice of attracting and accommodating visitors to a place based on the location's history, landscape, and culture.

Examples of Heritage Tourism:

- Historic Dam Tours
- Virtual Dam Tours
- Muscle Shoals Reservation-CCC
 Trails and Park



CCC Pavilion located on the Muscle Shoals Reservation in Colbert County, Alabama



Section 106 Undertakings

- Requires agencies to take potential project effects on historic properties into consideration.
- Outlines process for agencies to identify historic properties that could be affected by their projects (Undertakings)
- TVA undertakings can include any permit, license, construction, maintenance or other project that could physically or visually impact a historic property
- Requires agencies consult with SHPOs, Tribes and others with an interest in the project area (consulting parties)





Section 106 Consultation Process





Identify Historic Properties

- Area of Potential Effects
- Survey and Evaluate



Assess Effects

 Consult on Effects to Historic Properties



Achieve Resolution

 Avoid, minimize, or mitigate adverse effects



Section 106 Programmatic Agreement

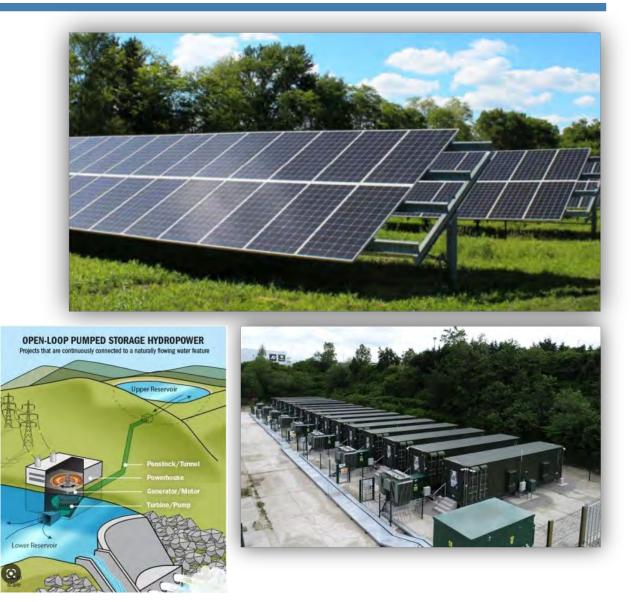
- TVA executed a PA with 7 states and 13 Tribes to streamline Section 106 process for repetitive and routine management activities
- These projects do not have to follow standard process:
 - Appendix A Excluded activities do not require cultural review (no potential to effect)
 - Appendix B Low potential activities that require cultural review and sent to consulting parties in annual report
- In FY22, over 1200 projects fell under the Appendix A and B.
- Projects where historic properties are identified must go through standard review process.





New TVA Projects

- New Gas-fired Generation plants (CC, CT, Aero CT), or combo gas- and fuel oil fired
- Decomissioning (D4): Decommissioning, Deactivation, Decontamination, and Dem olition
- Alternative Generation Technologies (Battery storage, pumped storage)
- Solar panels
- Electric Vehicle charging stations
- Dam Safety instrumentation





