

US SAF Policy & Targeted Opportunity Regions

Launch Webinar March 7, 2024

Opening Remarks



Maria Martinez Director, U.S. Policy and Advocacy Breakthrough Energy

RMI – Energy. Transformed.

Speakers



Alex Piper Senior Associate US Program RMI



Aamir Shams Senior Associate Climate Aligned Industries RMI



Corey Stewart Senior Associate Climate Aligned Industries RMI



Joey Cathcart Senior Associate Climate Aligned Industries RMI

ARMI

SAF Policy: Refueling Aviation in the US

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Alex Piper





Refueling Aviation in the United States

Evolution of US Sustainable Aviation Fuel Policy

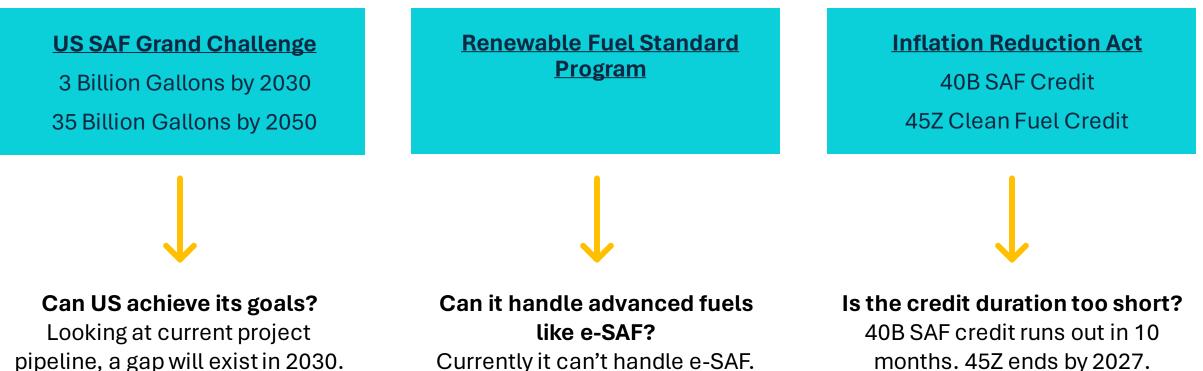


Report / February 2024



Federal Policy

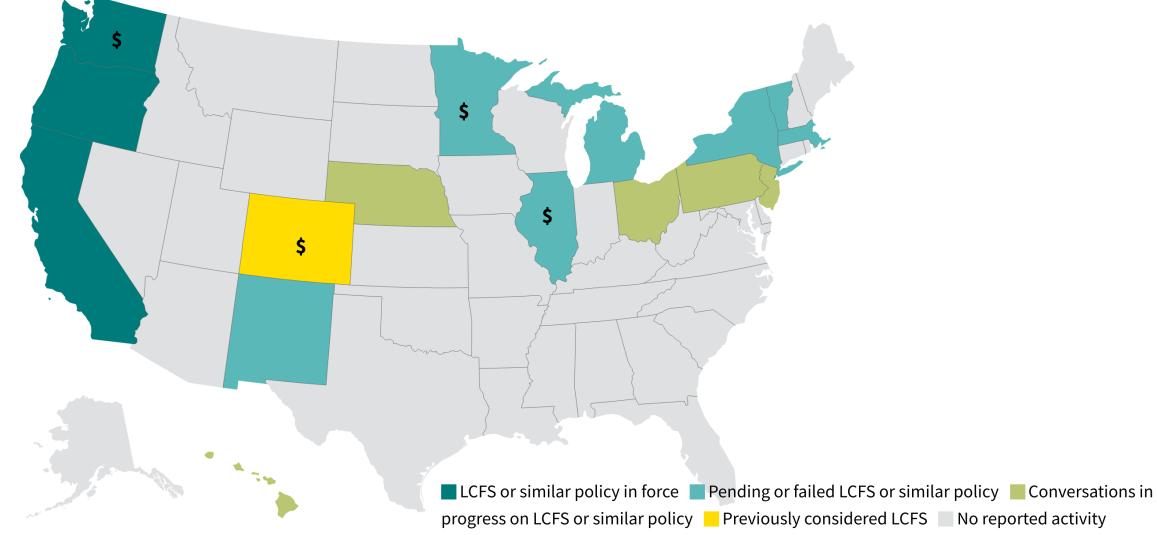
The Three Pillars of US Federal SAF Policy



Currently it can't handle e-SAF.

