



PLEASE TAKE YOUR SEAT

**The program is about to begin.
Session 1: Re-Energize Corporate Action**



AGENDA

View the full day agenda online by scanning the QR code >>



It's Time to Re-Energize

Sept 24, 2024


RMI | **CLIMATE
WEEK
NYC**



**Our Mission:
Transforming the global energy system to
secure a clean, prosperous, zero-carbon
future for all.**



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- 8:45-10:15 a.m.** SESSION 1: Opening Remarks & Re-Energize Corporate Action
- 10:15-10:45 a.m.** –BREAK–
- 10:45-11:45 a.m.** SESSION 2: Re-Energize Efforts to Slash Methane
- 11:45-12:30 p.m.** –LUNCH–
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- 1:30-2:00 p.m.** –BREAK–
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Opening Remarks





Jon Creyts

CEO, RMI



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Sumant Sinha

Chairman and CEO, ReNew



RESOURCE: India at 2047

Please use this QR code to access RMI's report "India at 2047: A Vision for Energy Independence in the Mobility Sector"





Sumant Sinha

Chairman and CEO, ReNew





Catherine Coleman Flowers

Founder

Center for Rural Enterprise and Environmental Justice



SESSION 1

Re-Energize Corporate Action

8:45-10:15 a.m.





For the last 40 years,
RMI has been
helping the world's
largest companies
overcome their
biggest challenges
across the energy
transition.

“If it wasn't hard, RMI
wouldn't be doing it.

—CHRISTIANA FIGUERES,
Former Executive Secretary to the UN
Framework Convention on Climate Change



WHAT
MAKES RMI
DIFFERENT?

Thought Leaders

We apply rigorous data, research, and analysis on technology, economics, and policy.

On-the-ground Implementers

We're focused on getting the job done; we enable companies to design, procure, and execute on scalable, high-impact projects.

Market Shapers

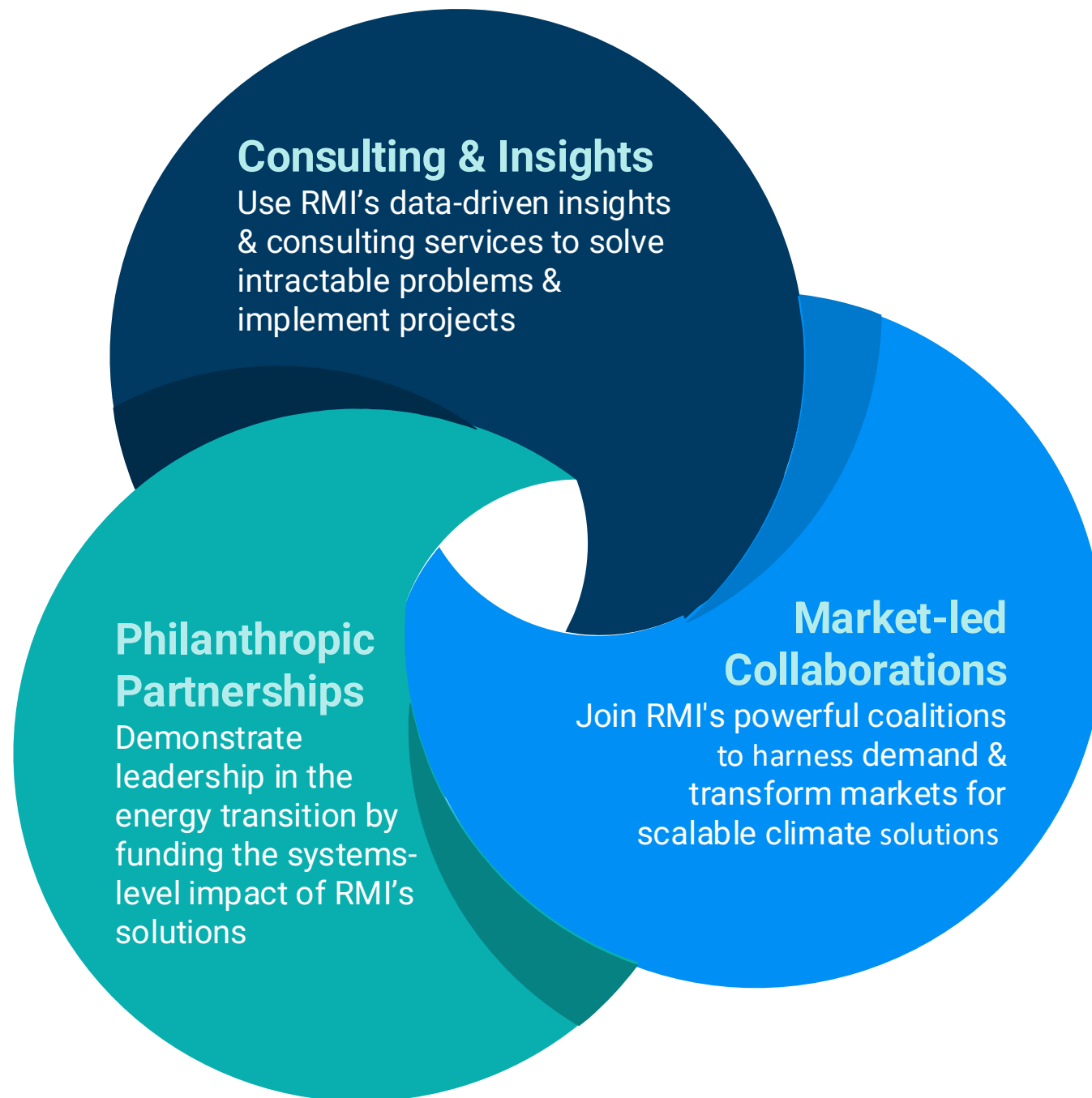
We advance market solutions to aggregate demand, initiate supply growth, and incubate new market affiliates and influencers.

Systems Thinkers

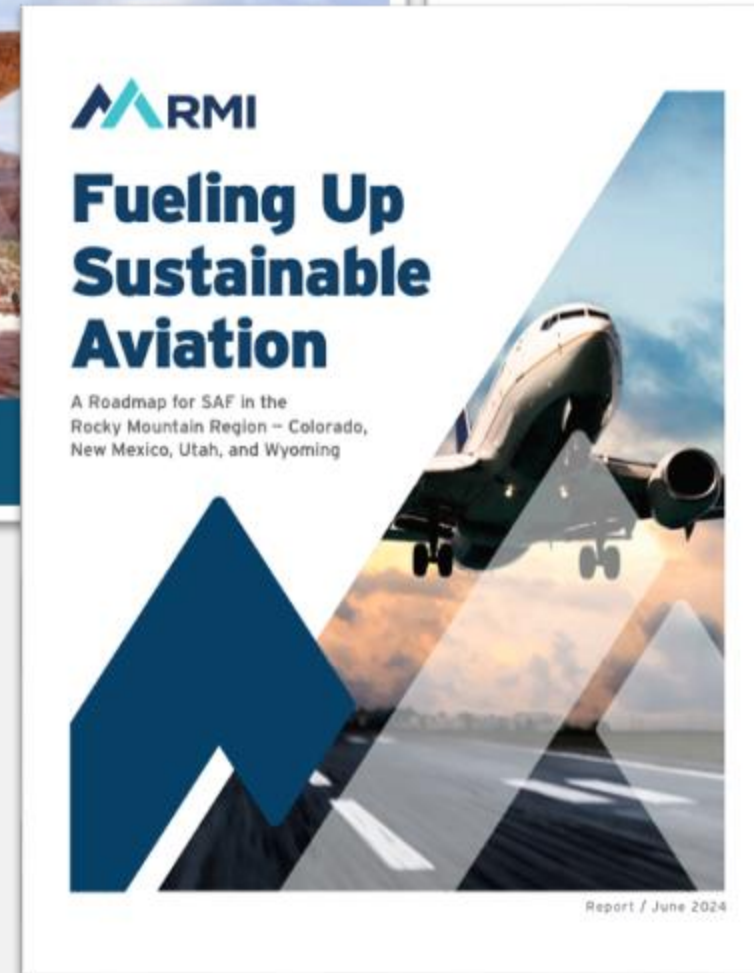
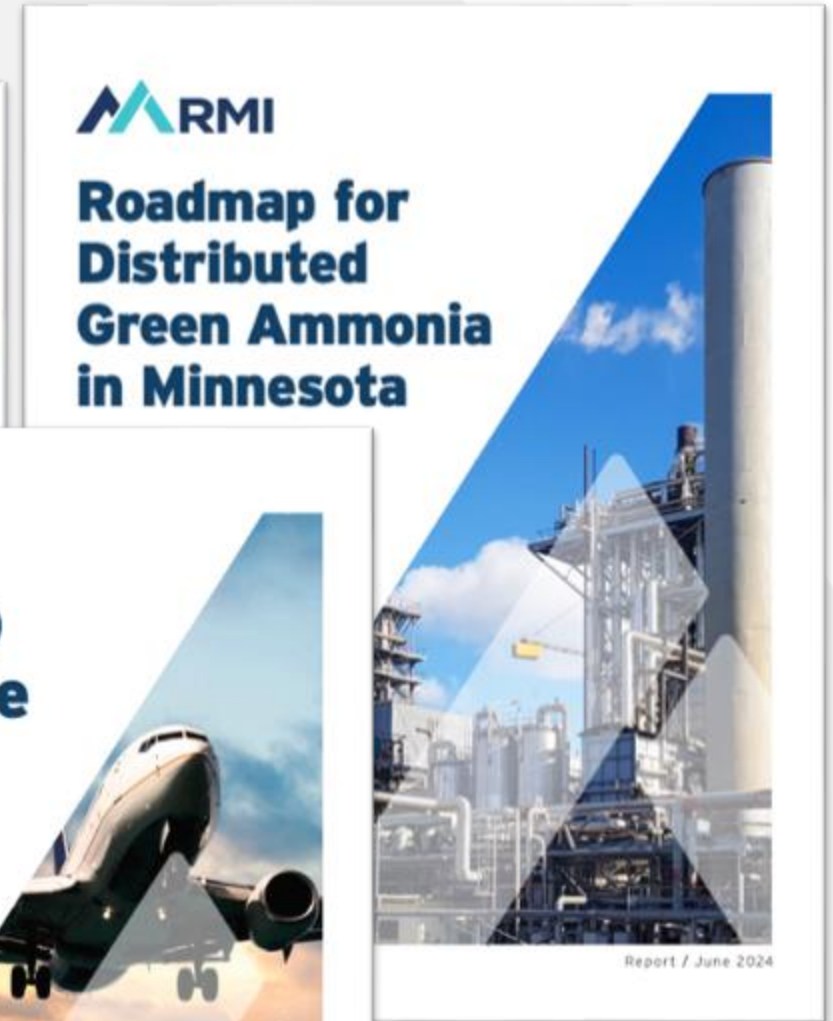
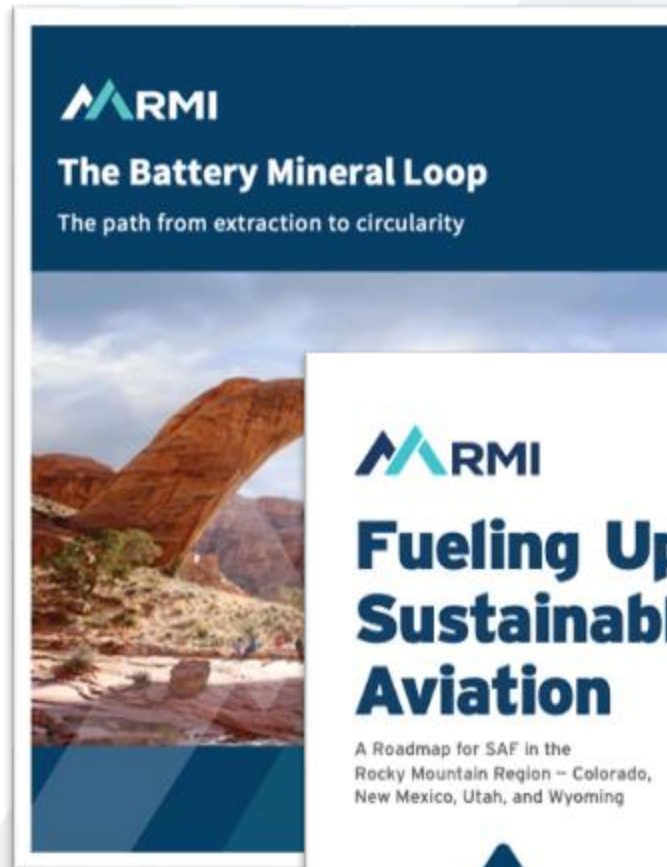
We design and implement systems-level interventions with diverse stakeholders to address the complexity and scale of the climate crisis.

