TVA TENNESSEE VALLEY AUTHORITY

Regional Energy Resource Council and Regional Resource Stewardship Council

January 18, 2024

Welcome!

The Meeting will begin at 8:30 AM Eastern

Welcome

TENNESSEE VALLEY AUTHORITY

RERC and RRSC Virtual Meeting

- **This is a Virtual only meeting for Council Members and the public**
- **We welcome members of the public who are in listen and view only mode**. There will be a Public Listening Session at 1:30 pm for those who have registered to speak. Written comments are always welcomed (tva.com/rerc and tva.com/rrsc).
- **RERC and RRSC Members are able to mute and unmute their own line.** Council Members may use the **raise hand function** to be recognized for questions or comments. I will call on you for your question or comment.
- **RERC and RRSC Members --** Please speak loudly so that all can hear your comments.

Introductions

Name

Position, Organization

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RERC Term 6 Members

Introductions:
Name
Position, Organization

Jan Berry
Citizens Climate Education

Marquita Bradshaw
Sowing Justice

Ron Bunch
Bowling Green Chamber of Commerce

Monte Cooper
Jackson Energy Authority

Erin Gill *
Knoxville Utilities Board

Rebecca Goodman
Commonwealth of Kentucky

Rodney Goodman
Habitat for Humanity

Chrissy Heard
State of Mississippi

Chelsea Jenkins
Commonwealth of Virginia

Candy Johnson
Urban League of Greater Chattanooga

Sen. Steve Livingston
State of Alabama

Pete Mattheis
Tennessee Valley Industrial Committee

Dan Miller
Oak Ridge National Laboratory

*** RERC Council Chair**

Doug Peters
Tennessee Valley Public Power Association

Boyd Pettit
State of Georgia

Erik Schmidt
City of Chattanooga

Patricia Sims
Drake State Community & Technical College

Alexa Voytek
State of Tennessee

Julie Woosley
State of North Carolina

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RRSC Term 12 Members

Introductions:
Name
Position, Organization

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

*** RRSC Council Chair**

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

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Agenda

Joint RERC & RRSC Meeting
January 18, 2024
All times are Eastern Time

8:30 am	**Welcome – Chairs Erin Gill (RERC) and Tom Littlepage (RRSC)** **Designated Federal Officer (DFO) Melanie Farrell** **Introductions of Council Members** **Meeting Protocols, Agenda**
9:00	**DFO Briefing**
9:15	**Valley Pathways Study**
10:00	Break
10:15	**Valley Pathways Study (cont.)**
11:00	**Advice Questions Discussion**
12:00 pm	Lunch
1:30	**Public Listening Session**
1:45	**Finalize Advice Statements in Separate Rooms for RERC & RRSC**
2:45	**Read RERC and RRSC Advice Statements to Combined Group**
3:00	**Closing Remarks, Adjourn RERC- RRSC Meeting**

DFO Briefing

Melanie Farrell, Designated Federal Officer (DFO)

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Federal Advisory Committee Overview

TVA Board

Regional Resource Stewardship Council (RRSC)
Created 1999

Regional Energy Resource Council (RERC)
Created 2013

RRSC - provides advice on TVA stewardship activities and the priorities among competing objectives and values.

Examples include:
- Operations of TVA's dams and reservoirs
- Navigation and flood control
- Management of lands in TVA custody and control
- Water quality
- Wildlife
- Recreation
- 26a permitting
- Cultural resources
- Pollinator Habitat

RERC - provides advice on TVA energy resources and the priorities among competing objectives and values.

Examples include:
- Construction and operation of various supply-side resources, including fossil-fueled power plants, nuclear plants, hydroelectric dams, and renewable resources
- Development and management of demand-side resources, including energy efficiency
- Design, construction, and operation of power delivery systems
- The integration of all of these energy resources into plans for meeting future demands for electricity in the TVA region

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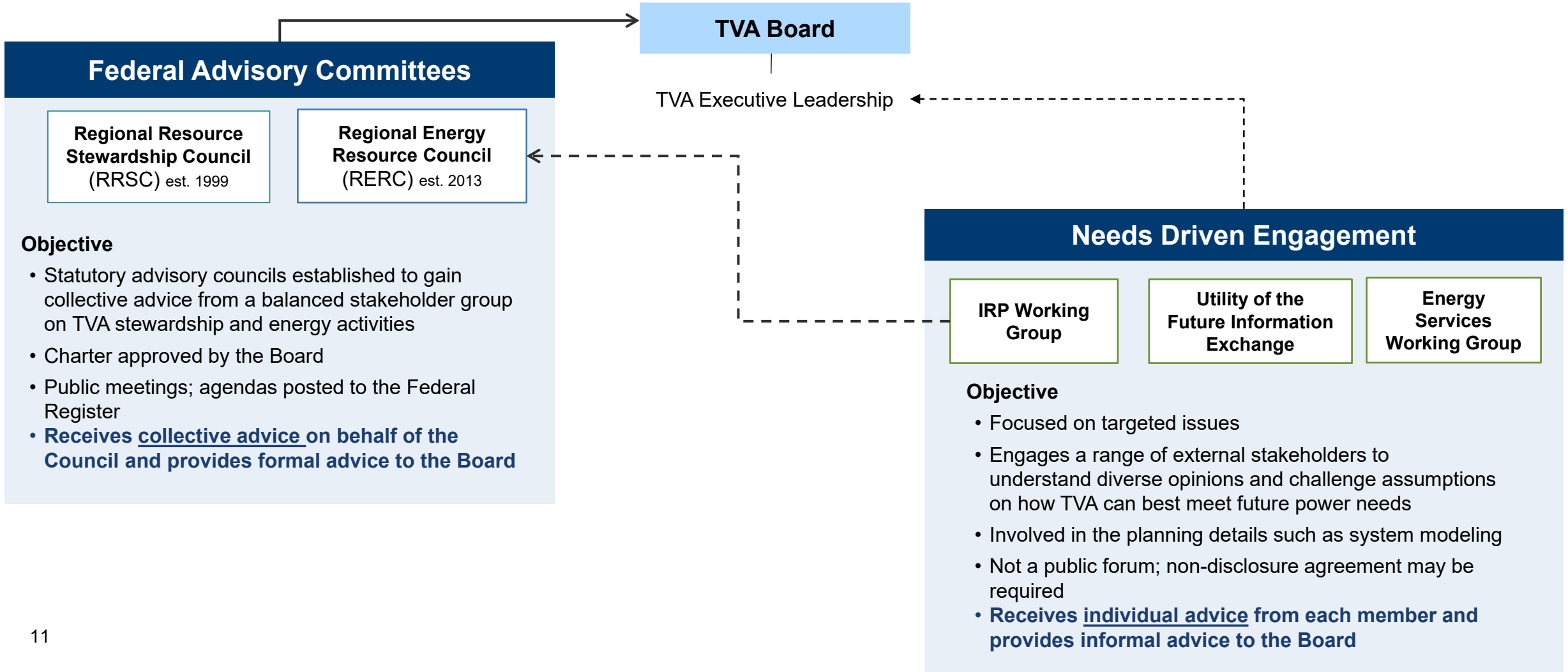
Structured TVA Stakeholder Engagements

The following describes the objectives of TVA's Federal Advisory Committees versus other needs driven stakeholder engagements and the respective differences in advisement to TVA Executive Leadership and the TVA Board of Directors.



Valley Pathways Study:

Building a Competitive, Clean Economy

Laura Duncan, TVA Senior Project Manager, Environment & Energy Policy

Dr. Charles Sims, TVA Distinguished Professor of Energy & Environmental Policy, UT Baker School

January 18, 2024

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Overview

- The Valley Pathways Study kicked off in February 2023 in partnership with the University of Tennessee Baker School of Public Policy & Public Affairs
- Objective is to quantify sources of greenhouse gas (GHG) emissions from across the entire Valley and evaluate pathways for the Valley to reach Net Zero GHG emissions by 2050.
- Technical modeling was executed in parallel with stakeholder engagement, driving support and ownership of the study and its results across all economic sectors and diverse perspectives.
- Next steps are focused on sharing preliminary findings, continued stakeholder engagement and how to support, coordinate, and move toward Valley-wide action.

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Study Partnership & Stakeholder Collaboration

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Study Partnership & Support

THE UNIVERSITY OF TENNESSEE KNOXVILLE
BAKER SCHOOL OF PUBLIC POLICY & PUBLIC AFFAIRS

Mission is to address *critical energy and environmental challenges* by creating policy-relevant research and educational opportunities that integrate natural, physical, and social science.

TVA

Mission is to serve the people of the Tennessee Valley to make life better, with a focus on Energy, Environment, and Economic Development.

Guidehouse

veic

Significant, ongoing TVA experience working on major initiatives & engaging stakeholders

Experience conducting economy-wide decarbonization pathways modeling

Guidehouse and VEIC are uniquely positioned to understand decarbonization pathways for the Valley and drive stakeholder alignment.

- **Massachusetts 2050 Decarbonization Roadmap**
- **Duke Energy Carolinas Carbon Plan**

Be Part of the Solution

At the Baker School, our mission is to educate skilled problem solvers, prepare them to take public leadership roles, and help our country solve the biggest challenges of our time.

Our faculty conduct research and work with policymakers to resolve major public policy challenges, and our students have the opportunities inside and outside the classroom to

Rooted in the legacy of Howard Baker Jr.

- Understanding and holding confidence in America's institutions.
- Respect for opposing viewpoints as a hallmark of leadership
- Mastering the art of the possible to solve complex problems.

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HOWARD H. BAKER JR. SCHOOL OF PUBLIC POLICY AND PUBLIC AFFAIRS

CENTER FOR ENERGY, TRANSPORTATION & ENVIRONMENTAL POLICY

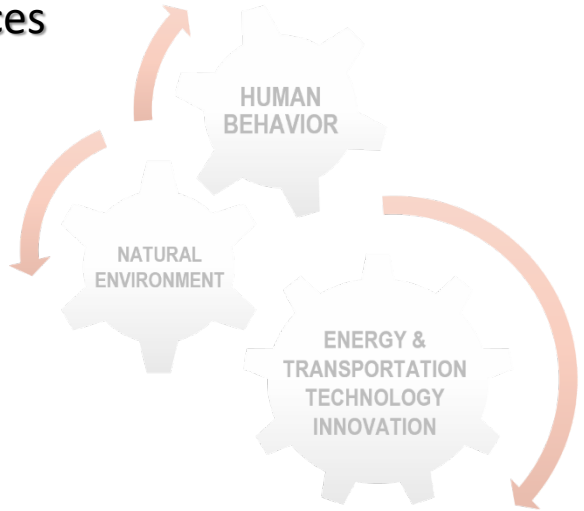
CETEP is an interdisciplinary network of scholars and partners extending across UT and to every level of government, the nonprofit sector, ORNL, TVA, and industry.

Housed within UT Baker School of Public Policy & Public Affairs

Joint faculty with Haslam College of Business and UT Institute of Agriculture

Integrating natural, physical, and social science to address:

- Energy consumption and conservation
- Nuclear energy
- Renewable energy
- Air and water pollution
- Ecosystem services
- Climate change



We tackle critical energy and environmental challenges by creating policy-relevant research, educational opportunities, and public outreach.

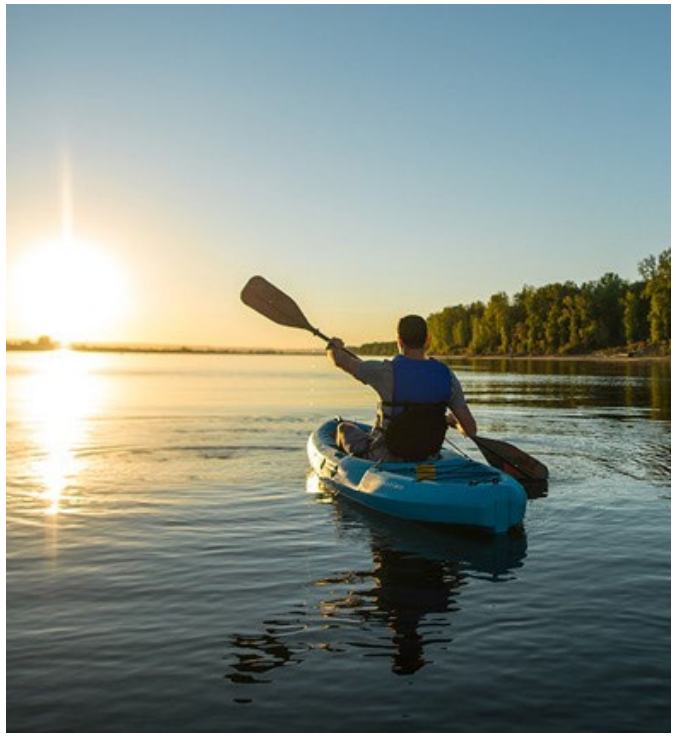
TVA's Mission

To serve the people of
the Tennessee Valley
to make life better.

