

AzCaNE | CENTER FOR AN ARIZONA CARBON-NEUTRAL ECONOMY

Clean Fuels Development in the Southwest and Related Topics

ROUNDTABLE AGENDA 23 SEPTEMBER 2025

Short Round the Room Introductions

Name, Company, Where you sit in the value chain

Discussion Topic:

*Tapping Our Immense Organic Waste Resource
to Advance Climate, Clean Air and Clean Energy*

Led by Matt Tomich, President, Energy Vision

Roundtable Prompts

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In the spirit of **co-opetition**, the Industry Roundtable aims to build community and establish a shared understanding of challenges, opportunities, gaps, and needs for a **commercially viable clean hydrogen economy in the Southwest** and related means to achieve deep decarbonization

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Roundtable Prompts:

Prompt 1

How might Arizona best take advantage of its organic waste streams—landfills, farms, wastewater—to reduce methane utilization and emissions and create local economic value?

Prompt 2

Energy Vision emphasizes RNG as a near-term, proven tool. How do we balance deploying these ready solutions with keeping an eye on emerging, longer-term technologies?

Prompt 3

Heavy duty fleet decarbonization is highlighted as a big use case. What opportunities or barriers do you see for these vehicles in Arizona to adopt RNG compared with other clean fuel options, such as hydrogen?





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**Discussion Lead: Matt Tomich,
President, Energy Vision**

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SHINE...

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Energy Vision

*Tapping Our Immense Organic Waste Resource
to Advance Climate, Clean Air and Clean Energy*



- **AZCaNE Monthly Roundtable**
Sept 23, 2025
- *Matt Tomich, President
Energy Vision*

Who We Are

- Independent 501(c)(3) advancing cost-effective solutions for a carbon-neutral economy
 - Focus: preventing methane from decaying food & farm waste; advancing RNG/biogas solutions
 - Workstreams: research & reports, education, advisory, convenings

What We Do

- Research & reports that guide public/private decision-makers
- Workshops & convenings (Power of Waste series) across North America & abroad
- Education & outreach on organic-waste-to-fuel strategies, and methane avoidance potential
- Advisory support for agencies, cities, fleet operators, industry and investors

Why Focus on Methane/RNG?

- Renewable Natural Gas (RNG, biomethane) captures methane from organic waste (food, farm, wastewater)
- Upgraded biogas (RNG/biomethane) is pipeline-ready; lowers lifecycle GHGs vs fossil gas/diesel while putting captured methane to use
- Use cases: heavy-duty trucking, transit buses, buildings/industry (policy-dependent), and emerging global markets (marine/aviation)

Energy Vision's Role

- Independent resource linking technology, policy & economics of anaerobic digestion
- Research and convenings catalyzing programs, fleet transitions and policy progress
- Focus on near-term methane reductions with scalable, commercially proven tools while keeping an eye on emerging technologies/strategies

Recent Original Research

- *Leading with Landfills* — methane reduction potential & advanced technology roadmap
- *A Path to a Healthier America: Ditching Old Diesel Trucks* — clean-fuels comparison
- *Meeting the Methane Challenge* — prioritizing anaerobic digestion to hit 2030 global methane targets
- *Can Your Wastewater Plant Do More?* — primer for communities on RNG production
- *Putting New York's Organic Waste to Work* — AD as a state climate tool
- *The Refuse Revolution (2021)* — non-petroleum options for municipal/solid-waste fleets
- *Ending the Diesel Era* — strategy for cleaner NYC truck fleets

Workshops & Convenings

- 25+ regional workshops since 2012 (LA, Sacramento, Portland, Seattle, DC, Vermont, NYC, Phoenix, Toronto, Johannesburg)
- Power of Waste: RNG for California (multi-year series)
- Partnerships with Clean Cities coalitions, state/federal agencies (DOE, EPA, NYSERDA), NGOs and industry leaders
- Many programs/projects initiated through these convenings

Research Driven Advisory

- *Gotham Gas Goes Green* — NYC DEP wastewater biogas & co-digestion potential; NYC is now planning additional “gas-to-grid” projects
- *Port of Seattle* — advisory effort that led to first US airport procurement of RNG
- *Annual RNG Database* – collaboration with Argonne National Lab since 2016
- Community primers & step-by-step project guides for municipalities

Education & Communications

- Fact sheets & primers (RNG basics, sector-specific summaries)
- Newsletters and public webinars with agency/industry partners
- Commentary/op-eds in mainstream/trade publications (including pieces in *NYTimes*, *Politico*, *The Hill*)
- Profiles of innovative projects, policies and programs

Leadership Awards & Events

- Annual Energy Vision Leadership Awards (multi-year tradition; 19th annual award event in NYC on Oct 16, 2025)
 - Recognizes trailblazers advancing methane capture and other clean-fuel solutions
 - Expands publicity and our cross-sector network to accelerate project deployment

Looking Ahead: Strategic Focus

- Scale methane mitigation from landfills, farms & wastewater via AD/RNG
- Support equitable heavy-duty fleet (on-road and beyond) decarbonization where air quality gains are urgent
- Advance practical policy & procurement pathways enabling greater economic viability of “waste to value” and methane capture projects

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Thank you for your participation

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