Companies come to RMI to solve complex energy challenges.

Here's how companies can work with us:



Thought leadership that expands our sense of what's possible



Radical collaborations that move & shape markets

ZEROgrid.

SUSTAINABLE STEEL
BUYERS PLATFORM

THIRD ³
DERIVATIVE

Center ^{for}
Climate
Aligned
Finance

VP3
VIRTUAL POWER PLANT PARTNERSHIP

SABA
SUSTAINABLE AVIATION BUYERS ALLIANCE



**MISSION
POSSIBLE
PARTNERSHIP**



GREEN
HYDROGEN
CATAPULT

**Philanthropic
partnerships
that
accelerate
systems-
level change**



NEWS >> TRANSPORTATION >> FEDEX AND GENERAL MOTORS SUPPORT RMI RESEARCH TO ACCELERATE TRANSPORTATION...

FedEx and General Motors Support RMI Research to Accelerate Transportation Electrification

RMI has received philanthropic grants from FedEx and General Motors to accelerate the transition to a zero-carbon and equitable transportation future.



Chris Atkins

Director of Worldwide Operations
Sustainability
Amazon



Chats Gamage

Principal, Climate-Aligned
Industries
RMI





Caroline Winslow
Acceleration Strategy Manager
Third Derivative



Emma Stewart
Chief Sustainability Officer
Netflix



Erin Callahan
Corporate Engagement Director
RMI





Bonnie Lei

Principal for Carbon Markets Initiative

RMI



Meghan Edge

Head of Carbon Investments

Ripple



SURVEY: Session 1

Tell us what you think!

Please use this QR code to fill out our online survey for Session 1 – Re-Energize Corporate Action



30 minute break

10:15-10:45 a.m.

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Session 2:

Re-Energize Efforts to Slash Methane



SESSION 2: Re-Energize Efforts to Slash Methane

10:45-11:45 a.m.





Katie Leonberger
Bloomberg Philanthropies



MODERATOR



Sarah Smith
Global Methane Hub



Debbie Gordon
RMI



Dan Grossman
EDF



Riley Duren
Carbon Mapper



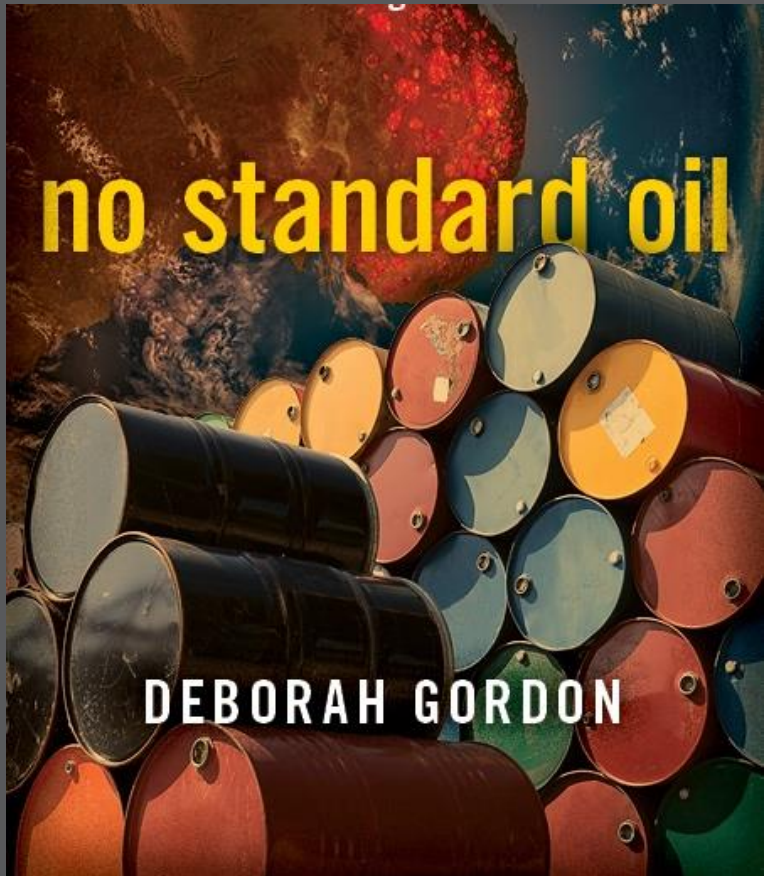


Debbie Gordon

RMI



Expanding the Oil Climate Index plus Gas (OCI+)



Share of global assets modeled:

5% oils (2015)

25% oils (2016)

50% oil & gas (2022)

70% oil & gas (2023)

100% oil & gas (2024)

Central finding:

**Equivalent barrels have
wide-ranging emissions intensities**

Using OCI+ to estimate GHGs from global assets

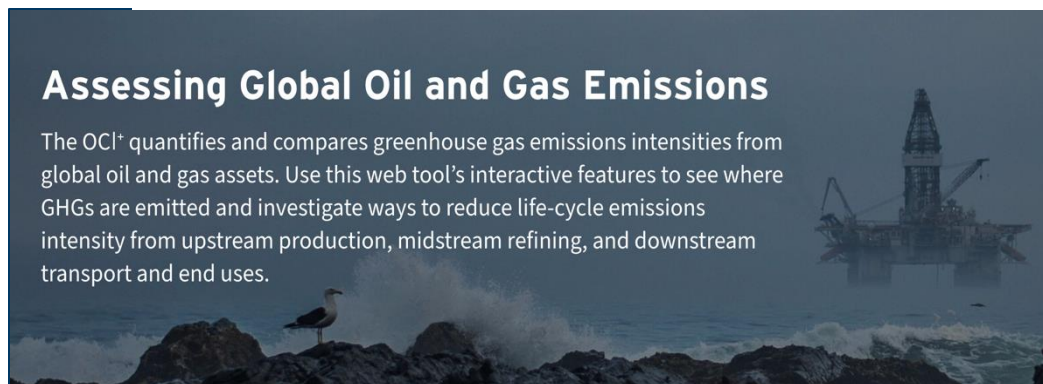
Models: Open-source, peer-reviewed, widely-used.

Inputs: Reservoir, operating, satellite data; field studies.

Finding: One-half O&G industry GHGs attributed to methane.