State-Level Policy

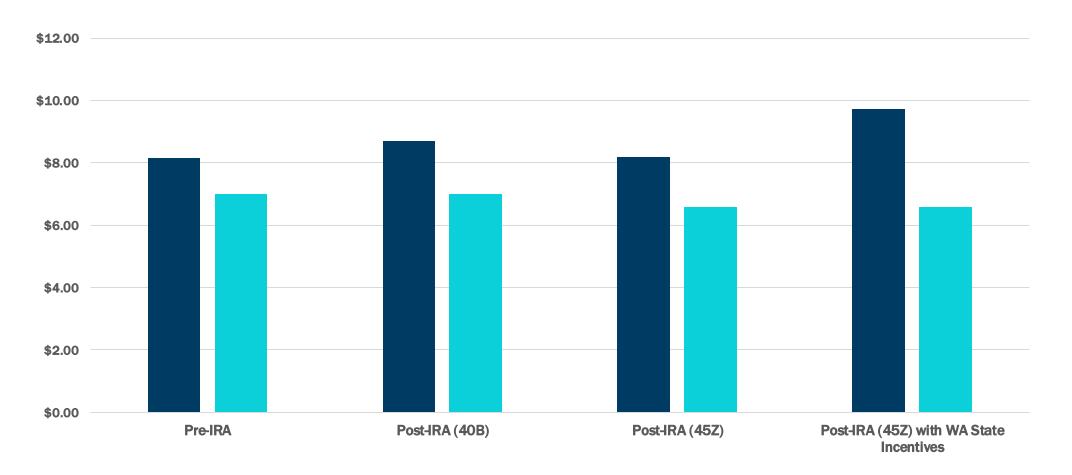
State policies can be game-changers for the SAF Industry

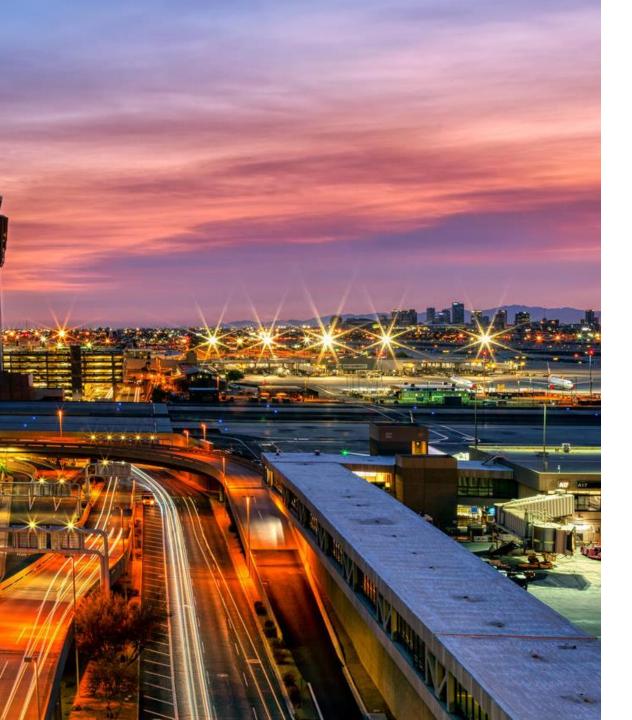


The "\$" indicates direct incentives for SAF in the states of Washington, Colorado, Minnesota, and Illinois.

Stacking State & Federal Incentives

New analysis suggests SAF outcompetes Renewable Diesel when considering the combined incentive stack.





Policy Takeaways

Given the urgency of decarbonizing the aviation sector, creative and certain policy implementations will be critical for the industry to innovate, finance to invest, and for airlines to adopt SAF as a decarbonization solution. Salt Lake City SLC Denver DEN

RMI



Sustainable Aviation Fuel **Targeted Opportunity Region-Rocky Mountain** Region



Minneapolis

Chicago

ORD

MSP

Sustainable Aviation Fuel Targeted Opportunity Region-Great Lakes Region

SAF -Targeted **Opportunity** Regions

Aamir Shams, Joey Cathcart & Corey Stewart

Defining a TOR

Targeted Opportunity Regions (TORs) are select regions in the US that have relevant industrial networks and significant SAF scaling opportunities. These regions can play a crucial role in helping the US aviation sector achieve its decarbonization targets. TORs are not limited to the US and this concept can be scaled globally.



