



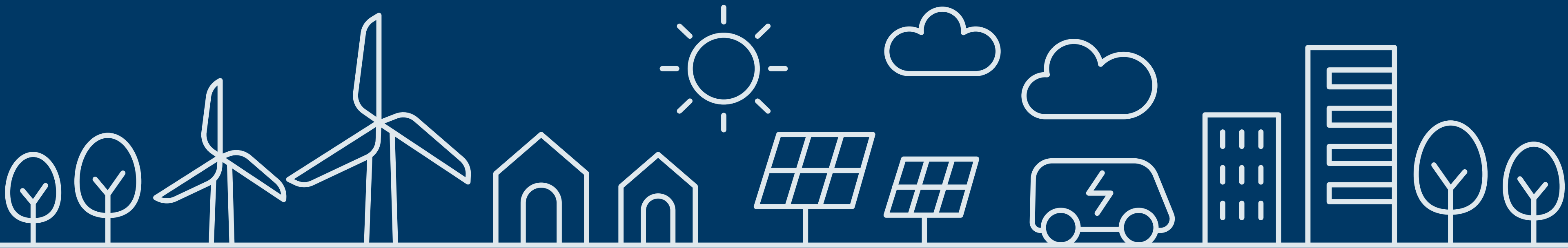
GREAT PLAINS
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Texas Carbon Management Roadmap

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The Texas Opportunity

Why Texas?

Scale & Expertise

Largest share of US industrial and energy-related emissions, Class VI primacy

Infrastructure Advantage

Extensive pipelines, refineries, and industrial hubs.

Geologic Capacity

Ideal formations for CO₂ storage and utilization.

Innovation Leadership

Home to first commercial carbon capture, DAC, and low-carbon hydrogen projects.

Economic Opportunity

Storage

Hundreds of millions of metric tons of CO₂ could be captured and stored by midcentury.

Investment and jobs

Billions in investment and tens of thousands of jobs in construction, operations, and supply chains.

Domestic and export markets

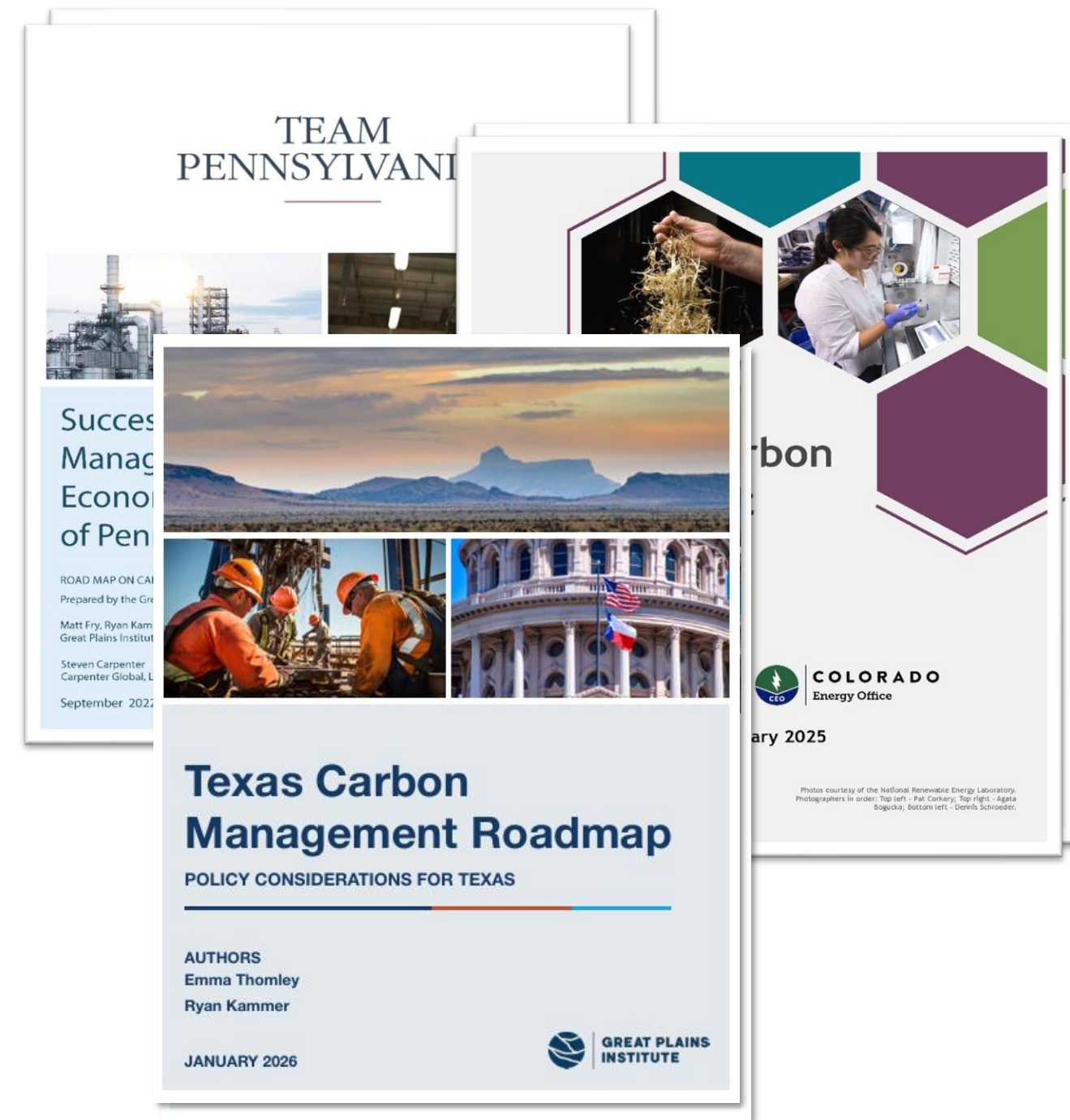
Strengthens Texas's position in low-emissions fuels and industrial products for domestic and export markets.