[Map](#) [Supply Chain](#) [Benchmark Crude](#) [Analysis](#) [Flaring Risk Map](#)

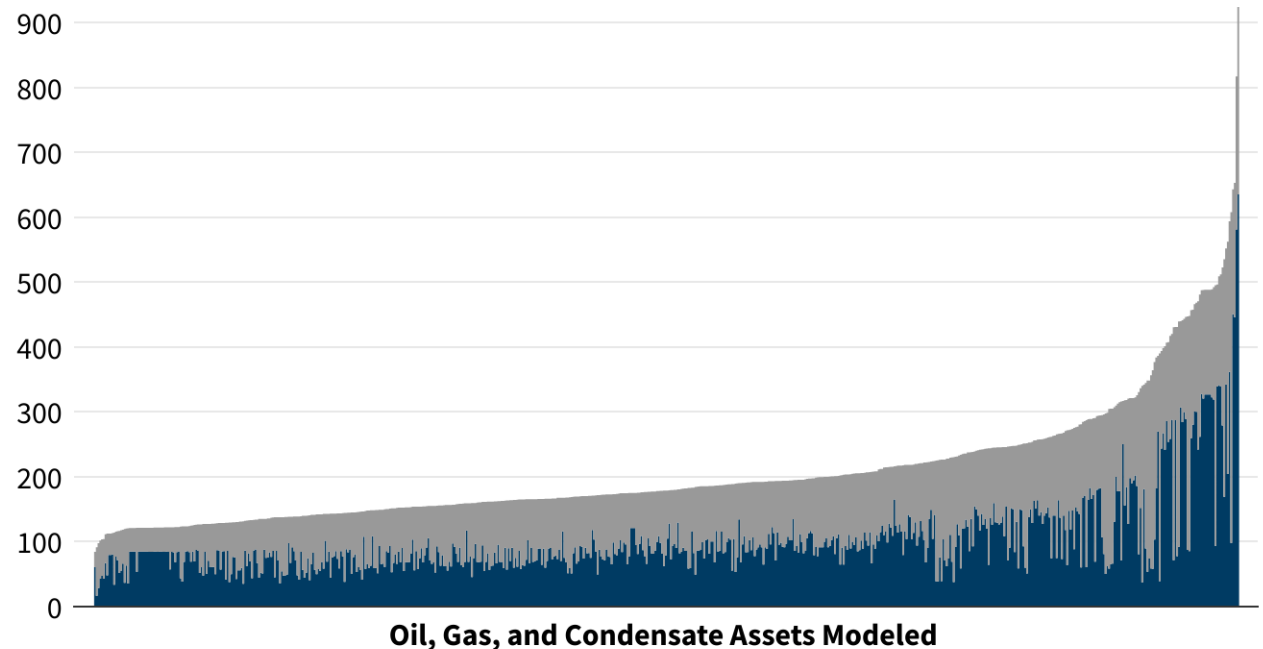


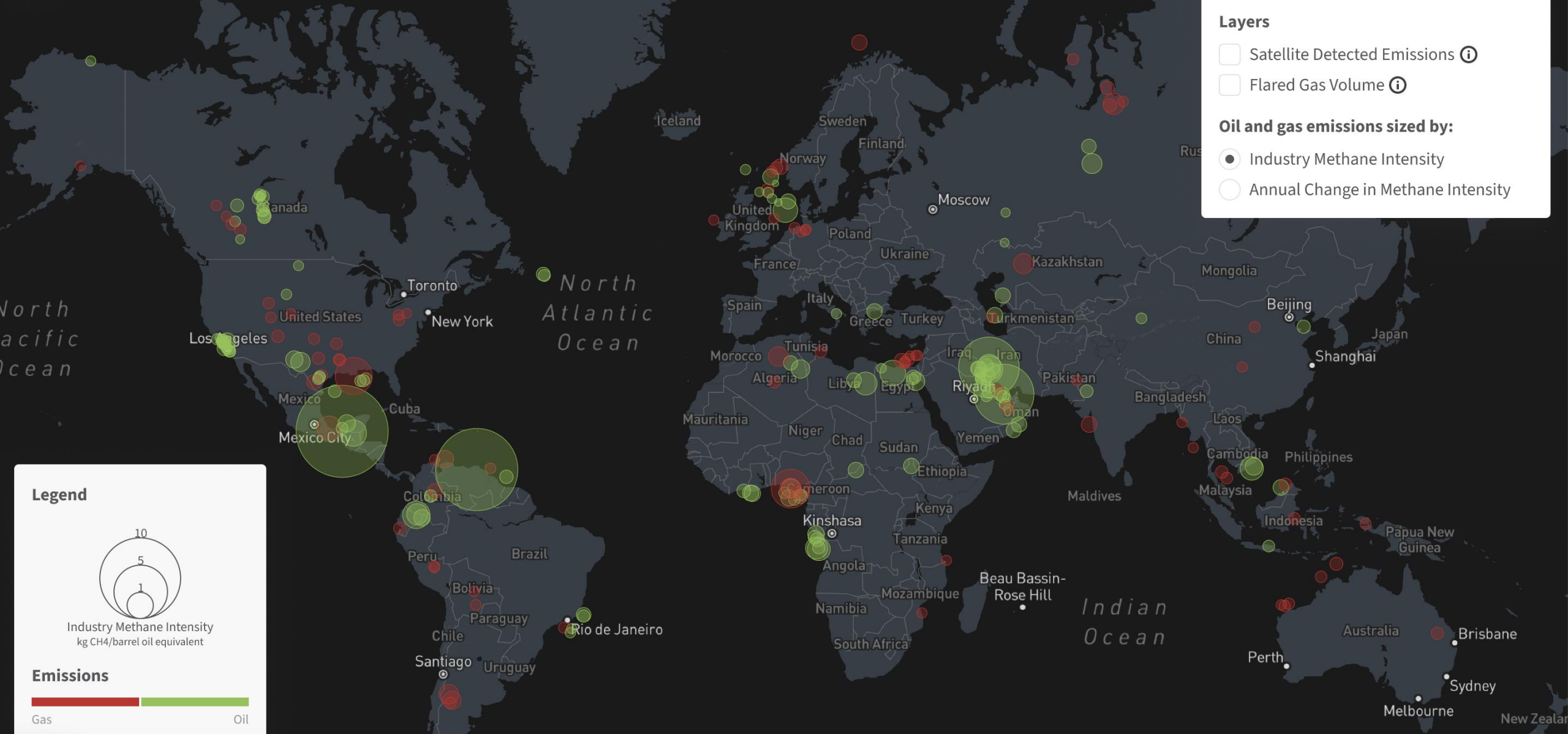
OCI+ web tool: <https://ociplus.rmi.org/>

Methane Plays a Large Role in Driving Industry Emissions

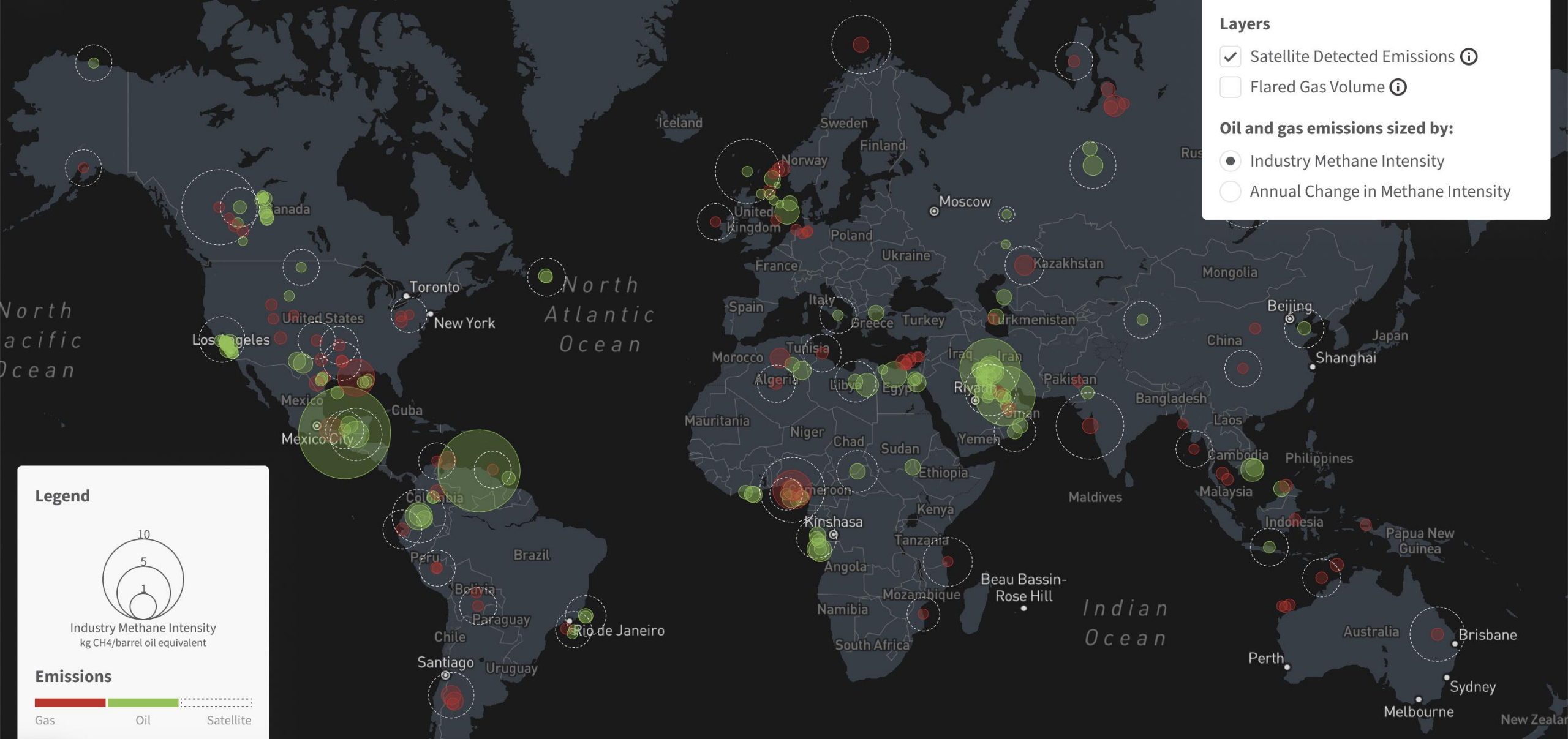
Emissions Intensity (kgCO₂e/boe)