Delivering on Our Mission

Energy | Environment | Economic Development

Provide affordable, reliable power.



Steward the Valley's natural resources.

Partner for economic growth.

Guidehouse

Guidehouse is partnering with VEIC to provide combined capabilities to deliver this Valley-wide, economy-wide, decarbonization pathways study. Together, Guidehouse and VEIC are uniquely positioned to understand decarbonization pathways for the Valley and drive stakeholder alignment.

Guidehouse is a global company headquartered in Washington, DC, that provides management, technology and risk consulting to clients with more than 15,000 professionals in over 50 locations throughout the world. https://www.guidehouse.com/

Significant, ongoing TVA experience working on major initiatives & engaging stakeholders

Vermont Energy Investment Corporation (VEIC) provides energy consulting services to states, utilities, Federal agencies, nonprofit organizations, and businesses. We have a significant market presence in North America with work across 25 states and provinces.

https://www.veic.org/

Experience conducting economy-wide decarbonization pathways modeling

Experience includes:

- Massachusetts 2050 Decarbonization Roadmap
- Duke Energy Carolinas Carbon Plan

Economy-Wide Study, Economy-Wide Stakeholders

- ***Decarbonization touches every household, building, and business in the Valley.***
- ***Stakeholder representation must be similarly broad and must start early.***

Preliminary List of Key Topics and Stakeholder Groups	
Municipal sustainability	Economic development
Rural sustainability	Equity & environmental justice
Agriculture	Local Power Companies
Manufacturing and industry	Organized labor and vocational education
Elected officials (federal, state, local)	State energy offices
Universities and research agencies	Seven states comprising the Valley
Internal TVA stakeholders (e.g., IRP)	Energy efficiency programs
Environmental NGOs	Transportation and mobility

Economy-Wide Study, Economy-Wide Stakeholders

- Ford Motor Company
- City of Knoxville
- Oak Ridge National Laboratory
- Southeast Energy Efficiency Alliance
- WestRock
- BrightRidge
- Tennessee State University
- University of Tennessee Chattanooga
- The Nature Conservancy
- Redstone Arsenal
- Tennessee Farm Bureau Federation
- Tennessee Interfaith Power and Light
- Tennessee Advanced Energy Business Council
- Tennessee Department of Economic Development
- Nashville Electric Service
- City of Chattanooga
- Tennessee Valley Public Power Association
- Middle Tennessee Natural Gas Utility District
- City of Florence Electricity
- UT Center for Transportation Research
- Tennessee Valley Industrial Committee
- Tennessee Department of Environment and Conservation
- Commonwealth of Kentucky Energy and Environment Cabinet
- Memphis and Shelby County Division of Planning and Development

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Study Overview

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?

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Utilities, States and Cities on this Path

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Valley Pathways Study

Pathways studies are designed to evaluate what a Net Zero economy looks like

- **Technical Approach**
  - Begin with analysis of current greenhouse gas emissions (the Valley's "baseline").
  - Build inventory of key facilities, equipment, and activities comprising the Valley's economy.
  - Forecast future changes to population, technology, and infrastructure.
  - Detailed evaluation of the regional energy system to evaluate changing energy needs.
- **Key Outcomes**
  - There is not a unique "right answer" to get to Net Zero.
  - Every pathway trades off success, cost, or some other variable compared to another area.
  - Comparing and contrasting pathways highlights key "no regrets" actions, as well as fundamental forks in the road.
  - Findings arm the Valley with critical information to weigh options in future planning and actions across the economy.

Valley Pathways Study

A study to understand what economic sectors, such as transportation, industry, agriculture and buildings, might do throughout the Valley in the coming years to reduce carbon emissions and grow the economy.

Community

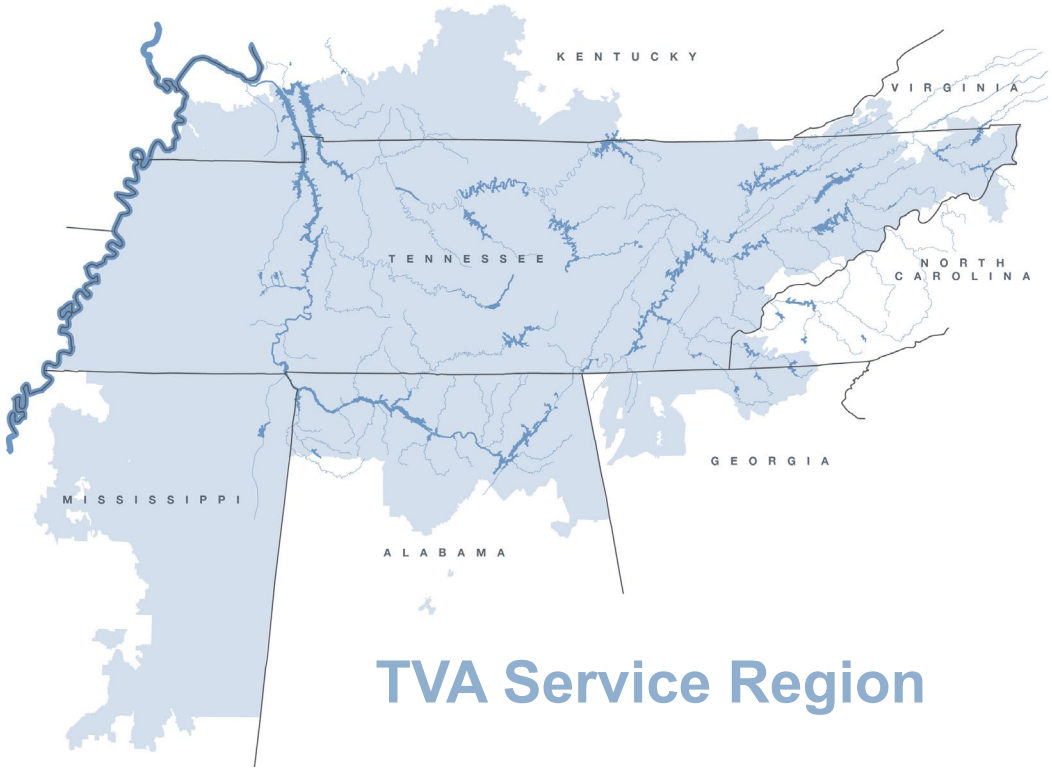
Residential

Commercial

Industrial

Agricultural

Transportation



TVA Service Region

TVA's Integrated Resource Plan

Sets strategic direction for how TVA will meet the electricity load needed in the future in a least cost, reliable and responsible manner.

Gas

Carbon Capture

Hydrogen

Hydro

Utility-Scale Solar

Energy Storage

Utility-Scale Wind

Nuclear/SMRs

Energy Efficiency

Demand Response

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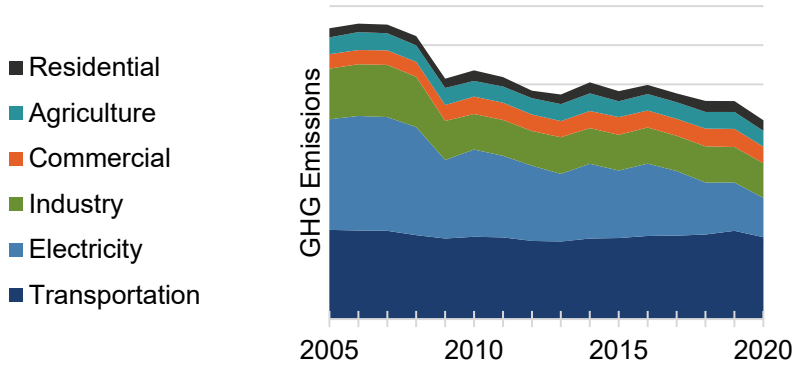
Key Components

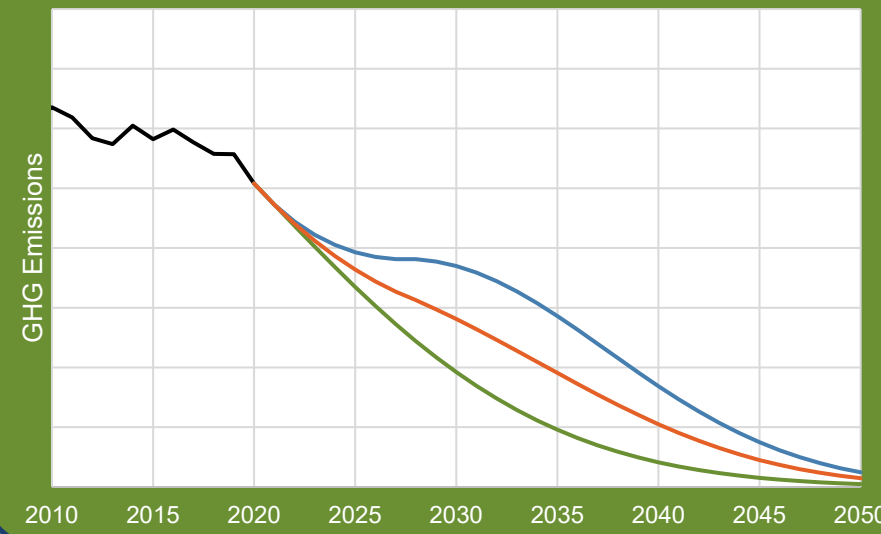
Valley Stakeholders

- Geographic & economic sector reps
- Key issue advocates
- State, municipal, and local power company officials

Valley Baseline GHG Footprint



Pathways to Net Zero



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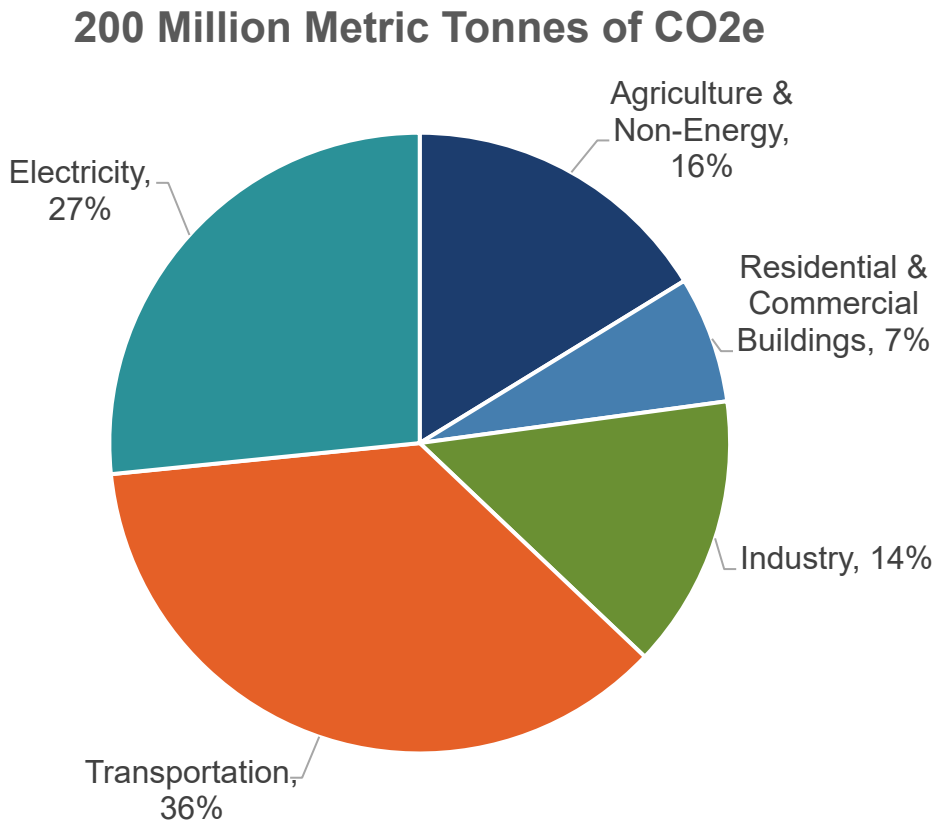
GHG Baseline for the Valley