Roadmap Background & Approach

With support from the **Cynthia and George Mitchell Foundation**, the Texas Carbon Management Roadmap seeks to provide a detailed analysis of carbon management policy and deployment opportunities in Texas.

GPI prioritized local stakeholder feedback in developing the Texas Roadmap, while utilizing GPI's national background in policy.



Stakeholder Engagement

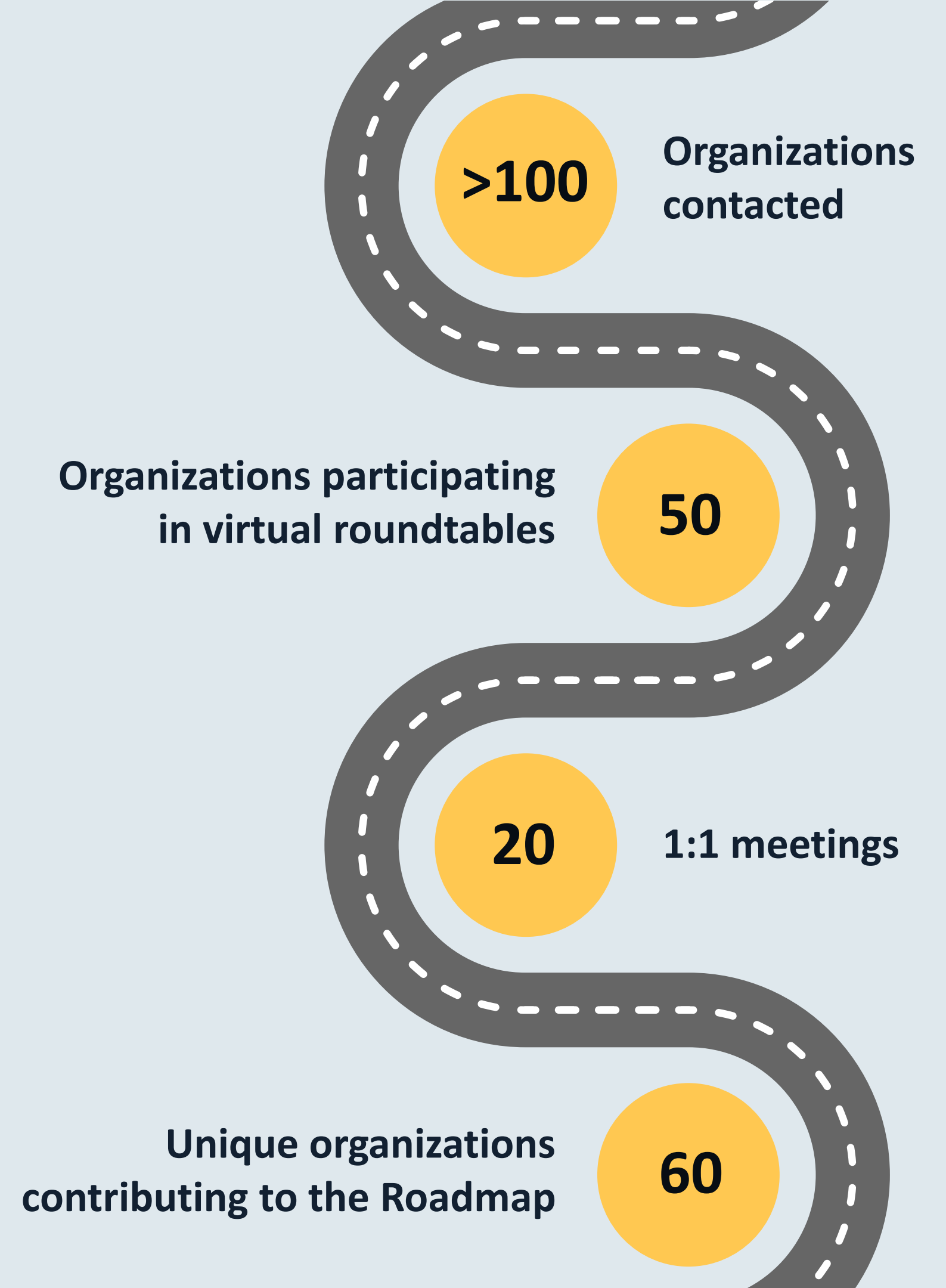
Timeline: Late 2024 – October 2025

Engaged

- Industry representatives
- State agency staff
- Academic and legal experts
- Environmental NGOs and community representatives

Review: 6-week review period

Released: January 2026



Roadmap Format

Each section includes:



**General overview
of the technology
and opportunity**



**History and
operations in
Texas**

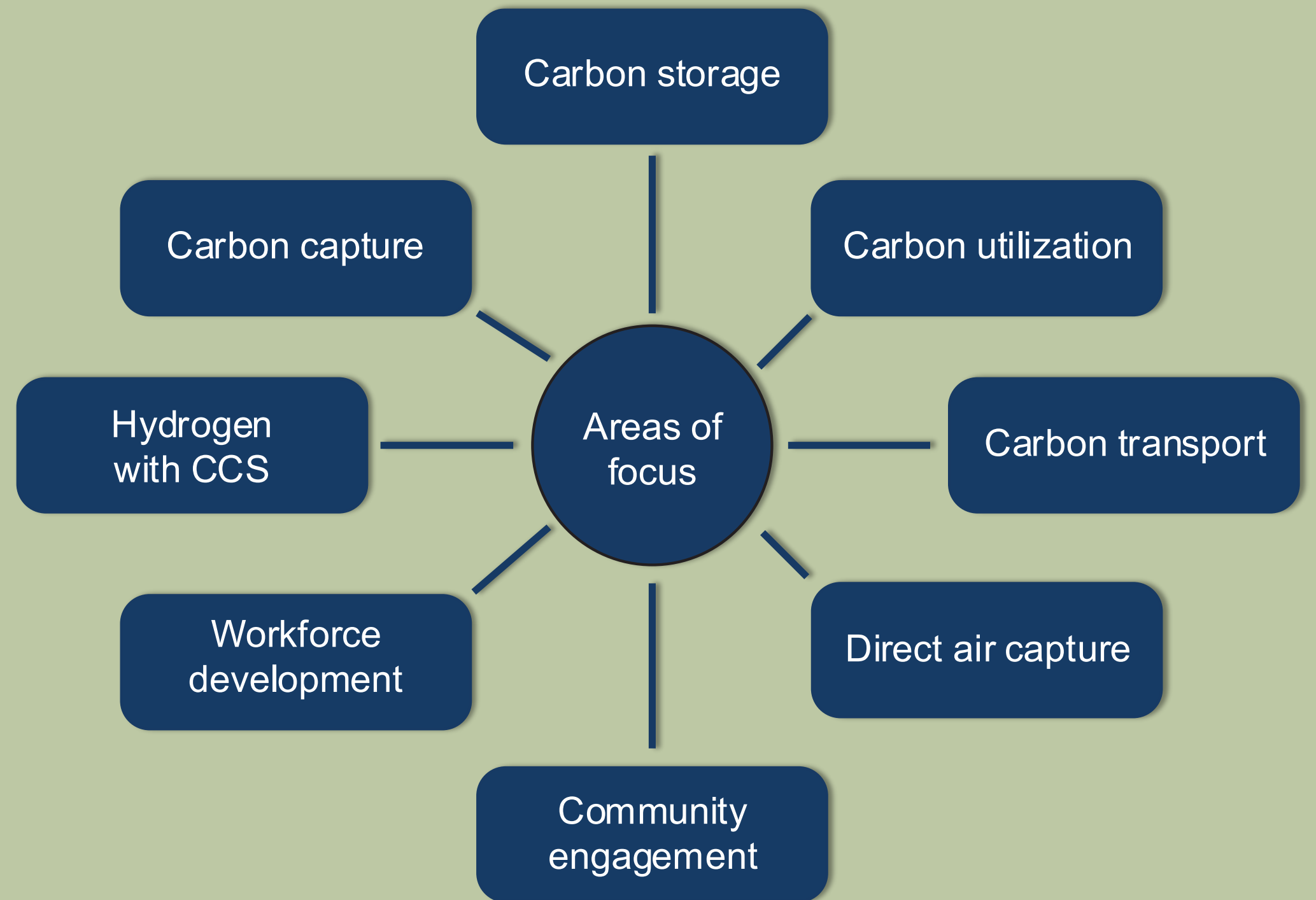


**Recommendations to
advance opportunities
in Texas**



Roadmap

Grounded in stakeholder feedback, the Texas Roadmap highlights 50 recommendations on a variety of topics related to carbon management.



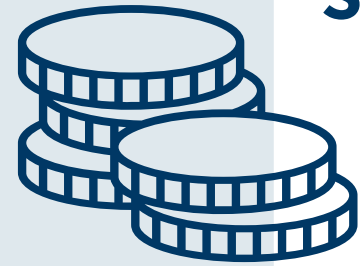
Key Recommendation: Carbon Management Policy Council

“The Roadmap recommends establishing a Texas Carbon Management Policy Council (the Council) to support this effort and guide implementation of the Texas Roadmap's recommendations.

The Council would identify near-term opportunities and policy priorities, and coordinate policy and regulatory discussions to ensure that Texas remains competitive and responsive to technological innovation, market developments, and evolving federal policy and incentives.”



Key Recommendation: Carbon Management Policy Council



Strengthen economic competitiveness

- Evaluate the potential role of natural gas with carbon capture as a clean firm power resource
- Commission comprehensive economic studies
- Convene TX Hydrogen Production Policy Council to advance international export opportunities



Ensure permitting certainty and readiness CO₂ storage

- Monitor Class VI funding and staffing
- Clarify permitting timelines for Class VI well permits
- Consider a framework for establishing long-term CO₂ storage liability transfer



Build public confidence through safety and transparency

- Monitor the need for Seismic Response Areas (SRAs) for Class VI wells
- Develop a centralized user-friendly online carbon management hub with safety information
- Support the incorporation of recommended pipeline safety best practices from standard-developing organizations



Example category: carbon capture

Federal alignment

- Support continued federal investment in Section 45Q tax credit for carbon oxide sequestration
- Advocate for federal regulatory clarity on permitting requirements for carbon capture retrofits

State incentives

- Modernize and expand state incentives
- Create state grant and revolving loan programs for carbon management projects

Market readiness

- Commission comprehensive carbon management economic studies
- Support the development of a voluntary, technology-neutral Energy Attribute Certificate (EAC) framework that can incorporate CCS