■ Industry Methane Intensity ■ Industry Non-Methane Intensity





OCl+ methane intensity map (publicly-identified assets)



Methane intensity map with satellite data (mock-up)



Dan Grossman

EDF



MethaneSAT Overview

Driving Down Emissions Through Data and Action

Dan Grossman
Associate Vice President, Global Energy Transition
Environmental Defense Fund



MethaneSAT Partners

Funding	Science and Analytics	Technology and Hardware	Data, Software and Operations
Bezos Earth Fund	<ul style="list-style-type: none">• Smithsonian Astrophysical Observatory• Dr. Steve Wofsy, Harvard• Environmental Defense Fund	<ul style="list-style-type: none">• BAE Systems• Blue Canyon Technologies• IO Aerospace• Space X	<ul style="list-style-type: none">• Google• New Zealand Space Agency

A complementary ecosystem of methane-detecting satellites, each with distinct capabilities and purpose

Global mapping

*7,000 m x 5,500 m pixels
across 2,600 km swath

- ✓ Global & large-scale regions
- ✓ Large point sources

Area mapping

*130 m x 400 m pixels
across 220 km swath

- ✓ Regional sources
- ✓ Point sources
- ✓ Sector-wide quantification

Location mapping

*30 m x 30 m pixels
across 12-20 km swath

- ✓ Point sources
- ✓ Facility-level attribution



MethaneSAT will detect both high-emitting point sources and dispersed area sources, in turn quantifying total emissions – thus advancing the state-of-the-art and filling major data gaps globally.

Use Cases:

Enforceable Standards: US, Canada, Europe, Australia
Verify compliance, identify problem areas, basins and companies

Access to Major Markets: East Asia, Europe
CLEAN Initiative (Japan and Korea) and EU Import Requirements

Access to Capital:
Aligning investment policies with methane performance and
developing methane mitigation finance instruments

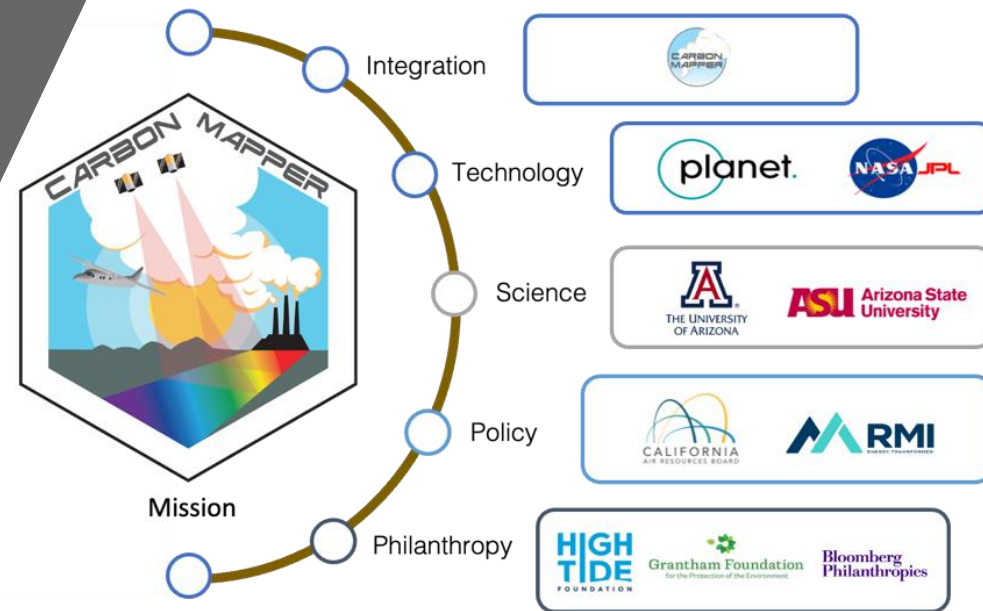


Riley Duren
Carbon Mapper



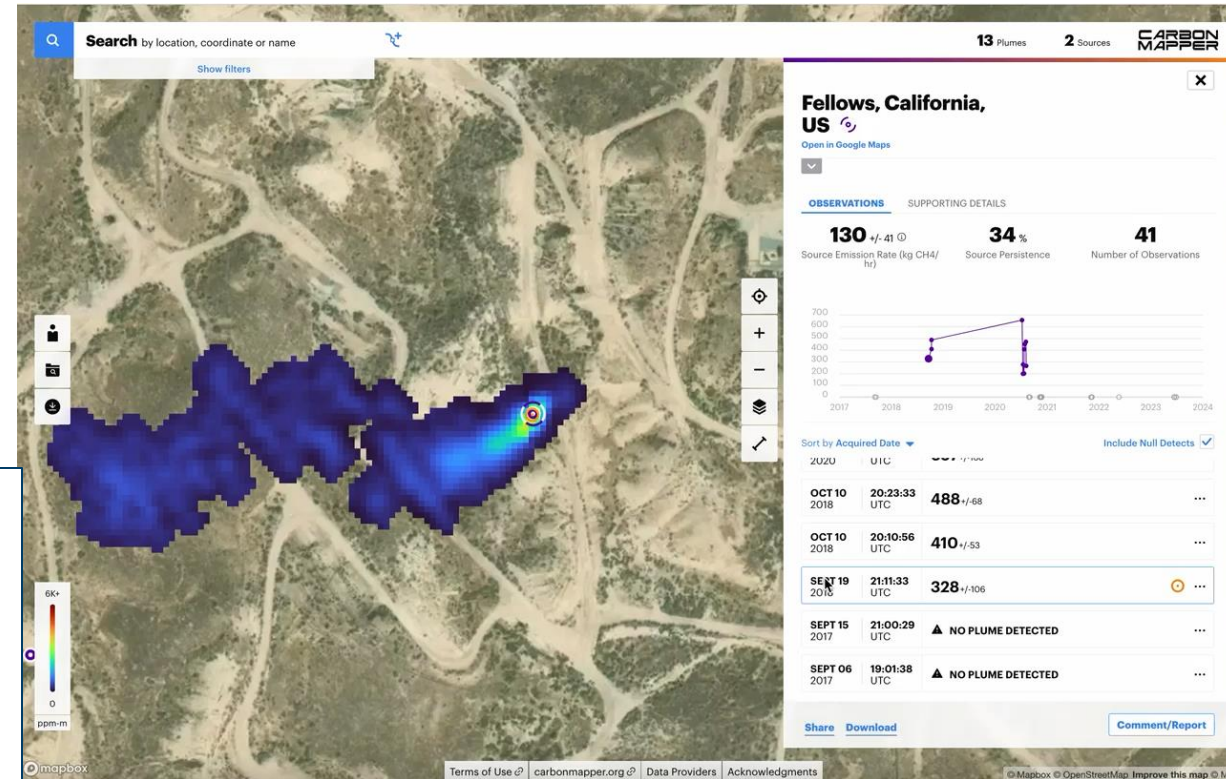
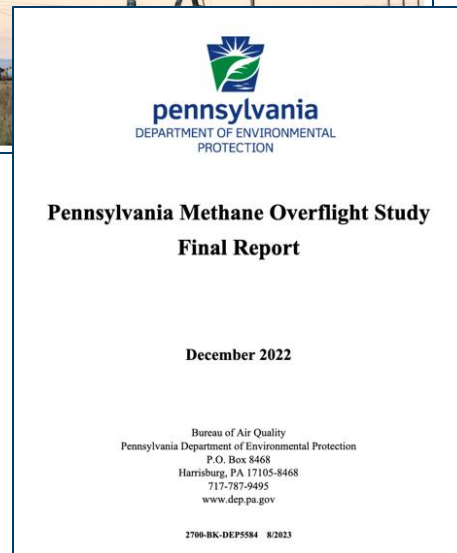
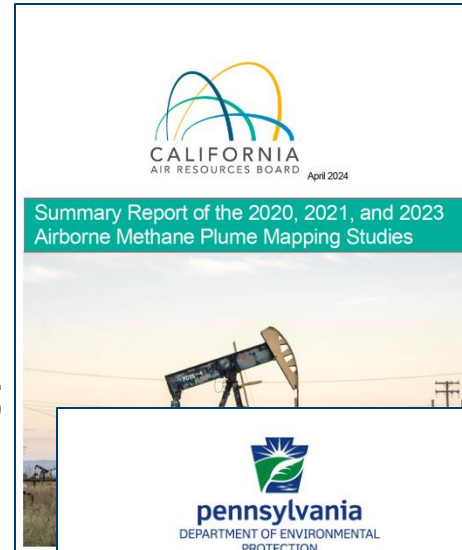
Carbon Mapper's Mission

- Carbon Mapper is a non-profit that delivers and translates actionable, localized CH₄ and CO₂ data
- Established multi-sensor data platform
- All CH₄ and CO₂ data is **public**
- Carbon Mapper also leads a public-private partnership to deploy CH₄/CO₂ satellites
- Phase 1: 2 satellites funded by philanthropy - first launched Aug 16
- Phase 2: goal to expand constellation to increase frequency & completeness
- Long-term goal: Track 90% of high emission CH₄ & CO₂ point sources