BREAK



Archaeological Site Monitoring and Protection

Erin Dunsmore, Senior Specialist, Cultural Resource Management & Policy

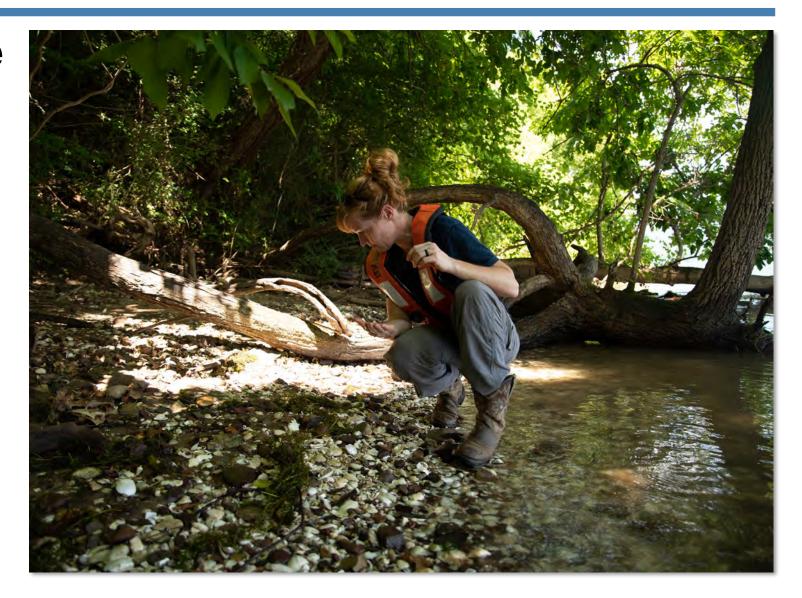
August 22, 2023



Archaeological Site Management

TVA is responsible for management of over 12,500 archaeological sites

- Monitoring
- Protection
- Outreach





Monitoring

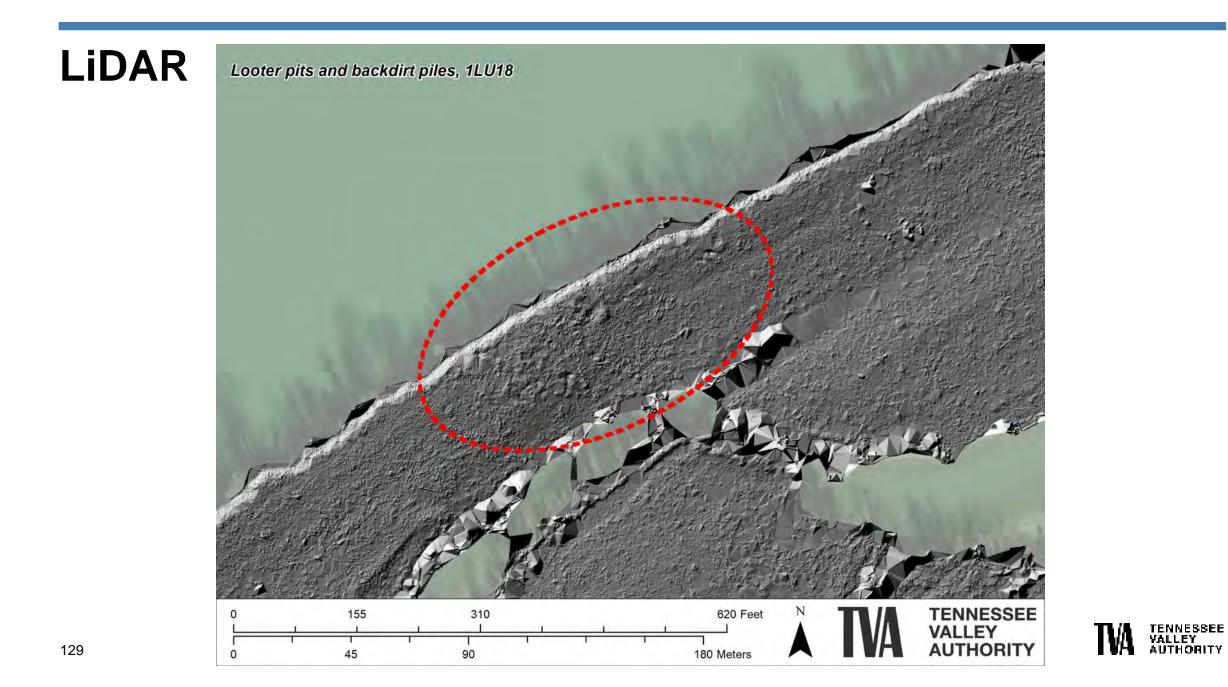
Annual Visits to known vulnerable sites

Focus Areas:

- Reservoir shorelines during winter drawdown
- Sites vulnerable to looting *Goals:*
- Identify sites with protection needs
- Prioritize needs (outreach, protection, additional monitors, TVA Police patrols
- Coordinate findings with Tribes in Quarterly Reports







Protection

Prioritized based on resource sensitivity and identified impacts

Protection methods include:

- Shoreline stabilization
- Site capping
- Cave gating or closure
- Signage
- Fencing
- Increased monitoring and/or patrols





"A Thousand Eyes" Archaeological Outreach

- Participation in community events and festivals
- Tribal partnerships
- Community partnerships
- Classroom activities and STEM Programs
- Speaking engagements
- Articles and publications
- Signage
- Volunteer Site Stewardship Program
- TVA Police saturation events





Volunteer Site Stewardship Program



- Began in 2015
- Two-day workshop with TVA and Tribal instructors
- Focus on safety, archaeology, tribal perspective, and laws
- One day in classroom
- Half-day in field with instructors
- Focus in areas where looting is prevalent
- Over 60 volunteers trained
- Florence, AL Chapter





ARPA Enforcement

Mike Angst, Archaeologist

August 22, 2023



Archaeological Resources Protection Act (ARPA)

- ARPA was enacted to secure, for the present and future benefit of the American people, archaeological resources and sites on Federal lands and Indian lands...
- ARPA makes it illegal to excavate, remove, damage, alter, deface or attempt to excavate, remove, damage, alter, or deface any archaeological resources on public or Indian lands without a permit.

Surface Collecting



What looting looks like



What looting looks like



Other types of site damage



Other types of site damage





ARPA Enforcement Overview at TVA

- Six TVA police officers devoted to protection of natural and cultural resources (ARPA)
- Additional support from TVA Police, other LEOs
- Detection of archaeological crimes on TVA land and enforcement of ARPA
- Work with U.S. Attorneys in prosecution of archaeological crimes on TVA land

WARNING

ARCHAEOLOGICAL SITE

Removal of artifacts or destruction of archaeological sites is punishable by civil and criminal sanctions, including fines, forfeiture, and/or imprisonment.

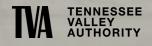




Dealing with Looters

What to do when you see someone looting:

- Contact TVA Police immediately (1-855-476-2489).
- Note general description of the individual and other information (car, boat, or other vehicle description).
- Drop a pin on a map or note the general location.
- Remove yourself from the scene.
- Have as little contact with the individual as possible.
- If damage has already been done, essentially a Violation & Encroachment, contact Cultural Compliance staff.
- Reminder: ARPA only applies to archaeological resources and sites on fee-owned land; does not include flowage easements, transmission line ROWs, etc.



NAGPRA

Meg Cook, Senior Specialist and Interim Tribal Liaison

August 22, 2023



Native American Graves Protection and Repatriation Act

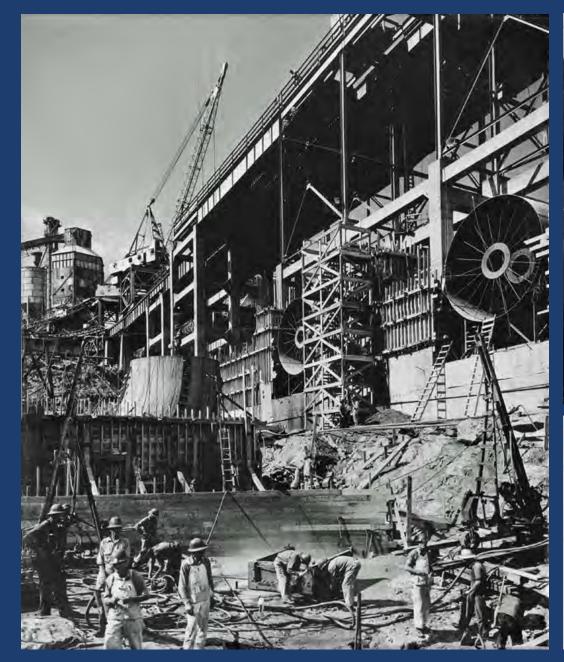
Enacted Nov. 16, 1990; Regulations promulgated Dec. 4, 1995

"...to reach **agreement on repatriation or other disposition** of these remains and objects."