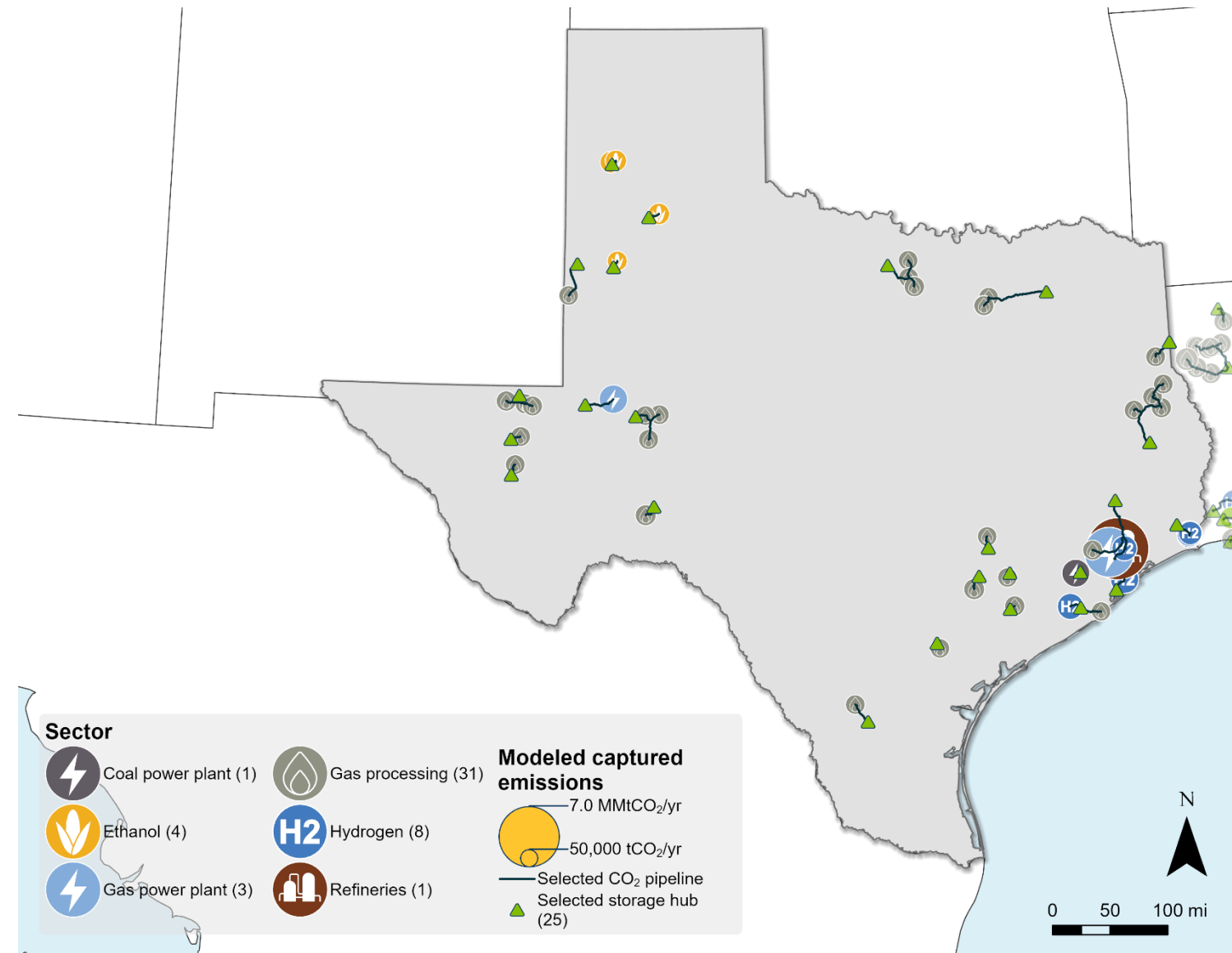
State planning and regulatory capacity

- Ensure carbon management is integrated into the state's long-term regional water resource planning
- Statewide study on air pollutant reductions and health co-benefits from carbon capture, including methods to mitigate amine degradation potential
- Monitor air, waste, and water permitting capacity at TCEQ
- Evaluate the potential role of natural gas with carbon capture as a clean firm power resource in future planning and modeling efforts