Active engagement can enable mitigation action

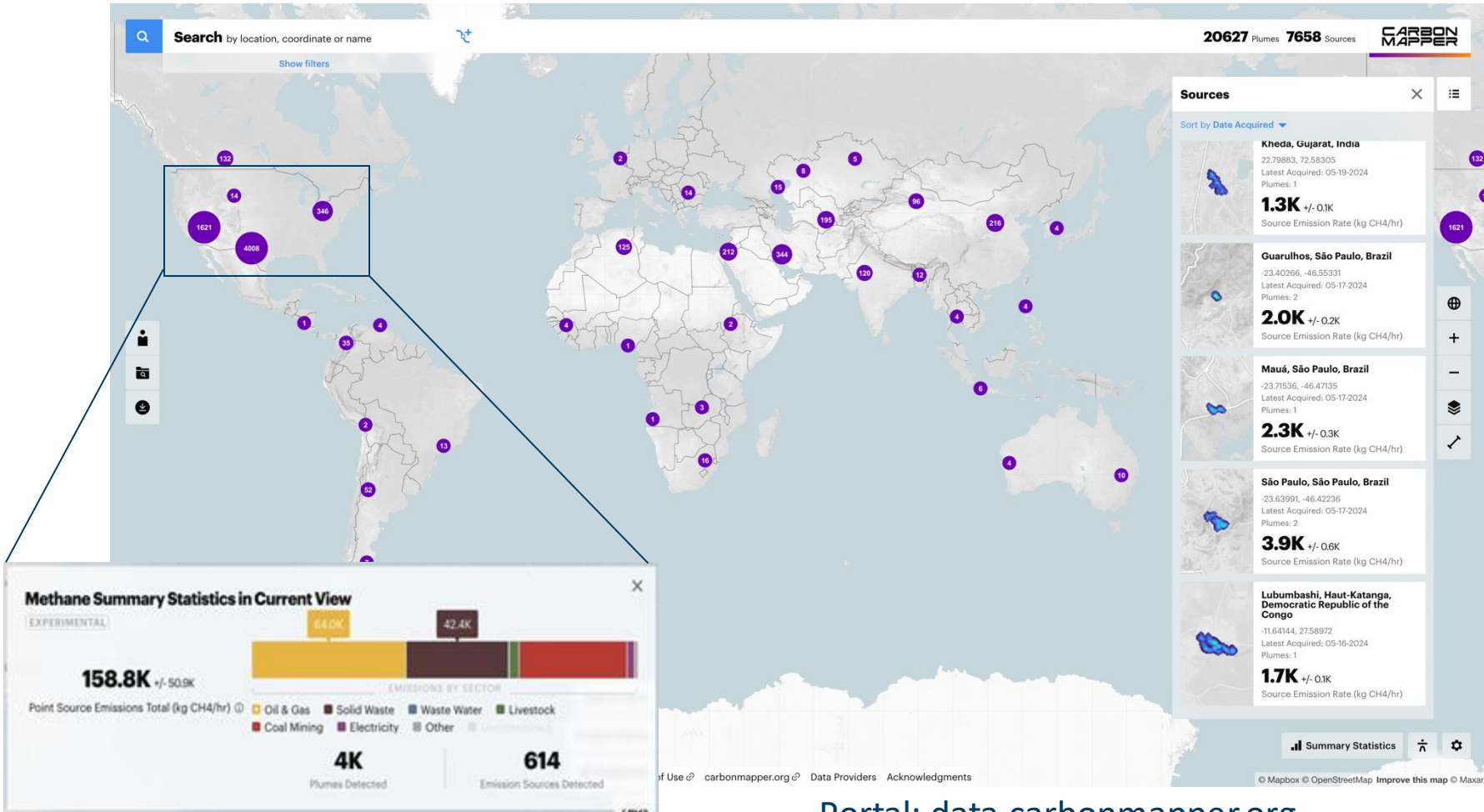
- ~10 mitigation collaborations with US regulators & operators since 2020
- Over 300 incident engagements (people talking to each other)
- Geolocation to within 30 meters; latency with hours to weeks
- Operator feedback: 40% of reported super-emitters previously unknown (leaks)
- Over 150 voluntary leak repairs
- Many verified with follow-up monitoring



3rd Party Reporting works when stakeholders are incentivized and engaged (looking for partners to expand internationally)



Data accessibility and transparency



- Now over 17,000 methane plumes and over 800 CO₂ plumes published - Airborne and EMIT - will grow with satellites!
- Improved plume visualizations
- Trend emission rates over time - and verify leak repairs
- Summary statistics for regional and sector-specific insights
- User-specified areas of interest
- Public API access

Portal: data.carbonmapper.org

API: api.carbonmapper.org



MODERATOR



Sarah Smith
Global Methane Hub



Debbie Gordon
RMI



Dan Grossman
EDF



Riley Duren
Carbon Mapper



TESTIMONIAL



Maria-Olivia Torcea
Bloomberg New Energy Finance (BNEF)



Comments from:

**Manfredi Caltagirone,
United Nations Environmental Program**



TESTIMONIAL



Carl Pope
Bloomberg Philanthropies





**Thank
You**

SURVEY: Session 2

Tell us what you think!

Please use this QR code to fill out our online survey for Session 2: Re-Energize Efforts to Slash Methane



LUNCH

11:45 a.m.-12:30 p.m.

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Session 3

12:30-1:30 p.m.

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Session 3:

Re-Energize Communities



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SESSION 3: Re-Energize Communities

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MODERATOR



Amena Saiyid
Washington D.C Correspondent
Cipher
CipherNews.com



Jonathan Smith
Senior Chief Deputy Director
Michigan Department of Labor
and Economic Opportunity