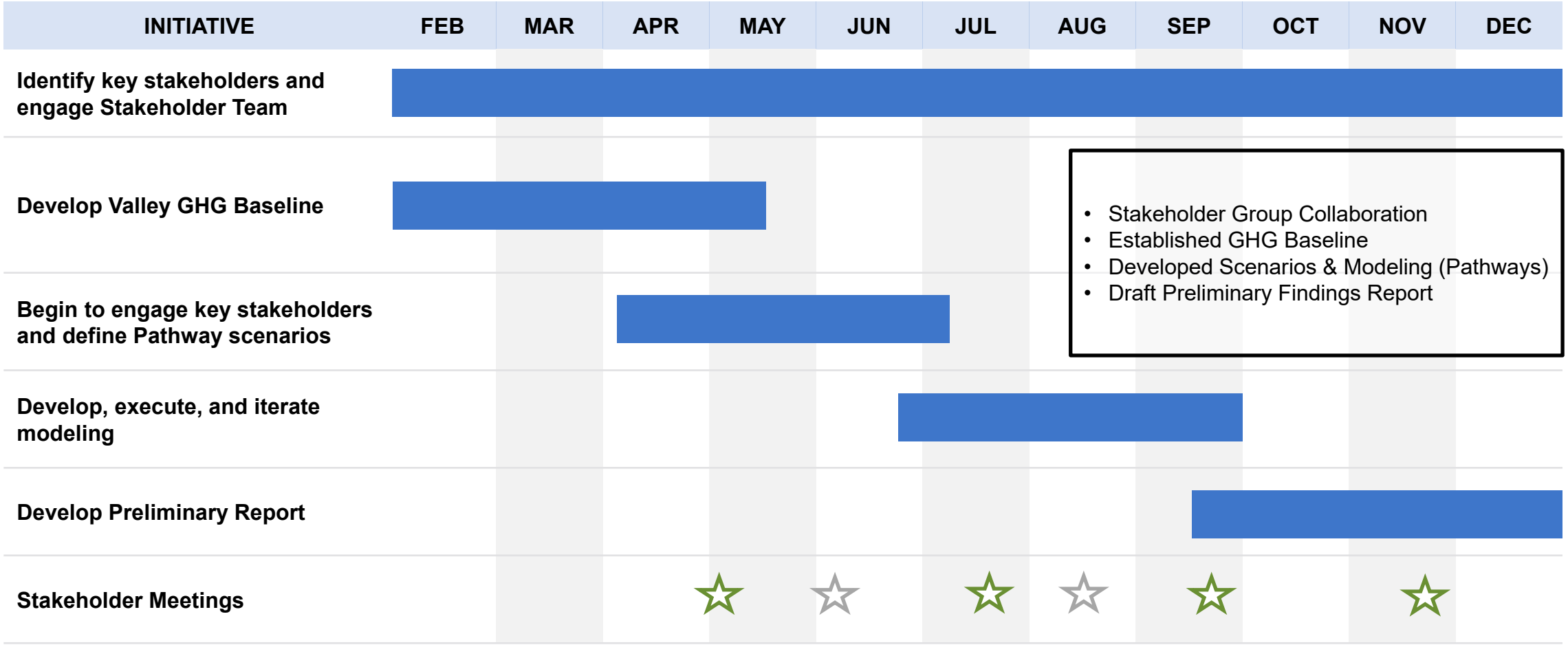


Tennessee Valley 2019 Greenhouse Gas Emissions (estimated). Commissioned by TVA and UTK Baker Center. Prepared by Guidehouse and VEIC. Draft, Nov. 2023.

Key Insights

- 200 MMTCO2e is ~3% of US GHG emissions – the Tennessee Valley is home to about 10 million people, or about 3% of US population.
- Transportation is, by far, the largest source of greenhouse gas emissions in the Valley.
- Emissions from Buildings and Industry look small, but these sectors demand nearly 100% of the electricity that is generated for the Valley.
- Agriculture represents only energy consumed; methane emissions related to agriculture are in Non-Energy alongside refrigerants and flame retardants.

Timeline & Accomplishments



Questions?

BREAK

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Analysis & Pathways Development

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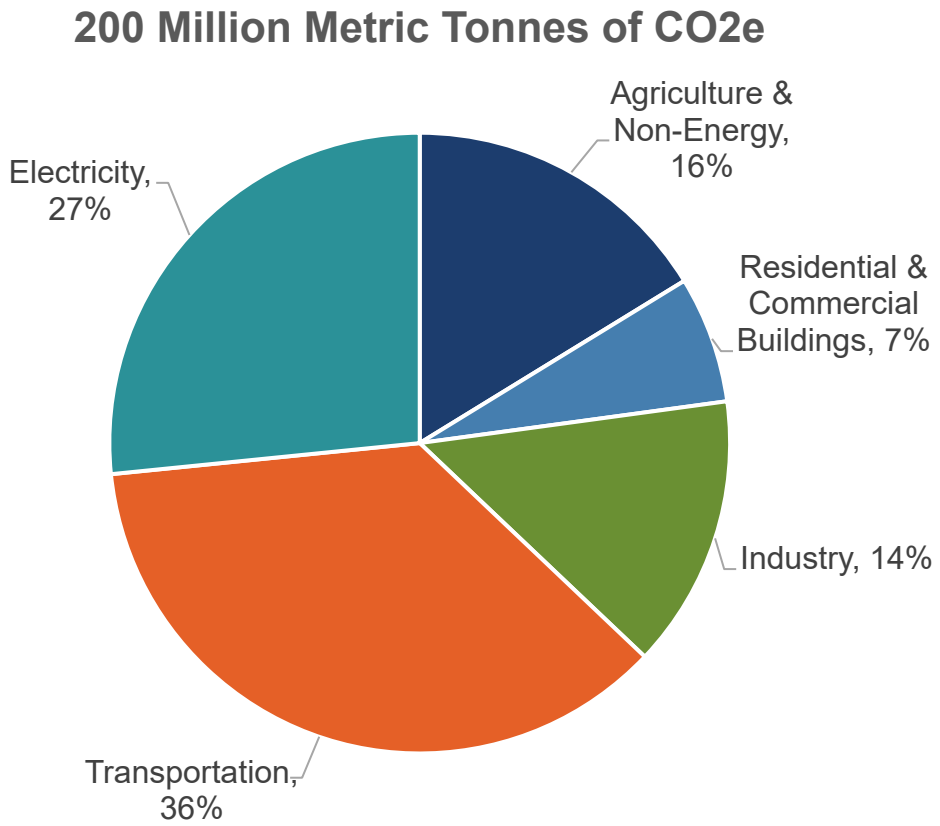
GHG Baseline for the Valley



Tennessee Valley 2019 Greenhouse Gas Emissions (estimated). Commissioned by TVA and UTK Baker Center. Prepared by Guidehouse and VEIC. Draft, Nov. 2023.

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Defining Pathway Scenarios: model different rates of technology adoption, other drivers, answer questions

Example Scenario Questions

What does the Net Zero Valley-wide economy look like IF:

- Vehicle electrification happens quickly? Slowly?
- Advanced EV battery manufacturing plants are sited in the Valley?
- Population and/or GDP grow at a certain rate?
- Bioenergy resources are available at scale and low-cost?

Key Variables

Technology Inventory

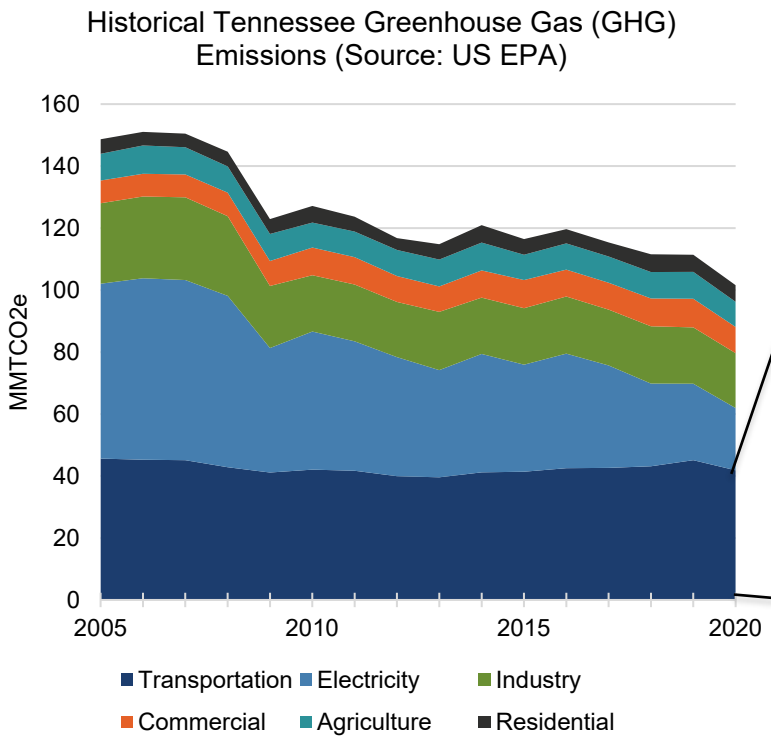
- Furnaces
- Boilers
- Cars
- Trucks
- Offices
- Factories
- Airports
- Farm equipment
- Clean and fossil power plants

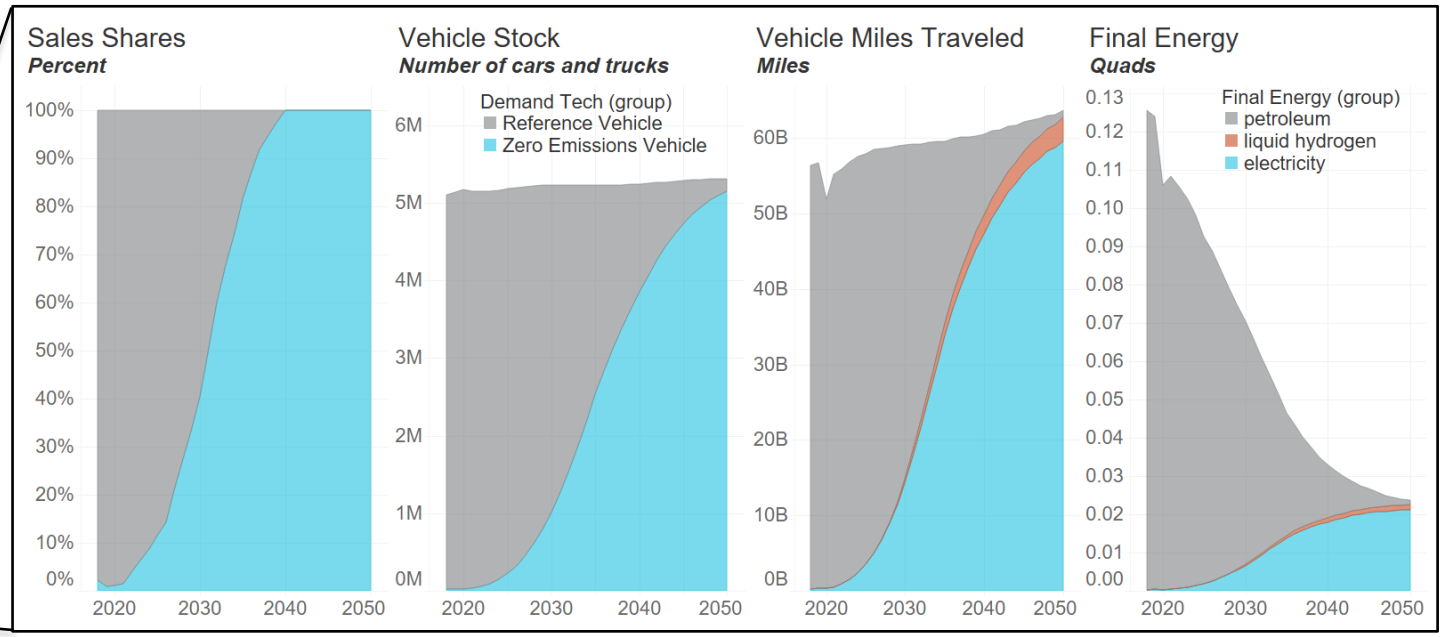
Economic Drivers

- Population and households
- Workforce and economic development
- Production of goods
- Freight
- Commuting
- Key policy initiatives

Disaggregating “The Economy” into sets of activities and technologies

Illustrative data – does not reflect actual Valley fleet, nor anticipated EV adoption.





Each component represents a potential variable to define a scenario.