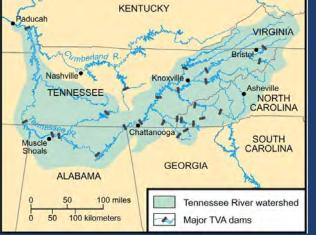
US House Report 101-877

"...to provide for the **protection** of Native American graves and the **repatriation** of Native American remains and cultural patrimony." US Senate Report 101-473













Regulatory Process

NAGPRA requires <u>repatriation</u> or <u>transfer</u> of Native American human remains and other cultural items after

> **Consultation** with lineal descendants and Federally Recognized Indian Tribes (Native Hawaiian Organizations if applicable).



Identifying and **reporting** collections likely to contain Native American Human remains and other cultural items (inventory).

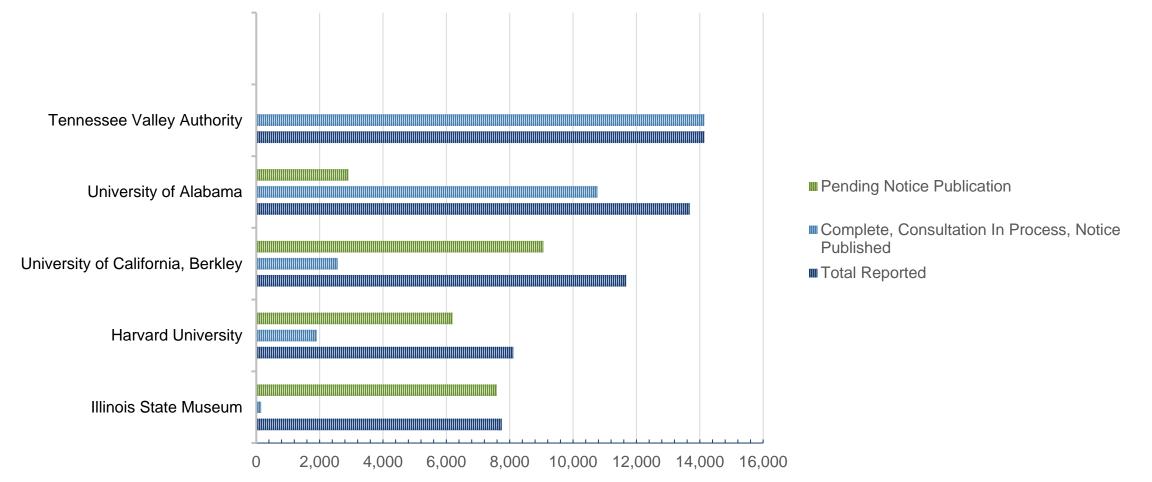


Giving notice prior to repatriating or transferring human remains and other cultural items.



Top 5 NAGPRA Collections

Reported to Dept of Interior, National NAGPRA Program





Consultation Matters

"Any additional inventory work should be based upon the request of a tribe, involve only existing records, and only for the limited purposes of geographic origin, affiliation, or facts around acquisition." –Melanie O'Brien, National NAGPRA Program Director, 3/16/21

Cataloging includes documenting each item from a site. One site may easily produce many thousands of artifacts, which requires time and resources.





Wrap-up

RaeLynn Butler, MCN

TENNESSEE VALLEY AUTHORITY

Wrap-up & Questions

Melanie Farrell

TENNESSEE VALLEY AUTHORITY

Closing Remarks



Adjourn



Drive Safely!



TENNESSEE VALLEY AUTHORITY