Bryan Fisher
Managing Director
RMI

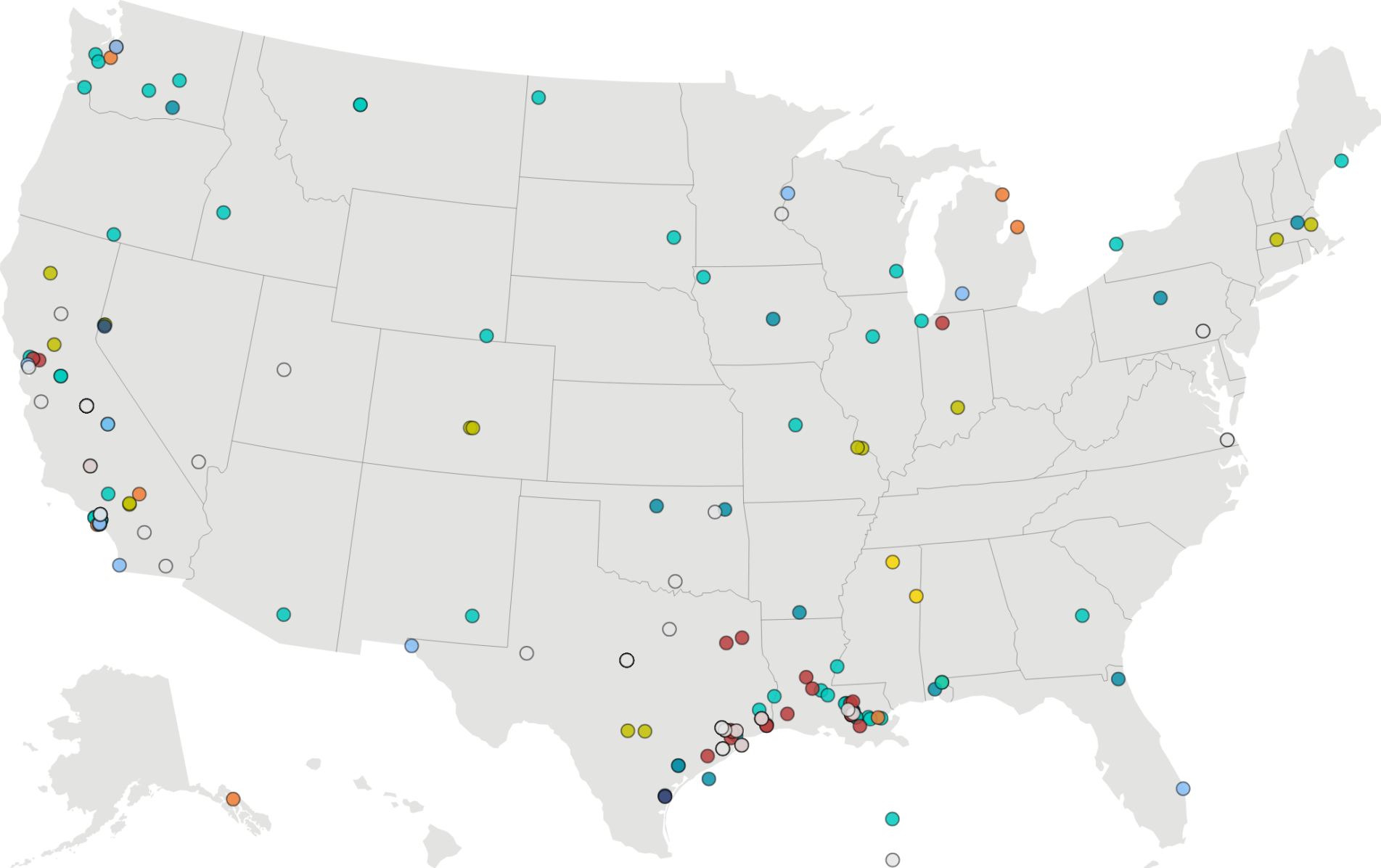


Jacob Corvidae
Senior Principal
RMI



Announced Clean Industrial Projects in the United States

Aluminium Ammonia Aviation Cement Other Chemicals Shipping Steel Trucking



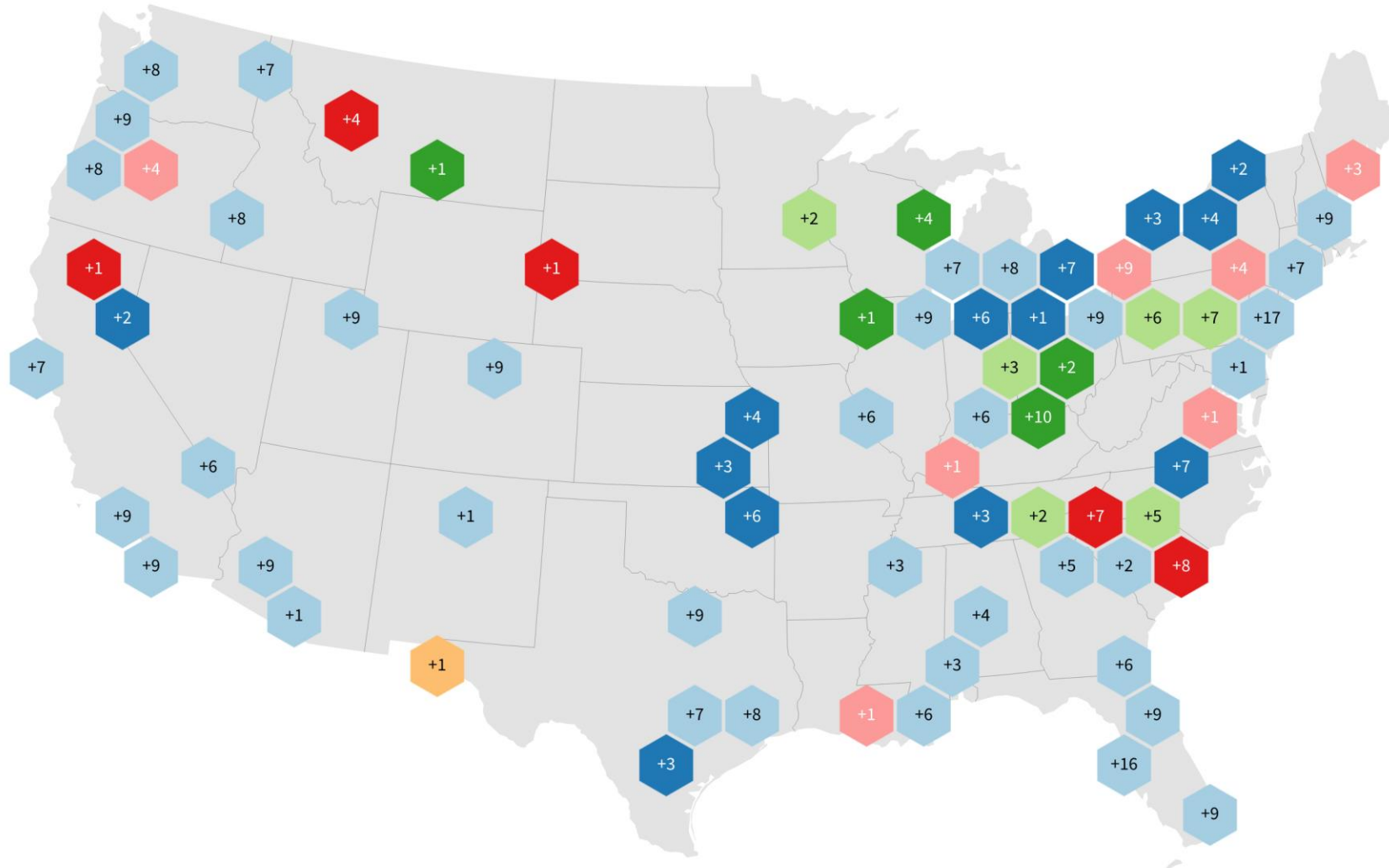
Source: MPP and RMI

Where in the United States could cleantech manufacturing thrive?

This map highlights the regions that score in the top 25% in feasibility (at or above the 75th percentile) for different clean energy manufacturing industries as categorized in the Clean Growth Tool, out of 179 Economic Areas (EAs) considered nationally.

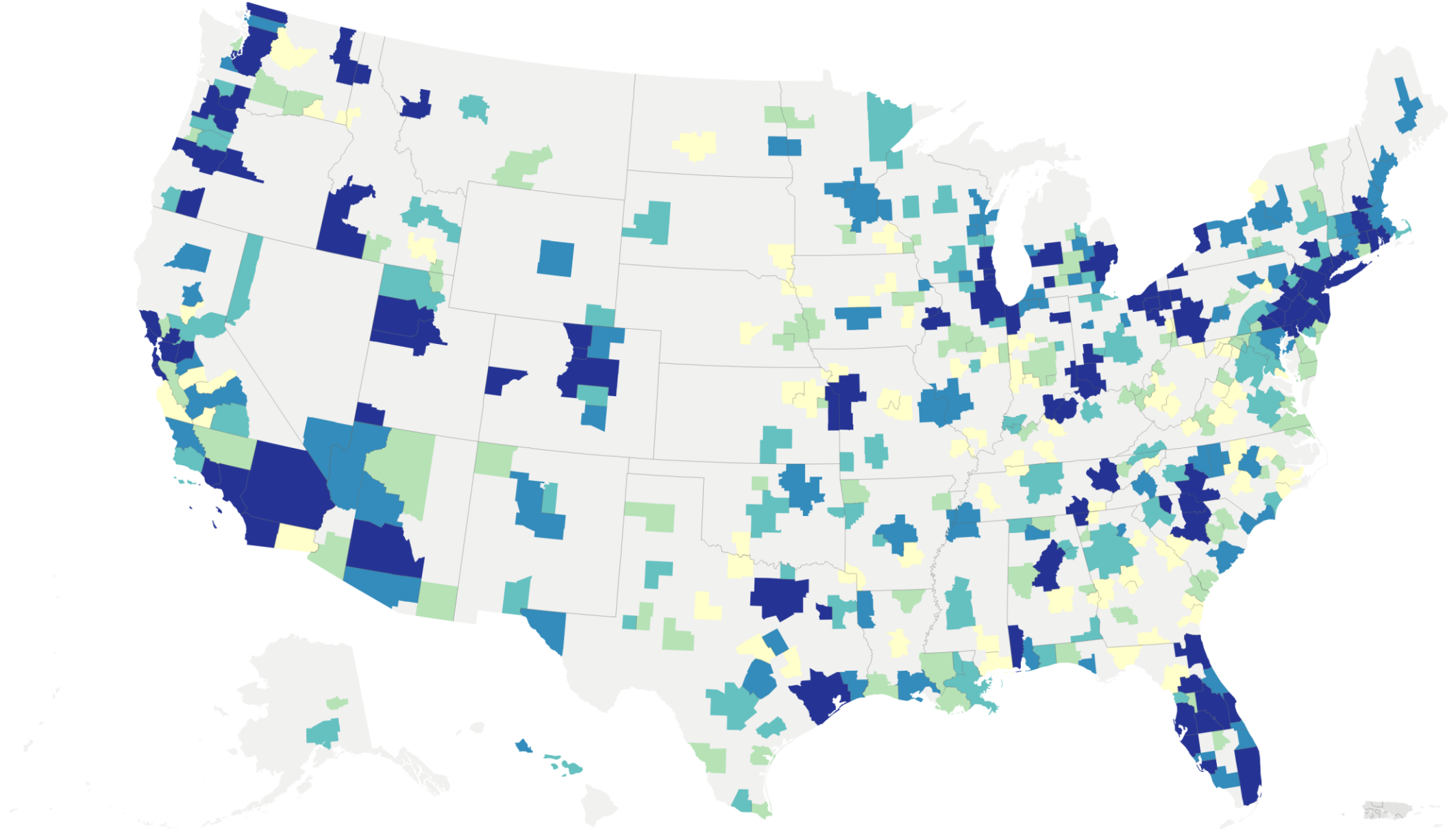
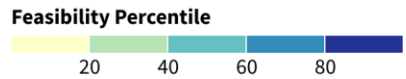
Clean Energy / Energy Transition Industry

Batteries & Components Electric Vehicles Energy Transmission Equipment Green Hydrogen Heat Pumps Low-Carbon Cement & Concrete Low-Carbon Iron & Steel Solar Energy Components Wind Energy Components