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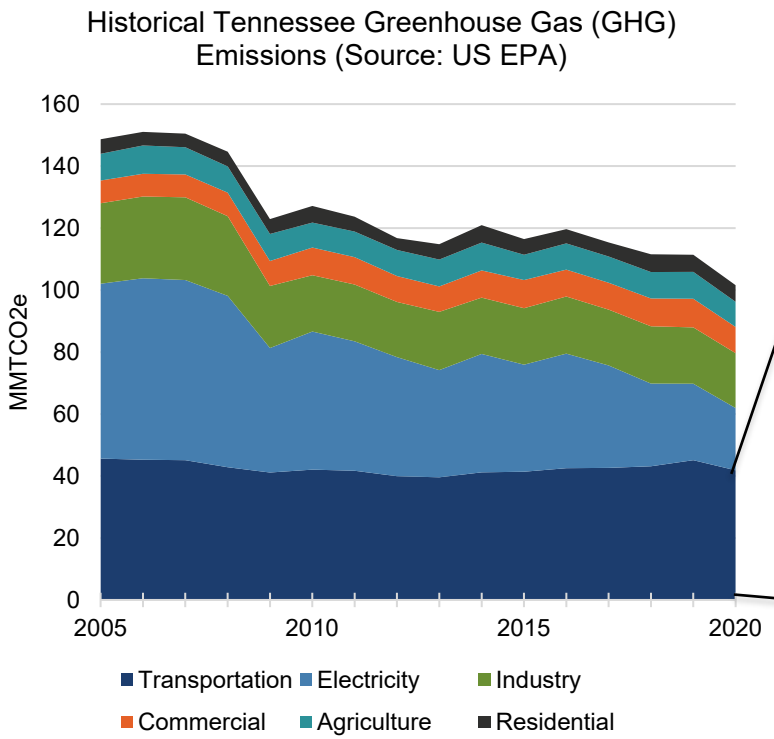
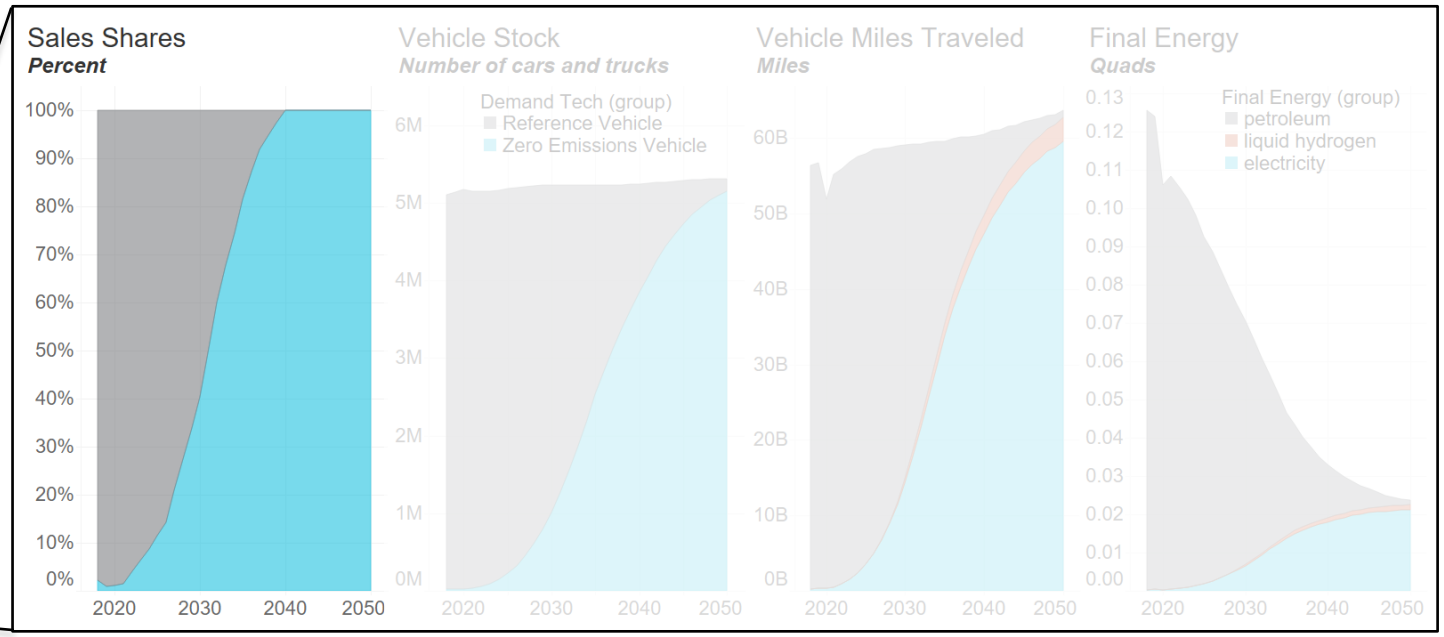
Disaggregating “The Economy” into sets of activities and technologies





Adoption of EVs over time can be influenced by market dynamics as well as Federal policy.

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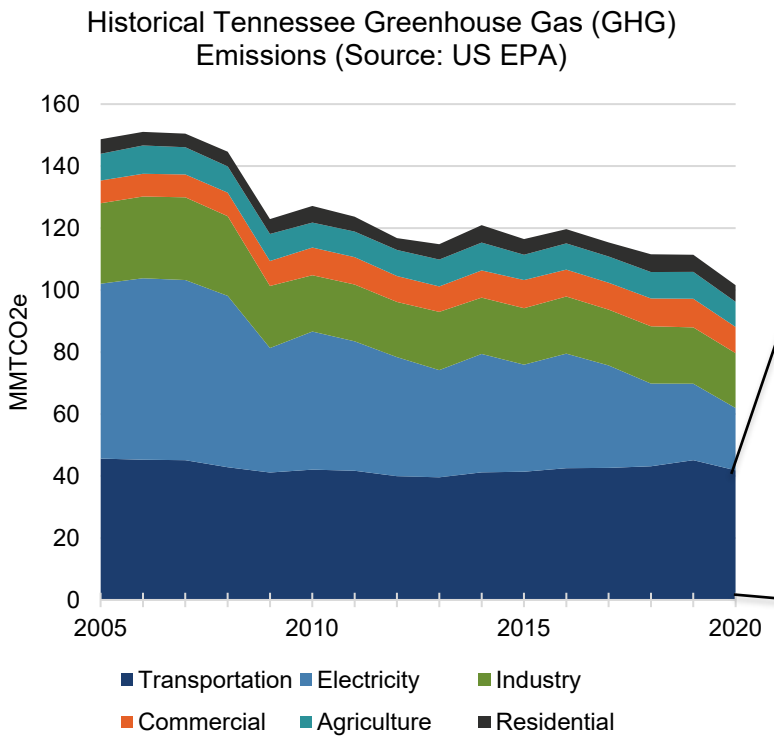
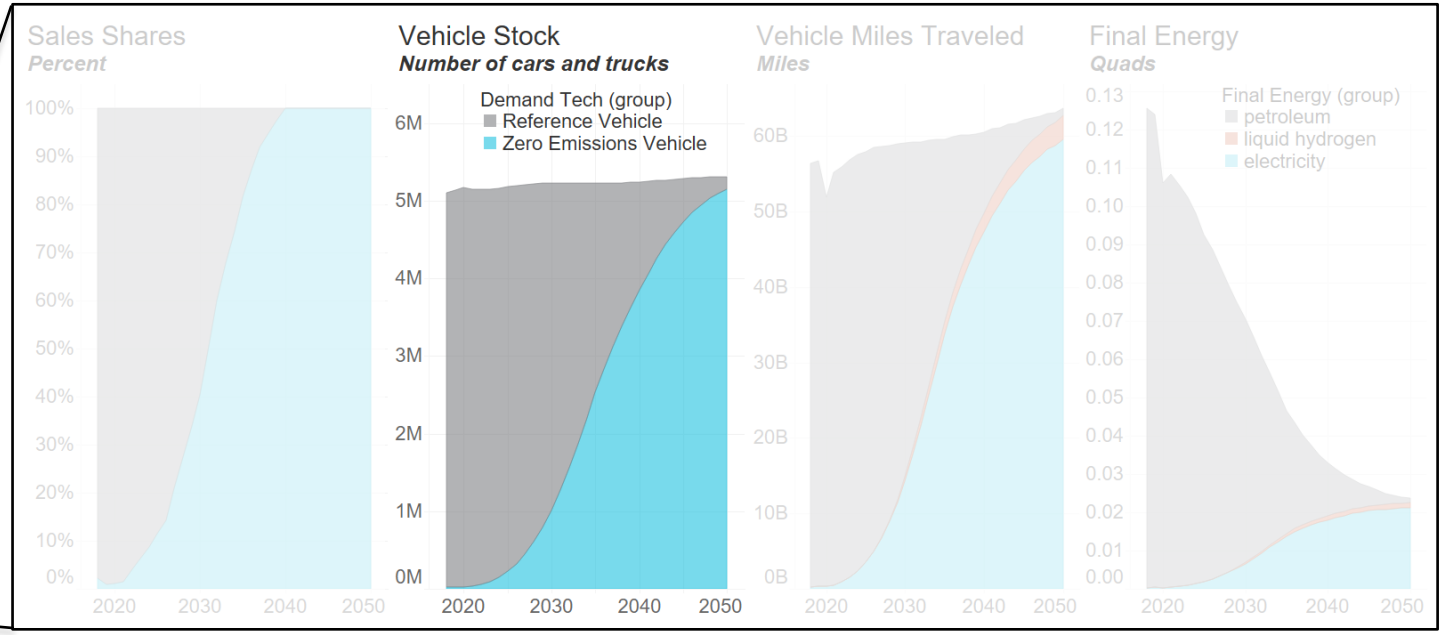
Disaggregating “The Economy” into sets of activities and technologies





The total vehicle fleet in the Valley may increase or decrease in step with population growth.

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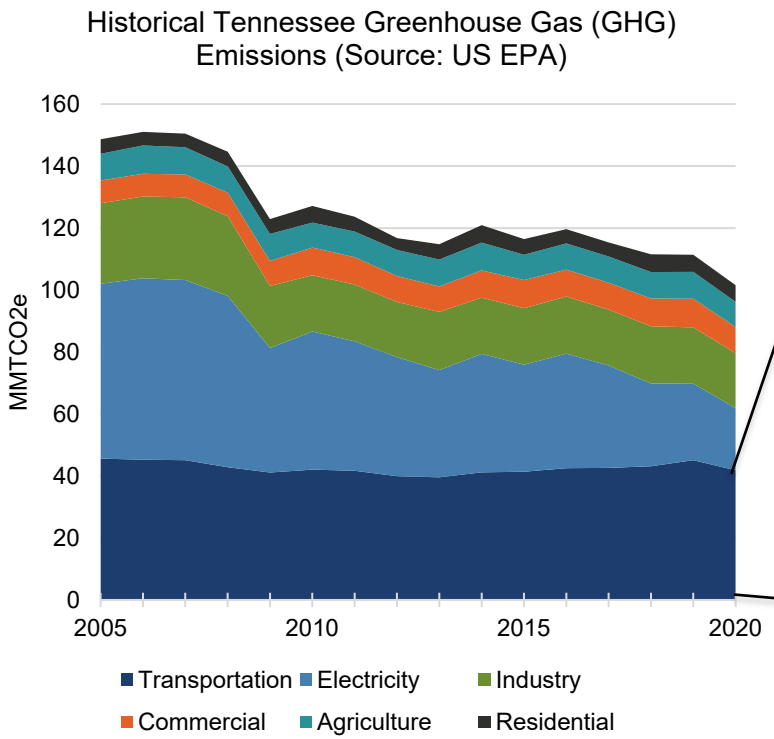
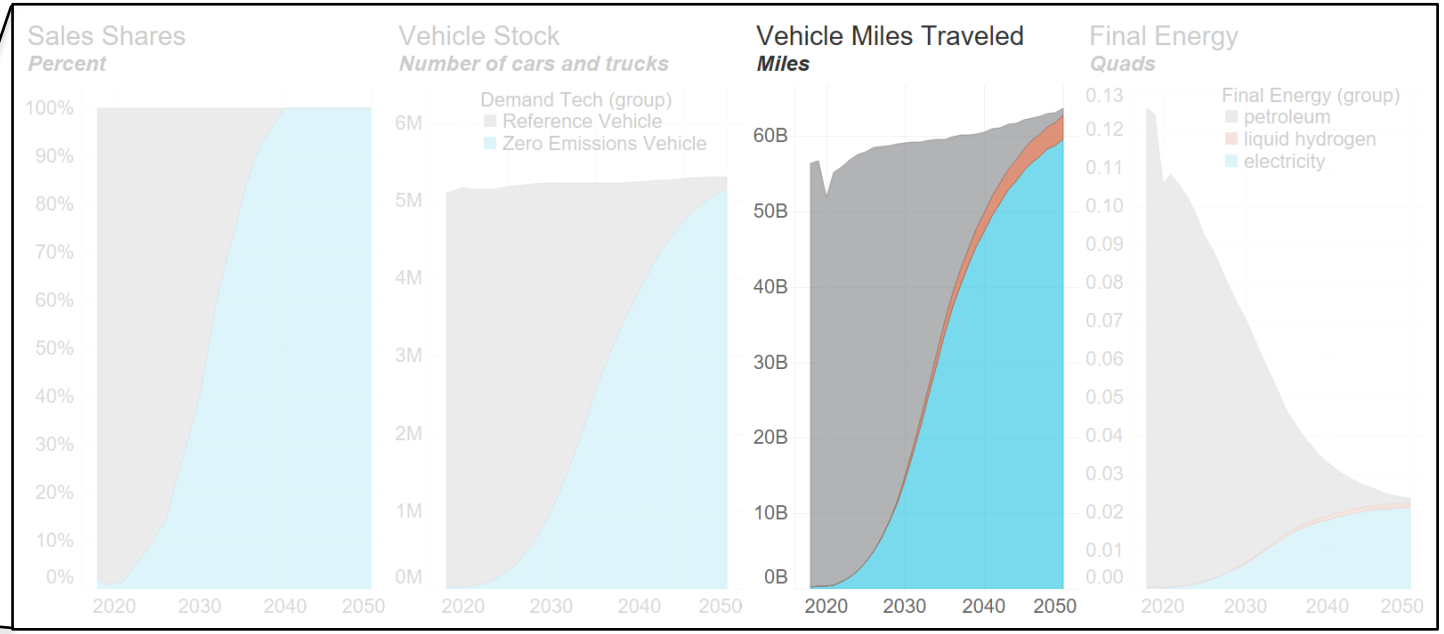
Disaggregating “The Economy” into sets of activities and technologies