Feedstock Availability

Legislative Incentives

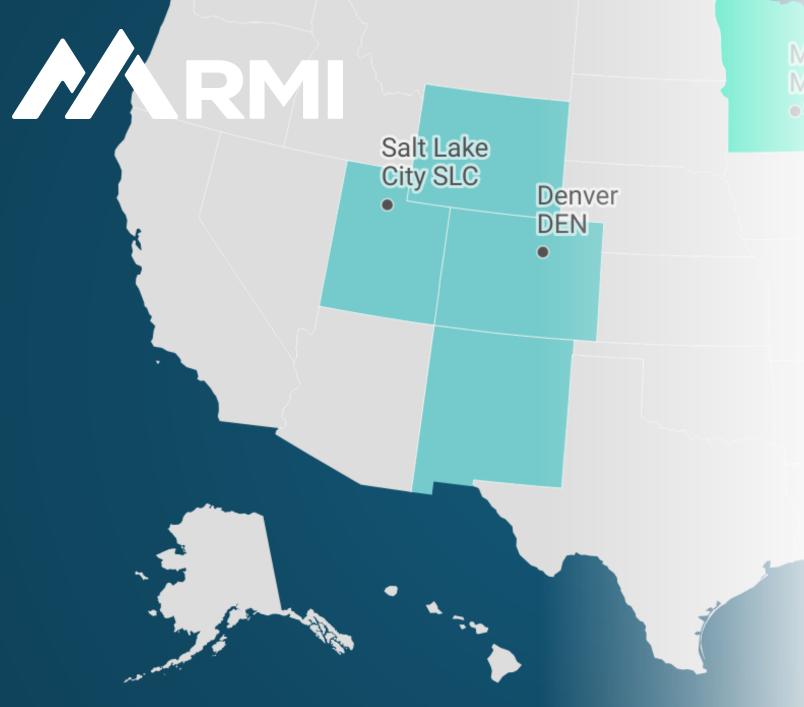
Demand Centers

Existing Infrastructure

Fostering Quicker Action. Realizing SAF's benefits Faster.

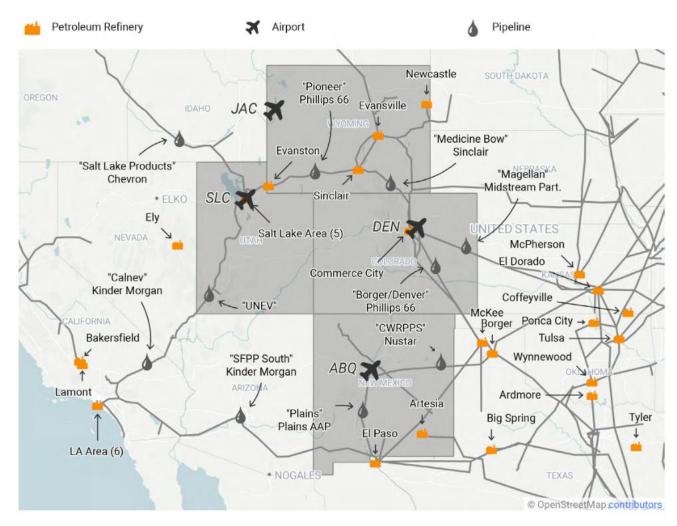
TORs can realize benefits of SAF quicker than a disaggregated process. Specialized Stakeholder Working Groups (SSWGs) will set the tone by building trust, paving the way for quicker action (permitting + offtakes + financing) and decarbonizing the sector in line with US & global targets.