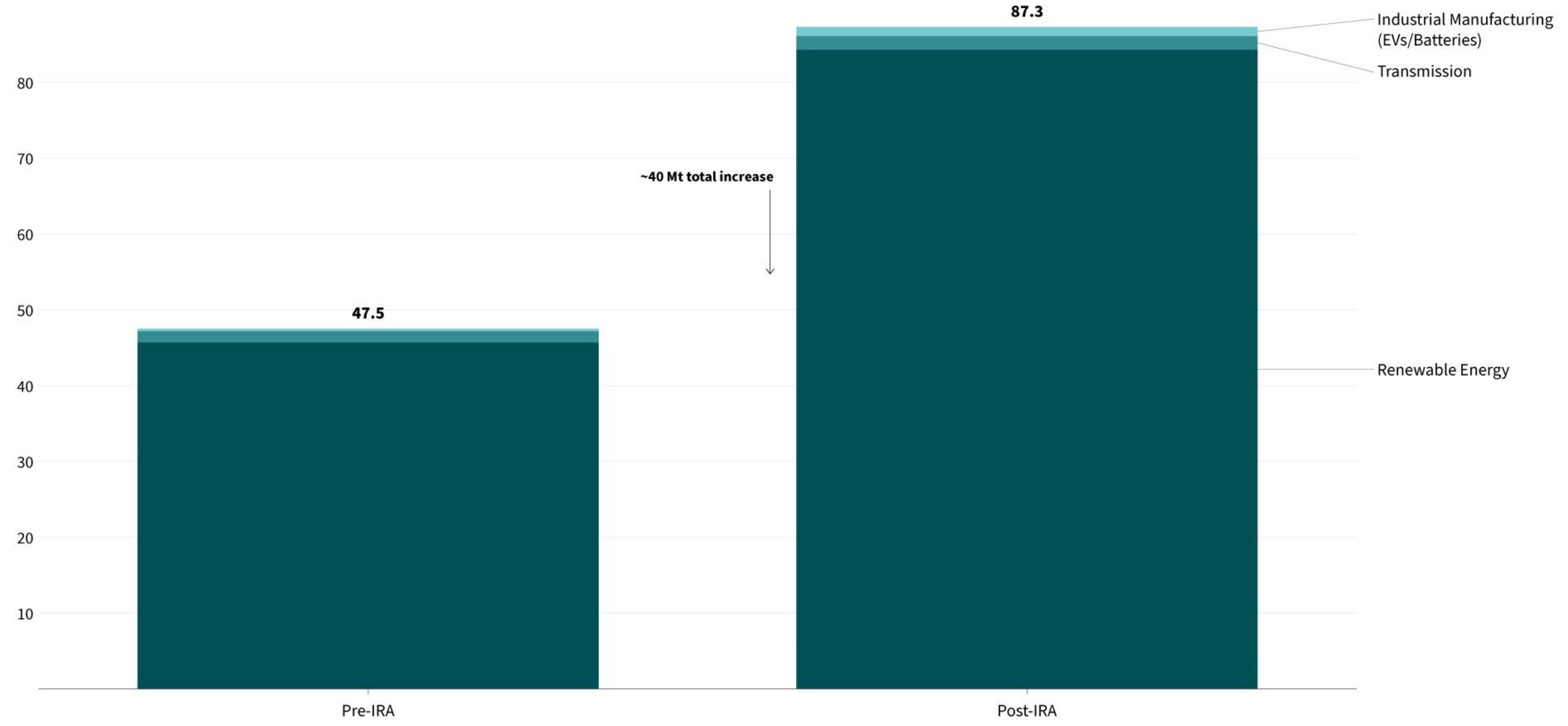


Feasibility, a function of an area's existing economic capabilities (e.g. workforce composition) in related sectors, is highly predictive of an industry's ability to thrive in a given location. It does not predict short-term investment. Additionally, this map uses the anchor cities in each Economic Area (EA) as reference points for each region, and as such does not illustrate the territory covered by each EA. For example, the Salt Lake City-Ogden-Clearfield EA encompasses most of Utah, but Salt Lake City is the reference point here.

Metro-Area Industry Feasibility: Low-Carbon Iron & Steel



US steel demand increase driven by IRA (million tons)

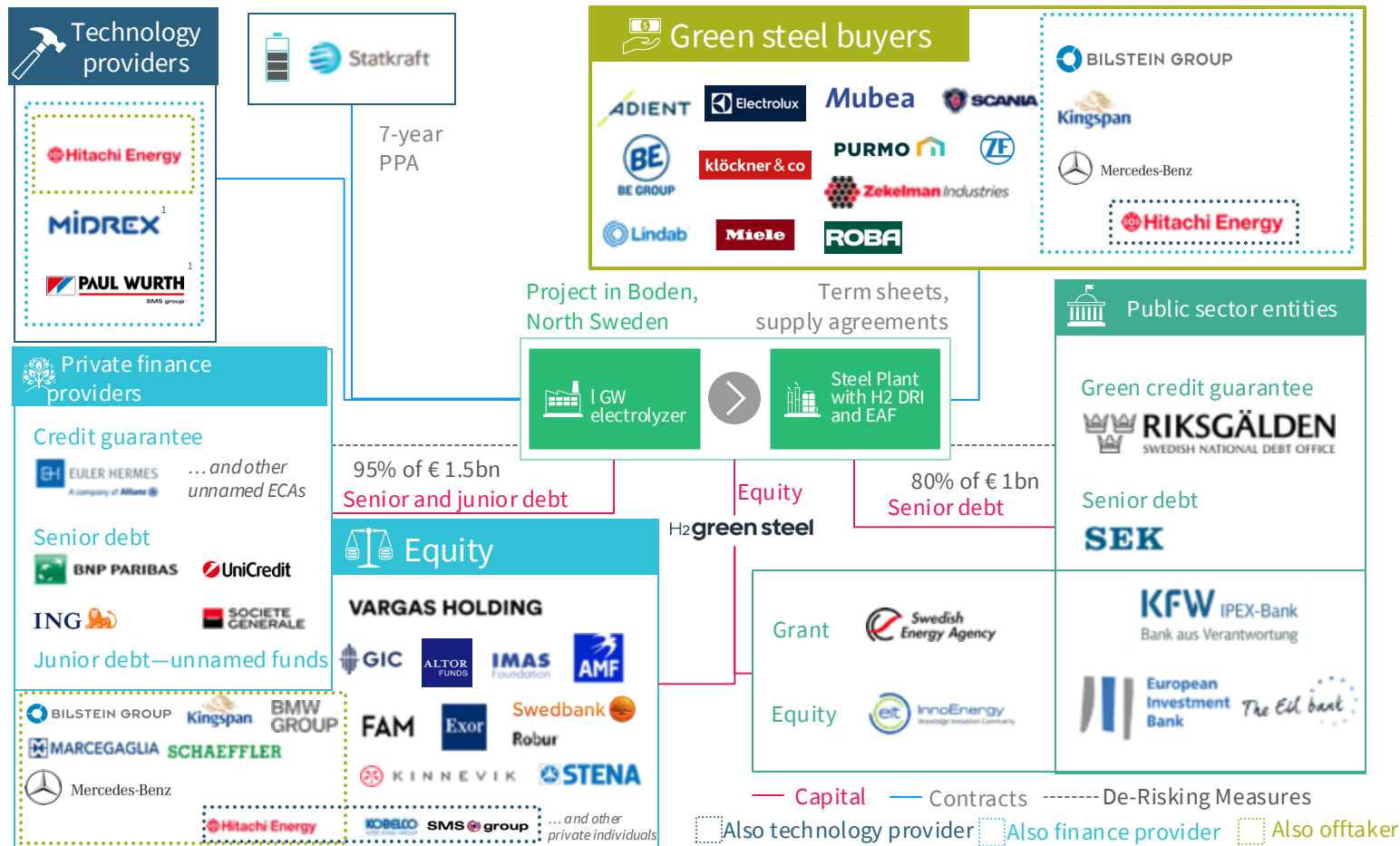


Renewable energy projections are from the REPEAT project's average annual capacity additions. 2030 annual capacity addition estimates projected to be 49 GW, 2 GW, and 6 GW Pre-IRA and 105 GW, 14 GW, and 7 GW Post-IRA for solar, onshore wind and offshore wind, respectively. Note IJJA's impact is included in the Pre-IRA estimates. Steel intensity (per MW) for each technology is assumed to be 62 t/MW, 122 t/MW, and 723 t/MW for solar, onshore and offshore wind, respectively.

Source: RMI Analysis; public project announcements; REPEAT Project Preliminary Report: The Climate and Energy Impacts of the Inflation Reduction Act of 2022/Electricity Transmission is Key to Unlock the Full Potential of the Inflation Reduction Act, Princeton University Zero Lab (2022); NERC Electricity Supply & Demand Transmission Projects; Atlas EV Hub Investment Analysis; "Effects of Renewable Energy Provisions of the Inflation Reduction Act on Technology Costs, Materials Demand, and Labor"

H2 Green Steel's Capital Structure for FOAK Industrial Decarbonization Project

Industry/Corporates



- Complex capital stack that involves several forms of “non-traditional” funding
- Large and diverse syndicate with creative risk sharing mechanisms
- Captured and concentrated demand from several parties interested in deal exposure beyond individual project cashflows



Clean Energy Investment Growth Since 2018

Growth in cumulative investment since 2018, indexed to Q2-2022. 2022-Q2 = 100.