Evolving workforce dynamics and non-vehicle alternatives can change how much personal vehicles are used.

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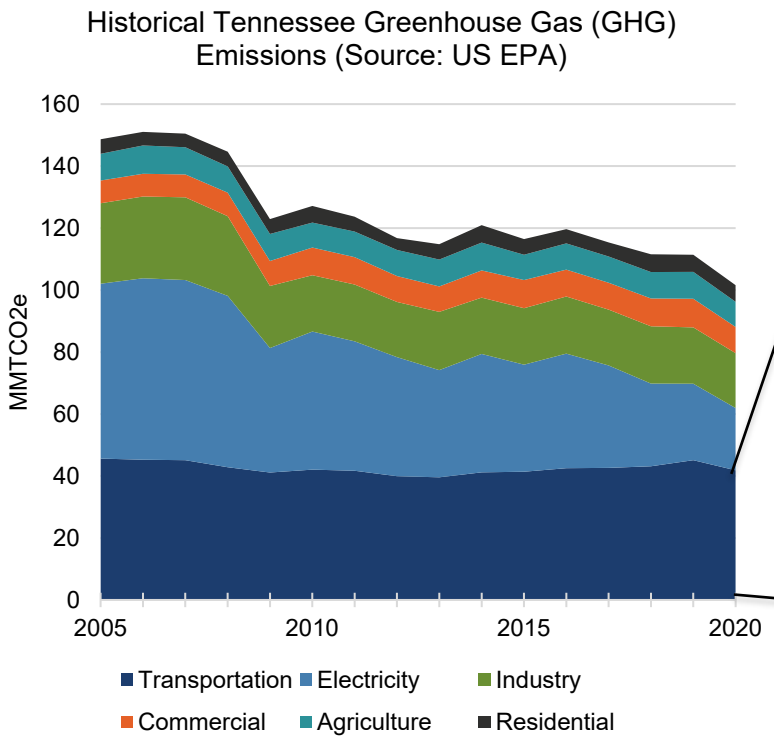
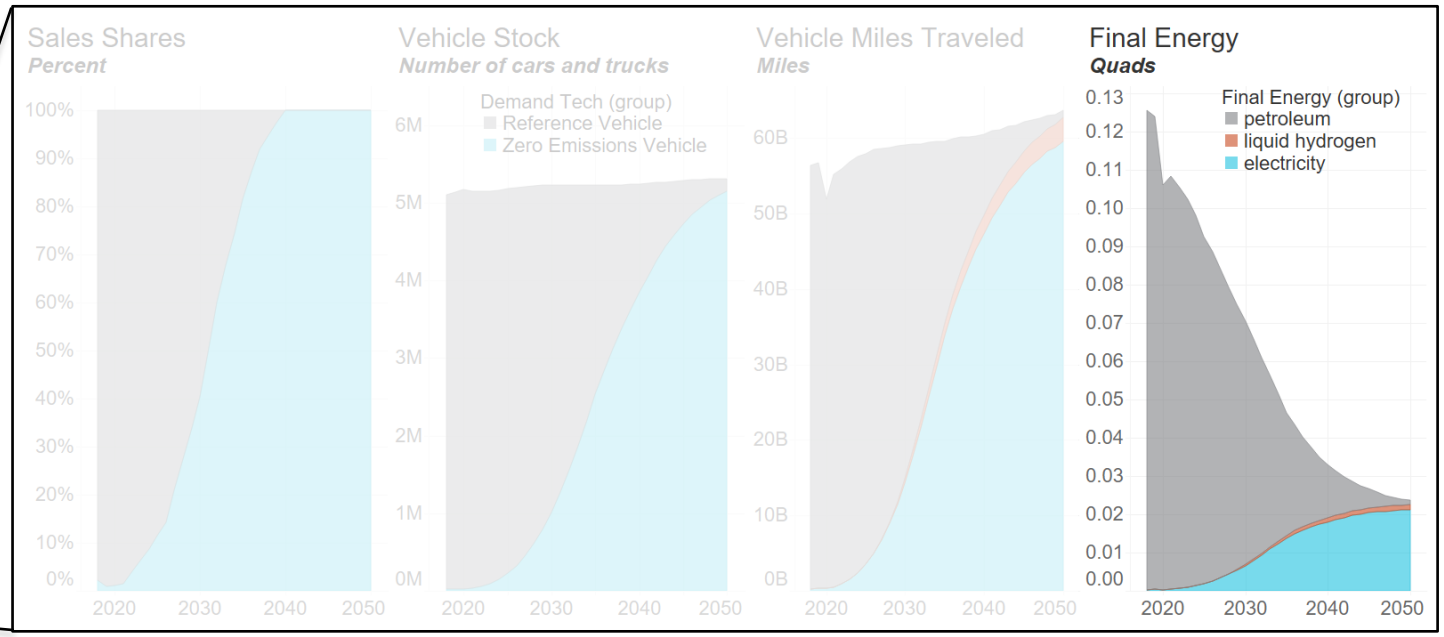
Disaggregating “The Economy” into sets of activities and technologies





A function of total vehicles and their use, fuel consumption will change dramatically

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Pathways to Net Zero – Scenarios

Scenarios align to "Pillars of Decarbonization"

Initial pathways scenarios focused on three critical strategies, often referred to as "pillars of decarbonization" – **efficiency, electrification**, and **low-carbon fuels.** A fourth pathway tests the synergies of combining those levers.

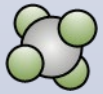
Community Resiliency

A future where more demands – for energy, goods, and services – throughout the economy are met and funded locally. Denser communities, both urban and rural, allow for less driving.

Accelerated Electrification

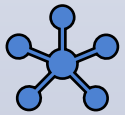
A future where almost everything in the Valley is electrified. This scenario explores the upper bound of how much electricity demand growth might be expected in a Net Zero economy.

Low-Carbon Breakthrough



A future in which the pace and l magnitude of electrification is more limited. Instead, innovation allows new low-carbon fuel alternatives to be deployed beyond just niche applications.

Combined Scenario



A future where the Valley strives for a combination of the three strategies. This scenario takes an "all of the above" approach matching decarbonization strategies to their most impactful sectors.

Preliminary Findings

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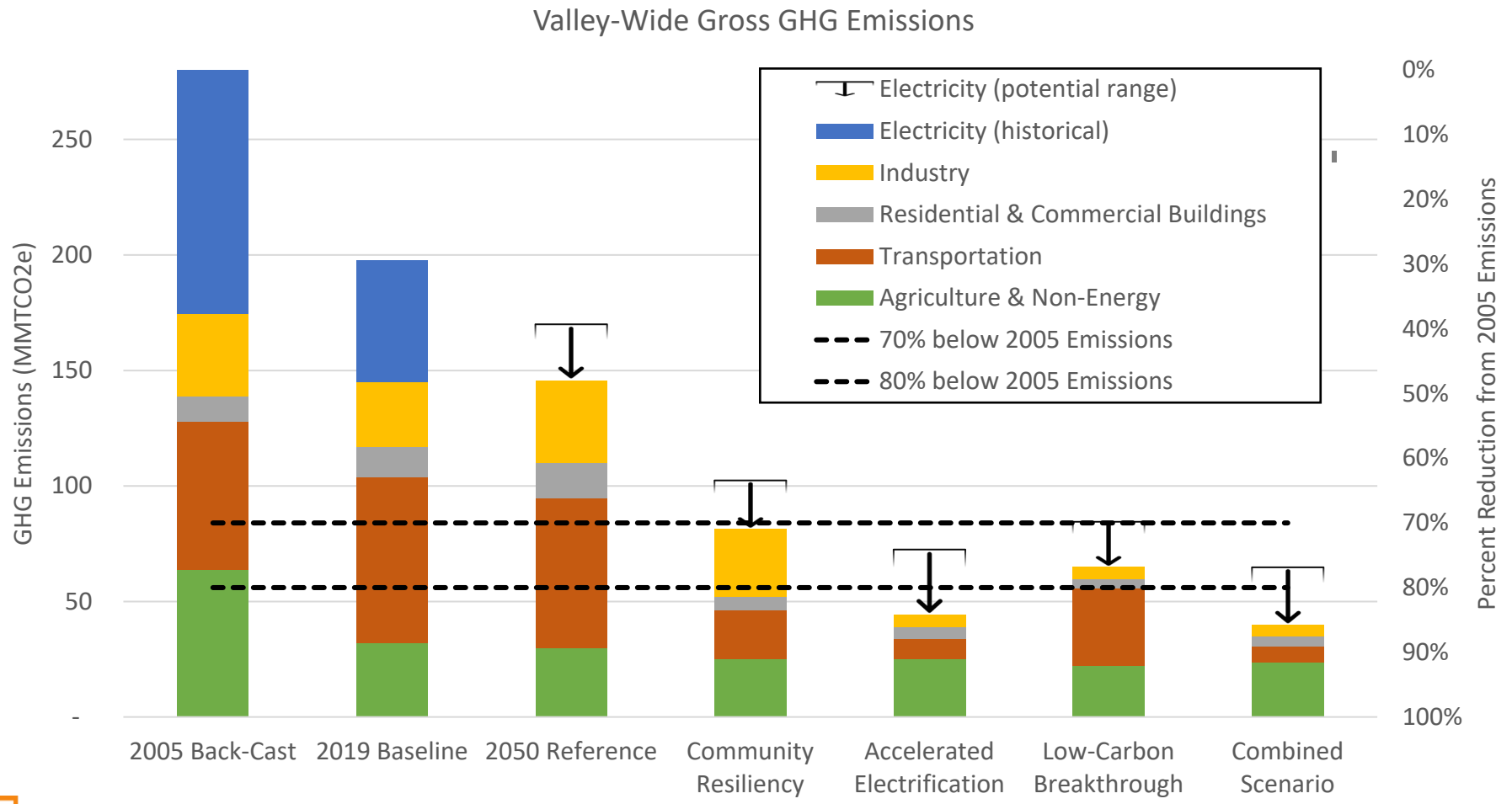
High-Level Model Results