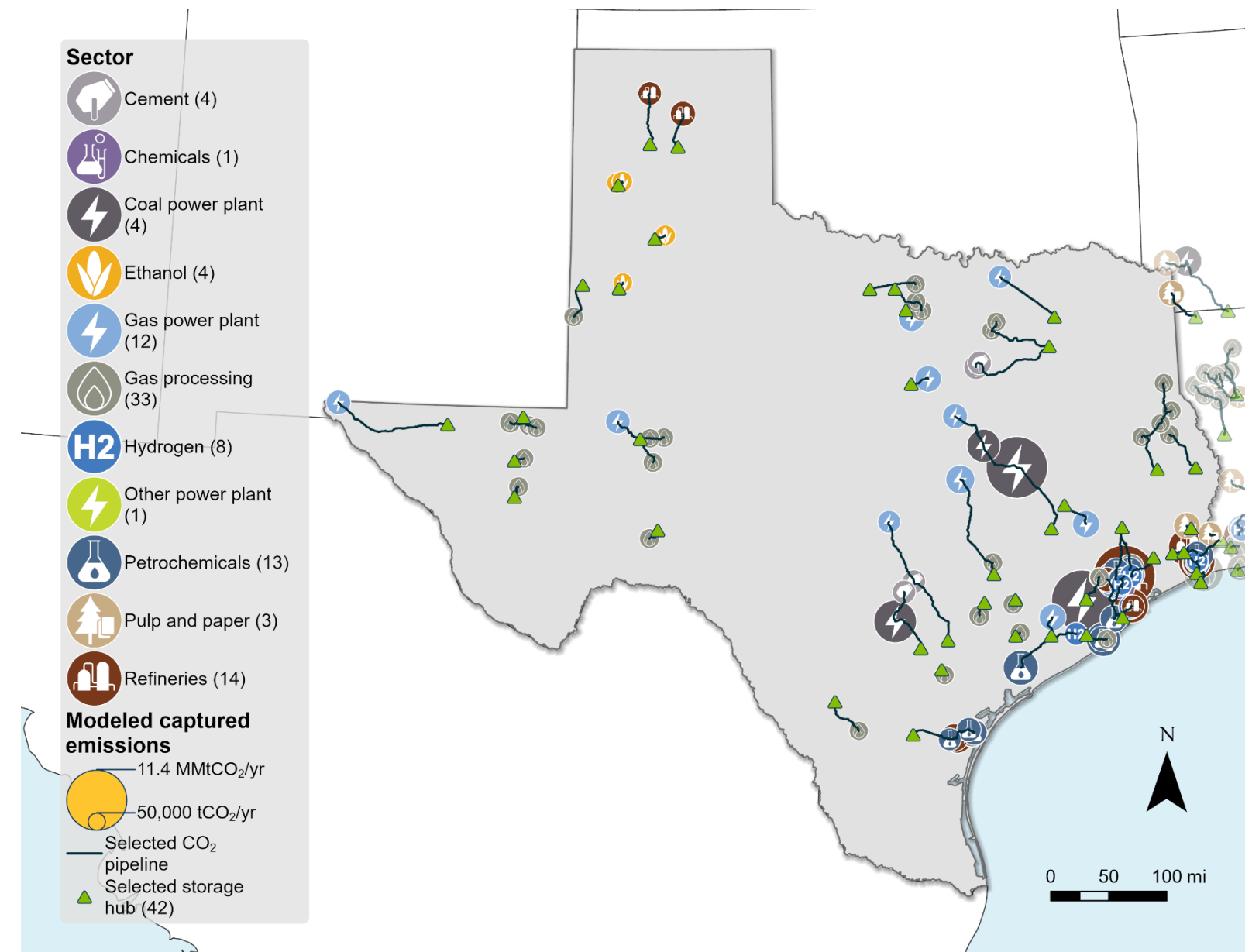


Deployment scenarios

Near-term



Midcentury



	Near-Term Scenario	Midcentury Scenario
Capture facilities (Amount captured MMtCO ₂ /yr)	48 (29.3)	97 (161.8)
Miles of pipeline (km)	650 (1,050)	1,960 (3,150)
Storage hubs selected	25	42

Near-term and midcentury deployment scenario modeled results included in the Texas Carbon Management Roadmap.

What's Next?

We're actively exploring opportunities to use the Roadmap as a foundation for further education with key stakeholders in Texas, particularly in preparation for the 2027 Legislative Session.

Where do you see the most momentum, need for education, or uncertainty around carbon management policy in Texas?

Get involved by reaching out to me at ethomley@gpisd.net.