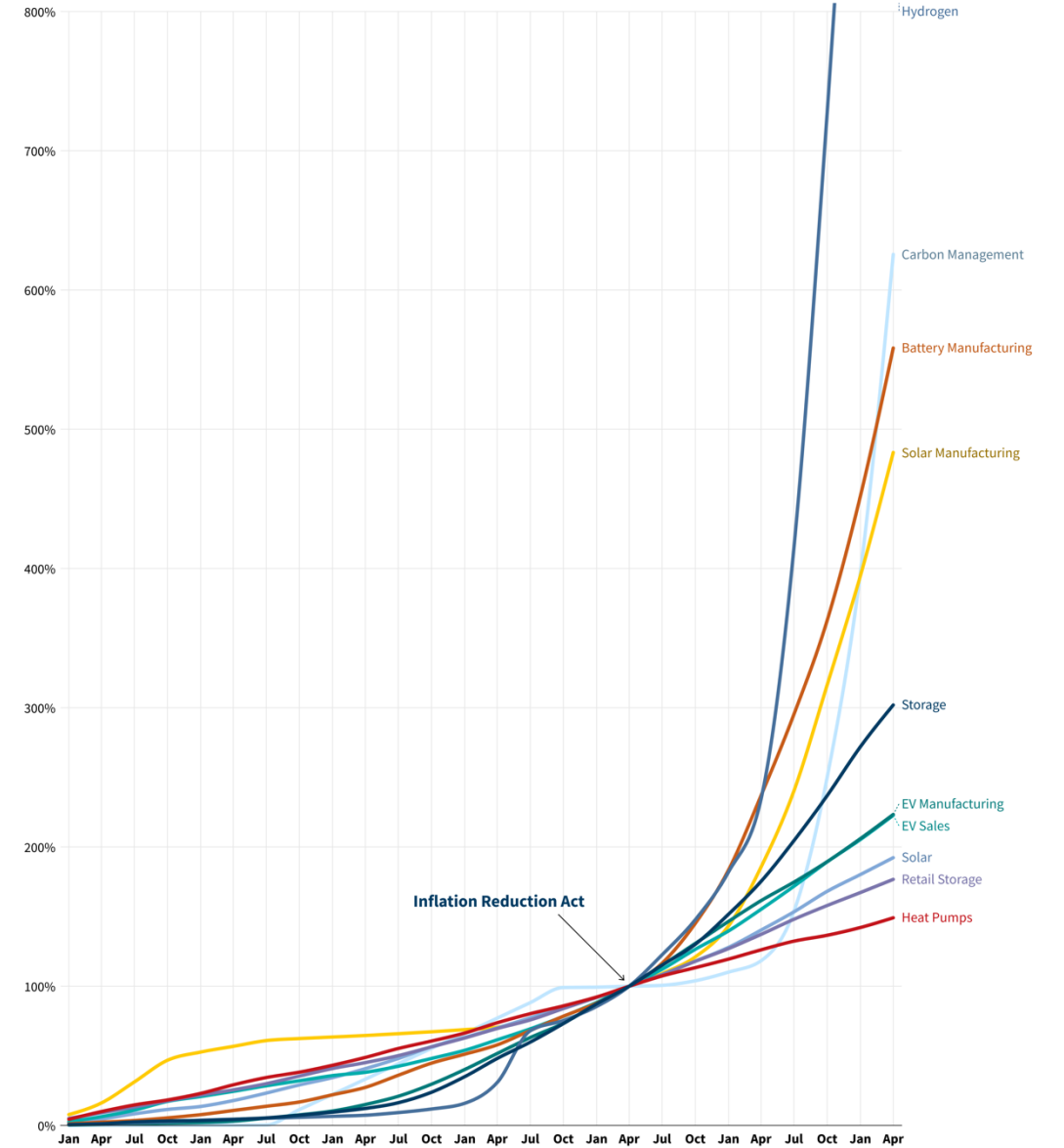


Chart: RMI Graphic • Source: Clean Investment Monitor

Cleantech Manufacturing Feasibility in Select Economic Areas (EAs)

These are some of the regions that earn high feasibility scores in RMI's Clean Growth Tool for transitioning into multiple clean energy technology manufacturing industries. Feasibility is a function of the overlap between a region's existing economic capabilities and the characteristics of a potential new industry. This metric is highly predictive of an industry's ability to thrive in a given location.

Feasibility percentile here is relative to the 179 regions considered in the Clean Growth Tool's 'Economic Area' filter.

Feasibility Percentile



	Atlanta-Sandy Springs-Gainesville, GA-AL	Birmingham-Hoover-Cullman, AL	Boise City-Nampa, ID	Boston-Worcester-Manchester, MA-NH	Chicago-Naperville-Michigan City, IL-IN-WI	Cleveland-Akron-Elyria, OH	Detroit-Warren-Flint, MI	Greensboro--Winston-Salem--High Point, NC	Houston-Baytown-Huntsville, TX	Louisville-Elizabethtown-Scottsburg, KY-IN	Milwaukee-Racine-Waukesha, WI	Minneapolis-St. Paul-St. Cloud, MN-WI	Philadelphia-Camden-Vineland, PA-NJ-DE-MD	Phoenix-Mesa-Scottsdale, AZ	Salt Lake City-Ogden-Clearfield, UT	Tulsa-Bartlesville, OK
Batteries & Components	78	91	84	91	99	87	73	64	97	89	96	74	95	98	82	47
Electric Vehicles	78	62	58	92	99	89	94	76	70	98	56	65	91	85	99	97
Energy Transmission Equipment	73	78	90	93	100	96	87	79	92	45	95	87	96	97	98	85
Heat Pumps	70	75	87	81	91	95	56	72	100	94	68	55	93	97	99	96
Low-Carbon Iron & Steel	71	87	95	84	98	99	93	79	94	52	92	74	96	91	83	73
Solar Energy Components	95	55	96	92	97	86	85	94	93	89	84	97	92	99	89	93
Wind Energy Components	81	75	92	91	98	97	84	59	99	80	90	73	95	97	93	79

Feasibility is a long-term economic development metric; it does not account for near-term drivers of investment.

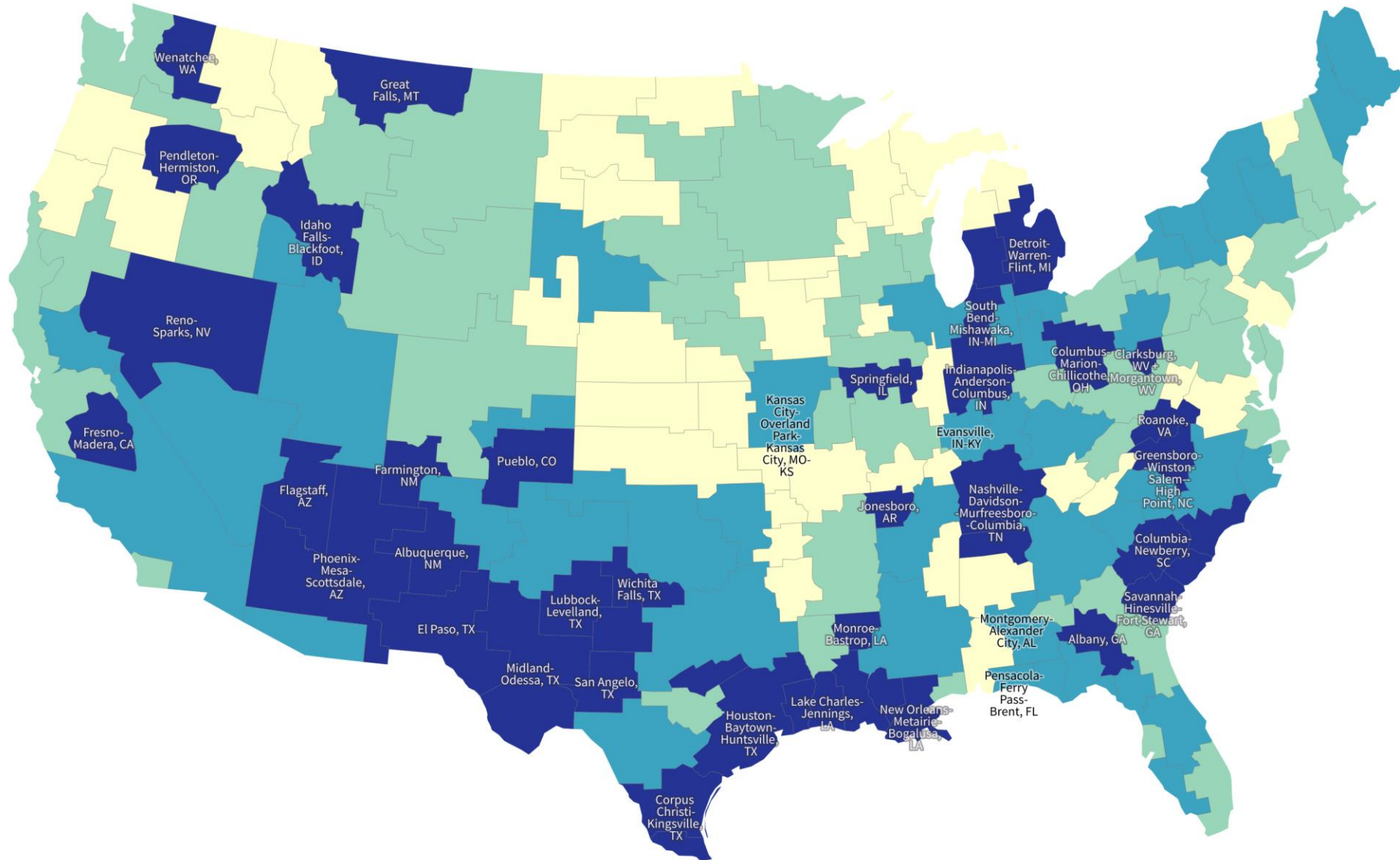
'Energy Transmission Equipment' includes technologies such as EV chargers, inverters, and transformers.

Clean Energy Investments Are Benefitting Almost Every US Region

Almost every region of the country has seen major new clean energy, industry, or manufacturing project announcements over 2022 - 2024 Q1.

Announced CAPEX Relative to Local GDP

Low Medium High Very High



50 highest-ranking regions are labeled (unless labels overlap).

Map: RMI • Source: Clean Investment Monitor



Q&A

MODERATOR



Amena Saiyid
Washington D.C Correspondent
Ciper
CiperNews.com



Jonathan Smith
Senior Chief Deputy Director
Michigan Department of Labor
and Economic Opportunity



Bryan Fisher
Managing Director
RMI



Jacob Corvidae
Senior Principal
RMI



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Re-Energize the Conversation**



SESSION 4: Re-Energize the Conversation

2:00-3:00 p.m.



MODERATORS



Dina Cappiello

Chief Communications Officer

RMI



James Lawler

Founder

Climate Now





Kingsmill Bond

Senior Energy Expert
RMI



Aaron Denman

Partner
Bain & Company



Research & Analysis by Kingsmill Bond, RMI

Please use this QR code to access the body of work authored by Kingsmill Bond and RMI's research and analysis team:

"The World, Re-Energized"



Research by Bain & Company

Please use this QR code to access the body of work authored by Bain & Company:

“Reality Check: Energy and Natural Resource Executive Pulse 2024”





Kingsmill Bond

Senior Energy Expert
RMI



Aaron Denman

Partner
Bain & Company






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THANK YOU FOR COMING

Please exit via the elevator or the staircase