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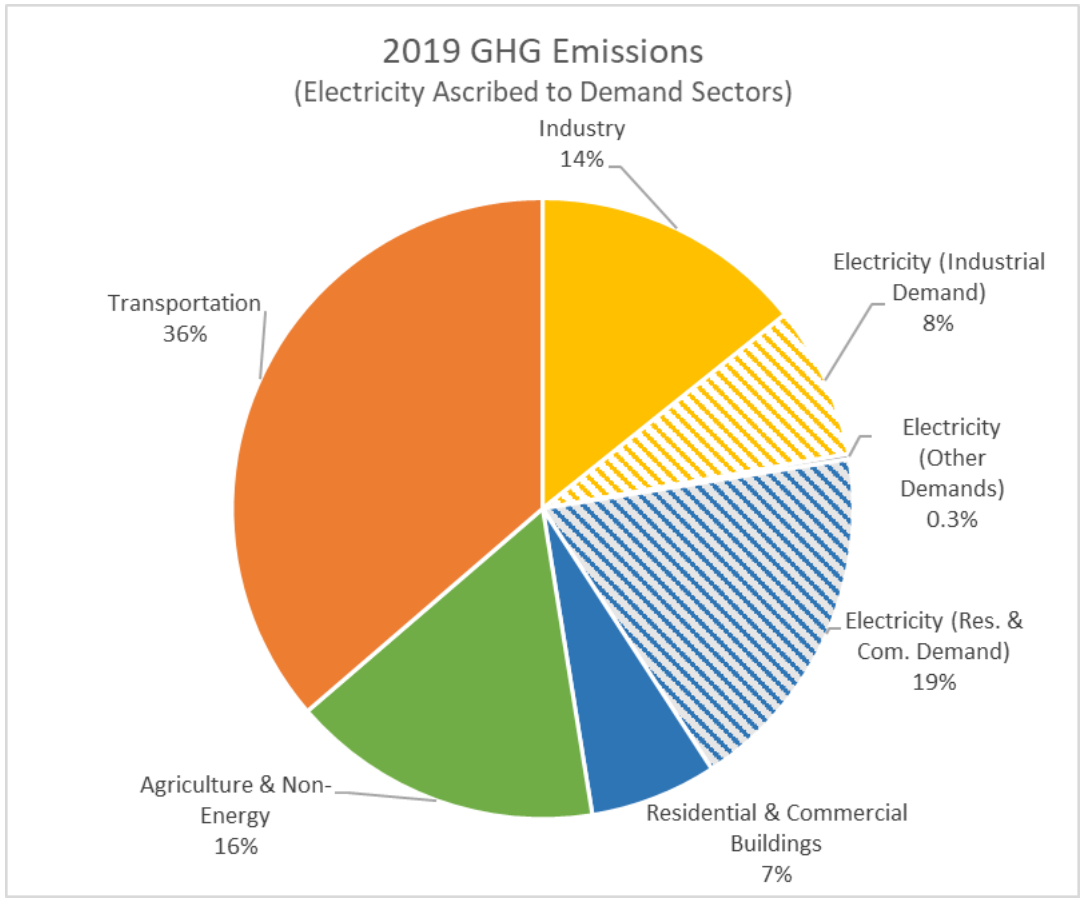
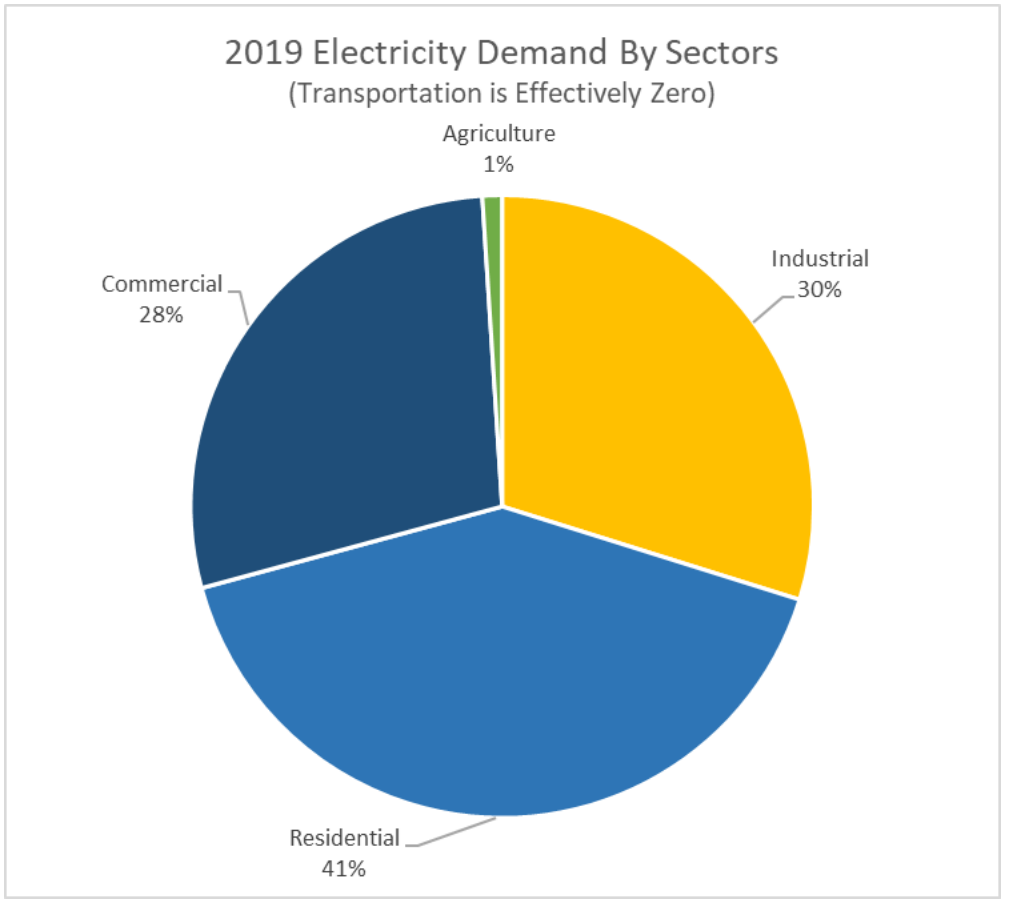
GHG Baseline – Electricity Demand by Sector





Tennessee Valley 2019 Greenhouse Gas Emissions (estimated). Commissioned by TVA and UT Baker School. Prepared by Guidehouse and VEIC. Draft, Nov. 2023.

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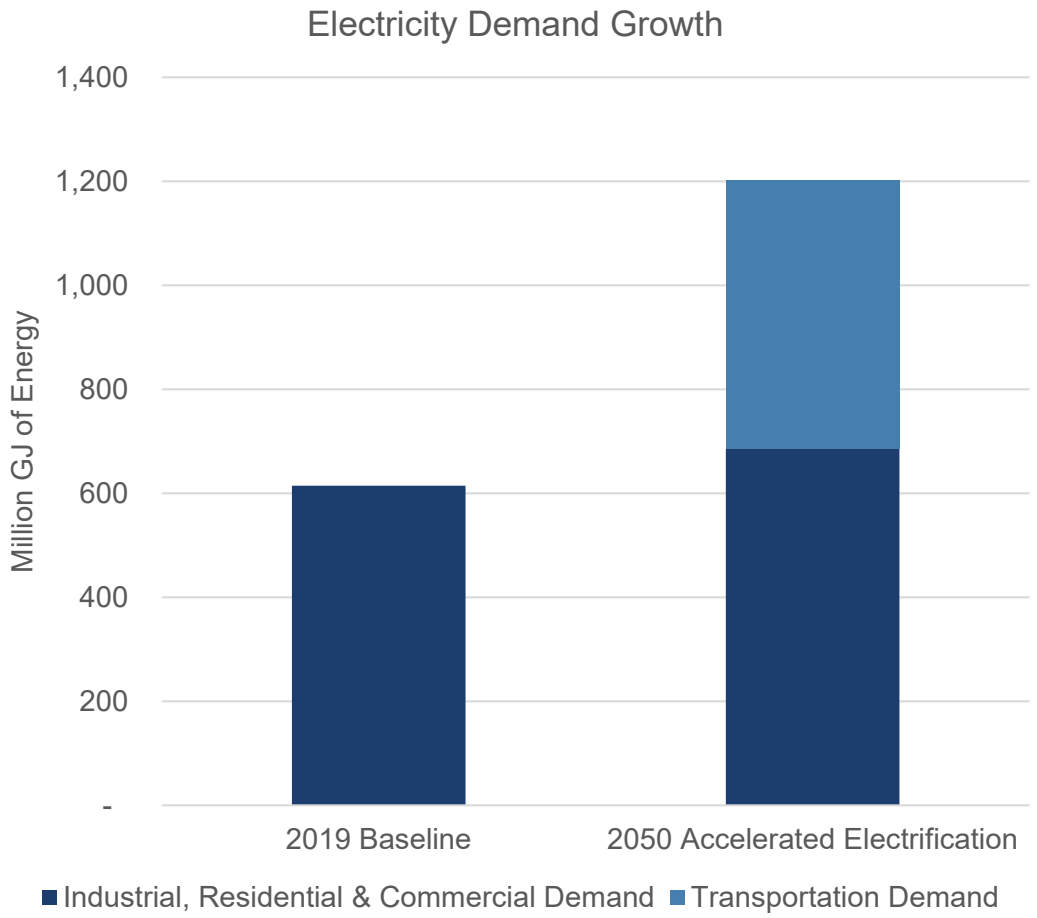
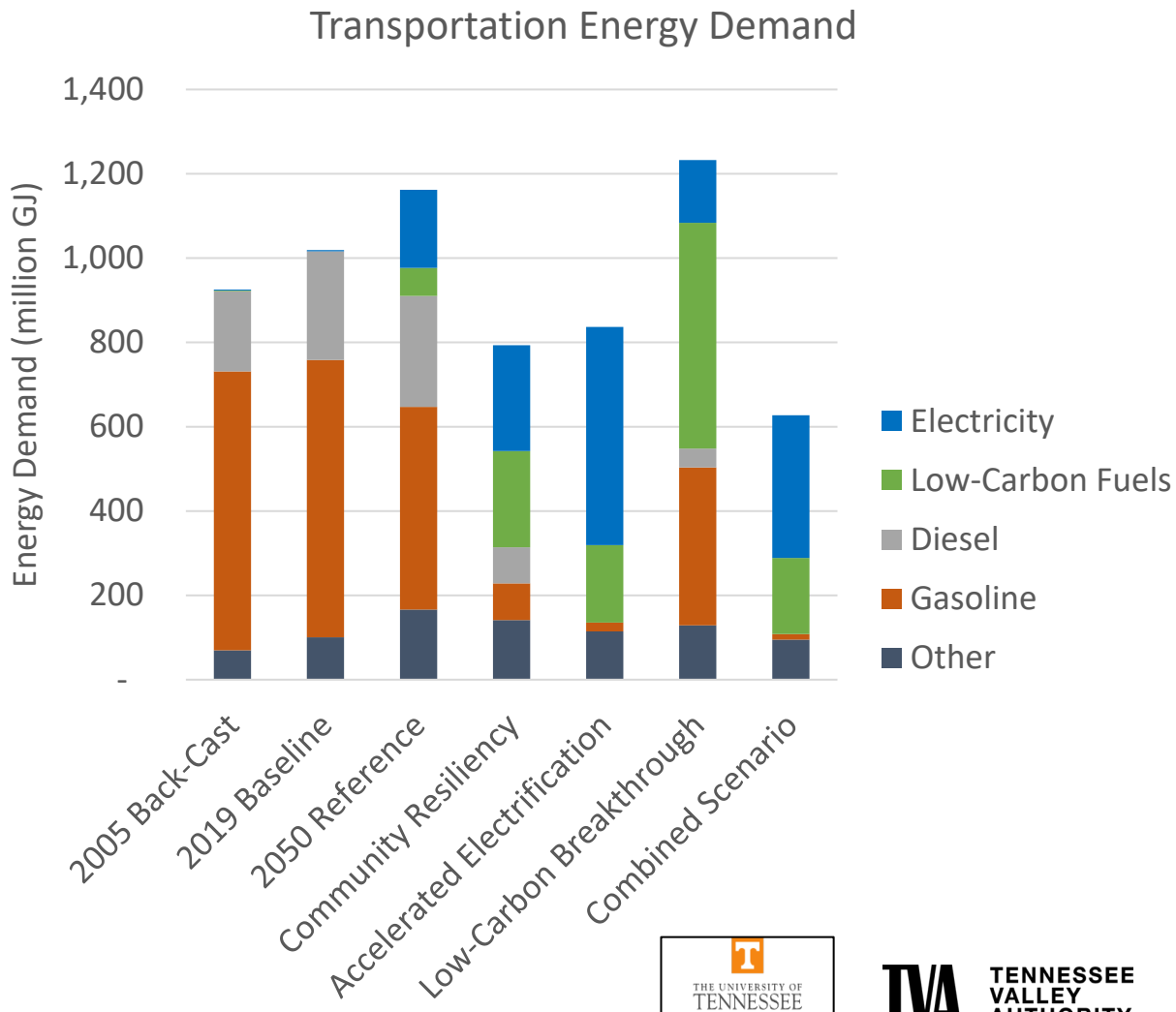
Buildings, Electrification & Load-Growth

- The Valley has high electric HVAC penetration in residential and commercial buildings.
- This limits opportunity in residential and commercial buildings.
- “TVA-preferred” heat pumps can reduce electricity demands by >50%, save hundreds of dollars per month, and ease peak demand.
- Key energy efficiency measures for buildings can limit new electricity demands for buildings – especially in comparison to load growth to meet electric vehicle needs.



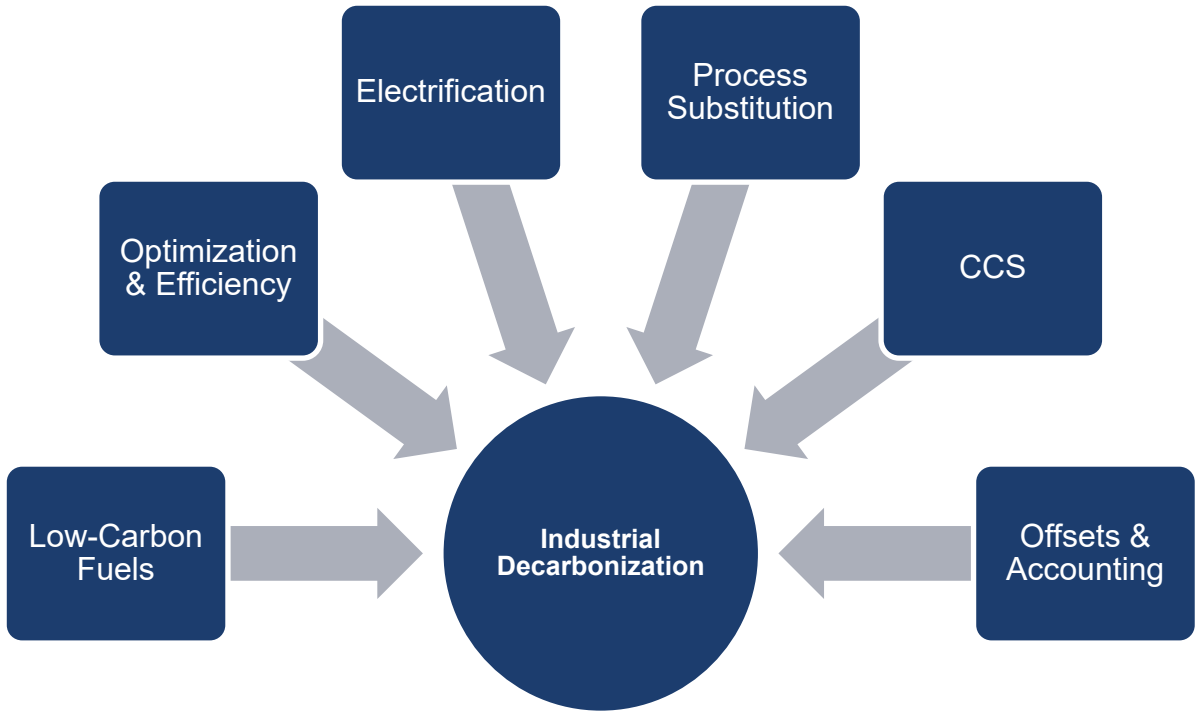
Transportation Sector Decarbonization

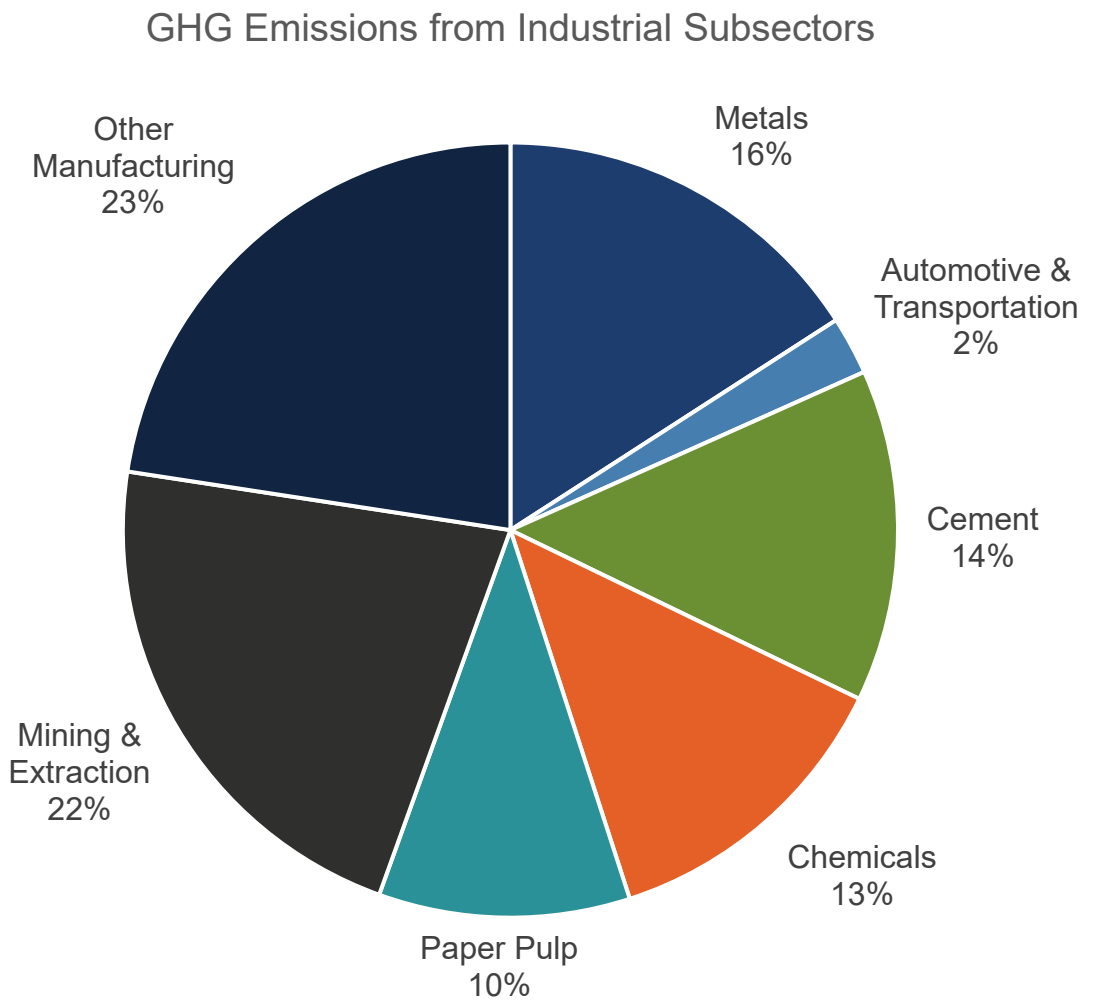
- Transportation emissions are largest source of emissions in baseline – and largest opportunity for reductions.
- Passenger vehicles represent majority of transportation emissions – about 25% of Valley-wide emissions.
- Electrification offers the largest emissions reductions opportunity, although reducing VMT can help to limit grid impacts.
- Low-carbon fuels will be important for non-passenger vehicle modes.



Industrial Decarbonization

- No single industrial sub-sector dominates the Valley.
- Accordingly, a range of solutions will be needed for industrial decarbonization.





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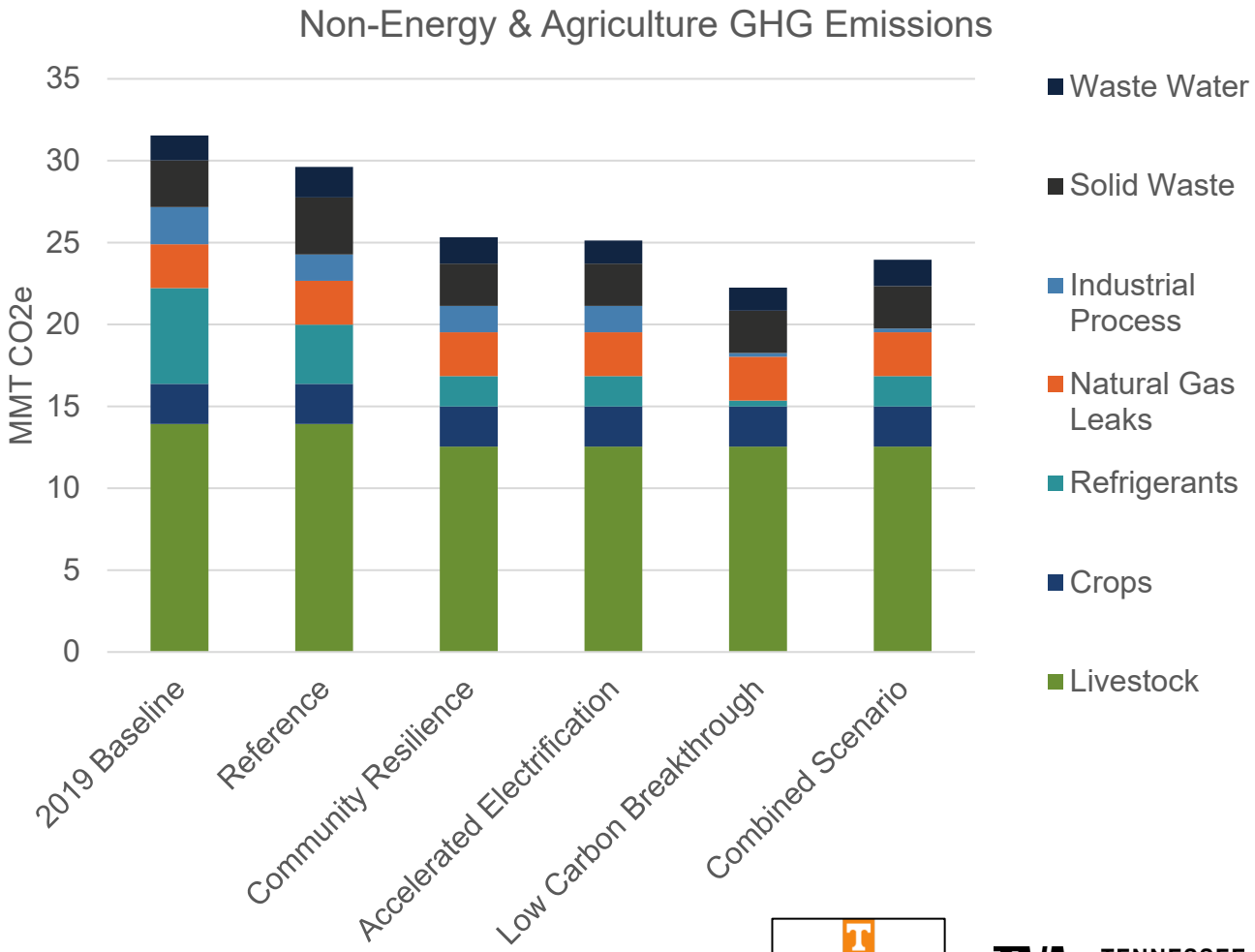
Non-Energy & Agriculture Emissions

- Non-energy sector is relatively small today, but the most difficult to decarbonize.
- Sector accounts for about 25% of 2005 emissions, but about 50% of 2050 emissions.
- Phase-out of HFCs (refrigerants) drives majority of reductions.
- Farming practices are already mostly no-till, limiting further opportunities to abate emissions from cropland.
- Limited opportunities to reduce emissions from livestock (and human) effluence.



Foundations of a Clean, Competitive Economy Critical Actions

The pathways modeling conducted in this study highlight several critical actions and transitions that will be core building blocks for a Net Zero economy.

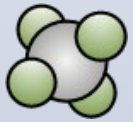
Electric Vehicles

Electrifying light-duty vehicles is the single largest GHG reduction opportunity in the valley.

Efficient Homes

High-efficiency heat pumps can abate GHGs, reduce utility bills, and relieve stress on the grid.

Low-Carbon Fuels



Research and investments into low-carbon fuels can unlock deep reductions for aviation, trucks, and industry.

2050-Ready Communities

Integrated planning can drive sustainable growth and enable low-carbon transportation.

Education & Innovation

Support every facet of a Net Zero economy, from workforce training to R&D for carbon capture.

Progress in Action & Stakeholder Priorities

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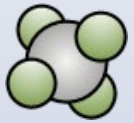
Barriers & Opportunities for Foundational Actions

Foundational activities face critical barriers but highlight key areas where concerted action or investment could unlock new progress.

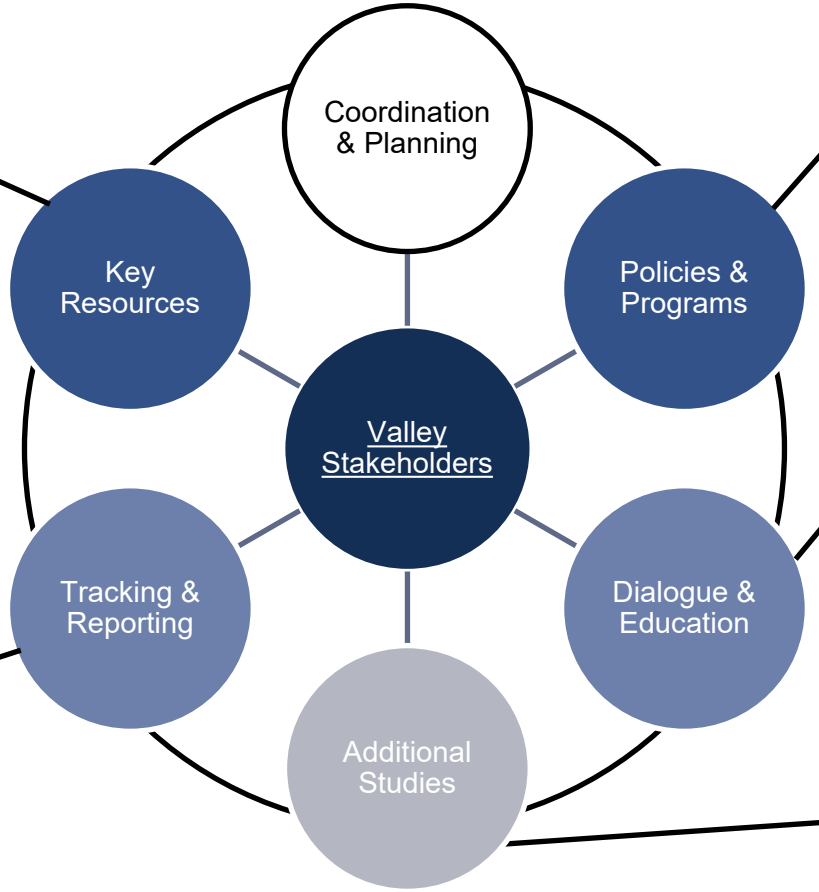
	Electric Vehicles	Efficient Homes	Low-Carbon Fuels	2050-Ready Communities	Education & Innovation
Foundation					
Challenge	Lack of charging infrastructure	Capital costs of new equipment	Production scale and cost	Resource constraints	Accessibility and pipeline.
Solution	More charging infrastructure	New incentives to shift household economics	R&D, pilots for early movers.	Flexible funding and technical assistance	Engagement with key actors.

Stakeholder Priorities for Longer-Term Action

The final stakeholder meeting of this phase of VPS focused on actions already underway throughout the Valley. Stakeholders have identified lack of a central authority to coordinate myriad actors as a key gap in achieving Net Zero

Holocene

CEO of a start-up housed by the UT Spark Center's incubator program spoke on their work to commercial direct-air capture technology.



State & Local Initiatives

Representatives from TN and the city of Memphis showcased ongoing and future climate action programs, especially those leveraging Inflation Reduction Act funding.

UT Center for Grasslands Mgmt

Stakeholder from the TN Farm Bureau brought in a colleague from UT to showcase new research on livestock emissions.

TVA Federal Funding PMO

TVA personnel presented on tracking federal grant awards and outcomes, especially TN BEEP (Bus Electrification, Education and Planning) partnership.

2024 Update to the Billion Ton Study

A senior research at Oak Ridge National Lab discussed their update to the DOE's flagship "Billion Ton Study" report, focusing on the potential for sustainable bioenergy production in the US.

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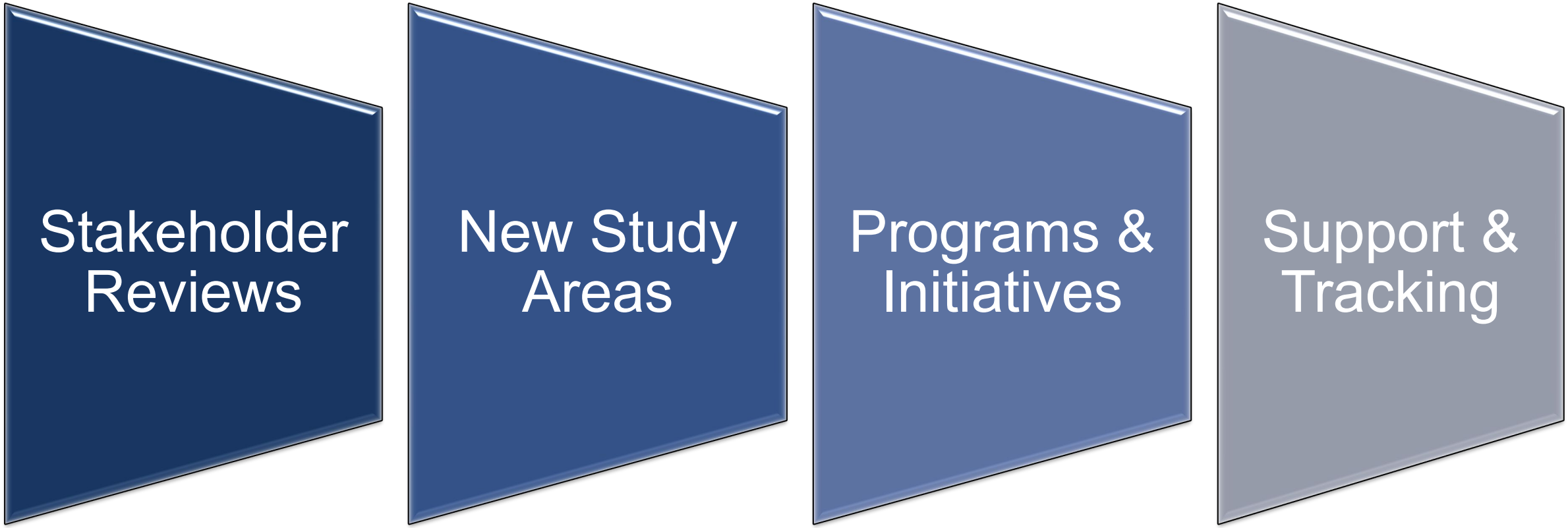
Next Steps: Information Sharing & Path Forward



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Summary

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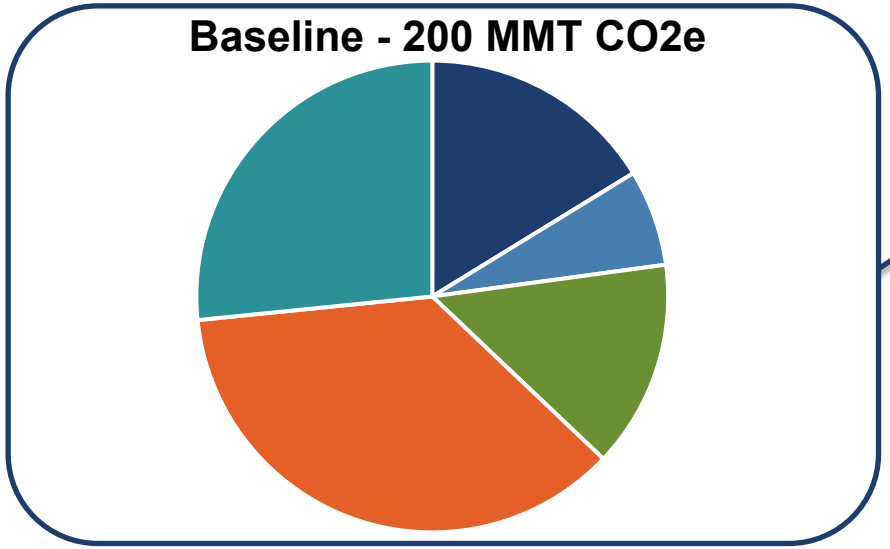
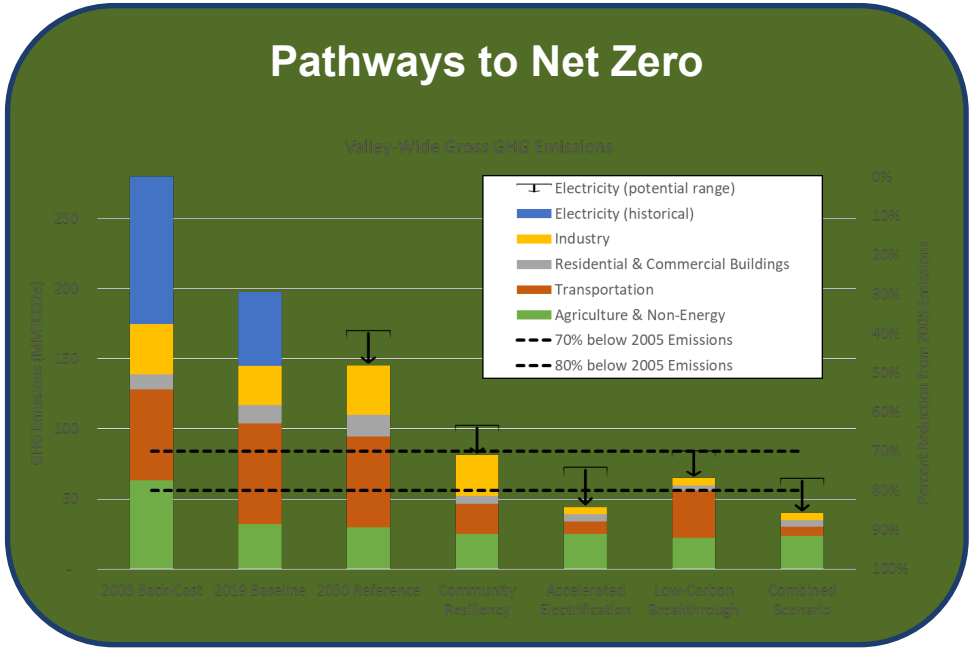
Valley Pathways Study





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Valley Pathways Initiative

- Publish Preliminary Findings Report
- Public Webinar
- Stakeholder Information Sharing & Feedback
- Opportunities to grow programs and initiatives aligned with critical actions
- A Competitive, Clean Economy

Questions?

Advice Questions Discussion

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Introduction for Advice Questions

TVA is a clean energy leader and committed to reducing carbon emissions and supporting a thriving clean energy economy. The University of Tennessee Baker School for Public Policy and Public Affairs integrates natural, physical, and social science to understand human-technology interactions in energy systems.

TVA and the Baker School formed a partnership to conduct a first of its kind study for the Tennessee Valley region, recognizing that a collaborative, economy-wide effort is needed to achieve net-zero emissions Valley-wide by 2050.

Preliminary findings of the Study show significant progress in reducing emissions in the electricity sector and agriculture sectors (approximately 50% for each since 2005) which has resulted in a 30% economy-wide reduction across the region.

The Study's preliminary findings identified critical components needed to build a competitive, clean economy. These are actions that should be taken now and align with many programs and initiatives already supported by a diverse group of stakeholders in the Valley, including TVA.

These programs and initiatives include an economic development focus on EV manufacturing, charging infrastructure deployment, supporting companies' sustainability goals, a research and development focus on innovative technology assets, investments in energy efficiency, and natural resources initiatives.

Advice Questions

1. What feedback or suggestions, including additional analysis, do you have to ensure the Valley Pathways Initiative moves toward actionable results?

2. Are there certain types of programs or initiatives in your communities that have been effective in encouraging greenhouse gas emission reductions and that the Valley Pathways Initiative should consider coordinating with in the future?

3. How can the Valley Pathways Initiative encourage focus on partnerships and investments in innovative technologies?

LUNCH BREAK

Meeting resumes at 1:30 PM EST

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Public Comment

This is a listening session; responses are typically not provided

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Thank You

See Chat for link to go to either RERC or RRSC room for Finalizing the Advice Statement Discussion

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FAC Meeting Requirements

Jennifer Brundige, Attorney, TVA General Counsel Office

Cliff Beach, Assistant General Counsel, TVA General Counsel Office

January 18, 2024

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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

Finalize Advice Statement

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Go to Original Meeting Link

for reading of the Final Advice Statements

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Welcome

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RERC
Advice Statement

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RRSC
Advice Statement

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Closing Remarks

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