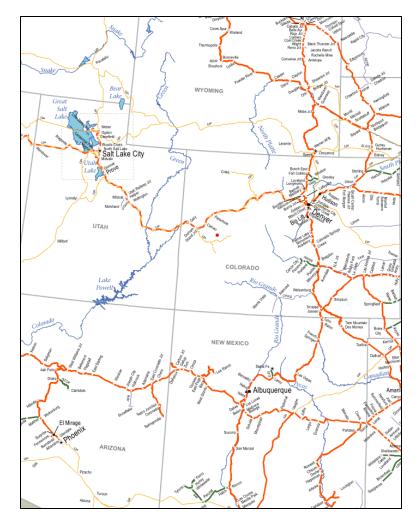






Key Rocky Mountain Attributes for SAF Deployment





RMI Graphic. Source: Energy Information Administration; RMI analysis

Source: BNSF Railway Network Map

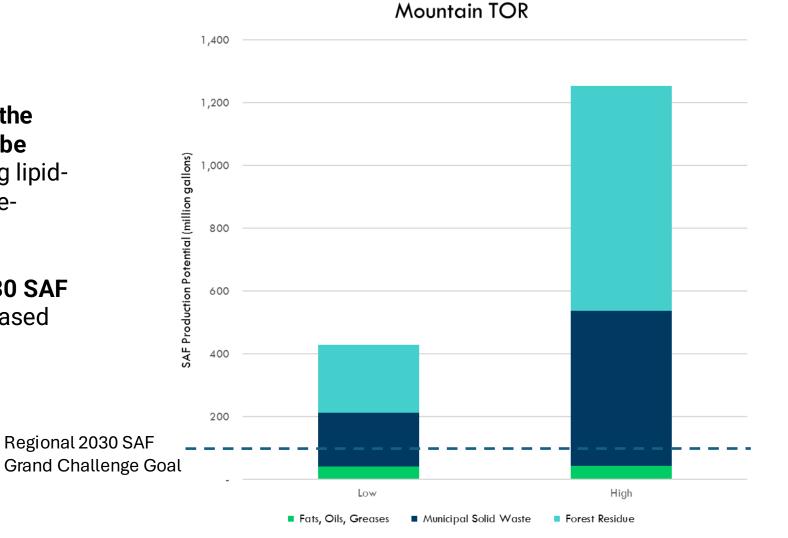
Rocky Mountain TOR will demand 100M+ gallons of SAF in 2030 and ~1.5B gallons by 2050

State	Jet Fuel Demand, 2030 (gallons, millions)	Jet Fuel Demand, 2050 (gallons, millions)	RM TOR SAF Grand Challenge Target 2030* (gallons, millions)	RM TOR SAF Grand Challenge Target 2050* (gallons, millions)
CO	640	1,088	79	1,047
NM	34	46	4	44
UT	237	410	29	395
WY	10	13	1	13
Total	921	1,557	113	1,498

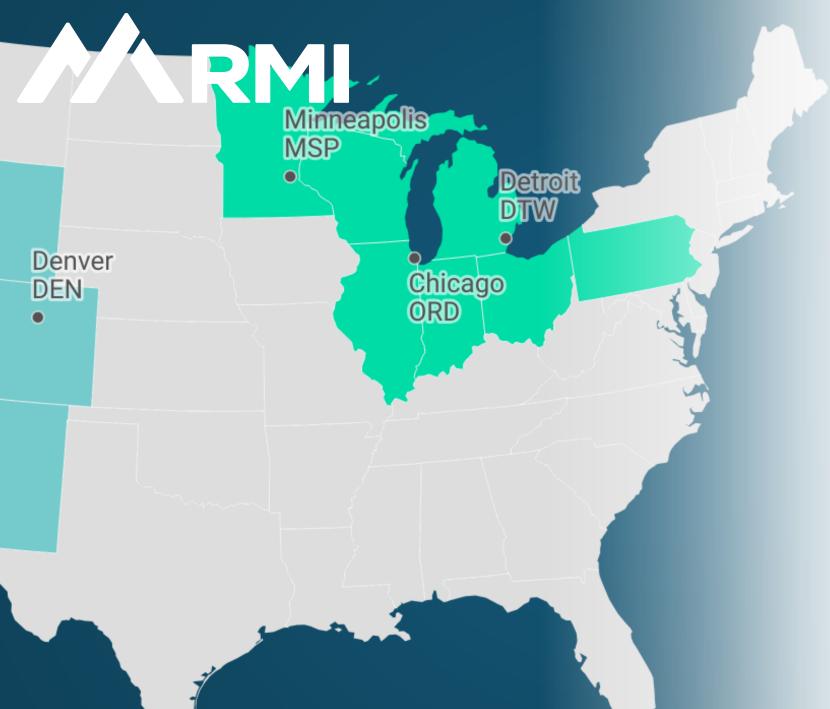
* US SAF Grand Challenge: 2030 - 3 billion gallons, 2050 - 35 billion gallons

Rocky Mountain TOR production potential exceeds the 2030 Targets

- The total SAF production potential in the Rocky Mountain TOR is estimated to be 430-1,250 million gallons, considering lipidbased, waste-based and forest residuebased feedstocks.
- Production potential exceeds the 2030 SAF Grand Challenge goal for the region based on projected jet fuel demand



Total SAF Production Potential in the Rocky



Great Lakes -Targeted Opportunity Region

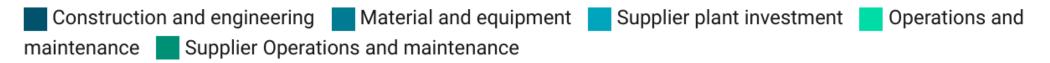
Key Great Lakes Attributes for SAF Deployment

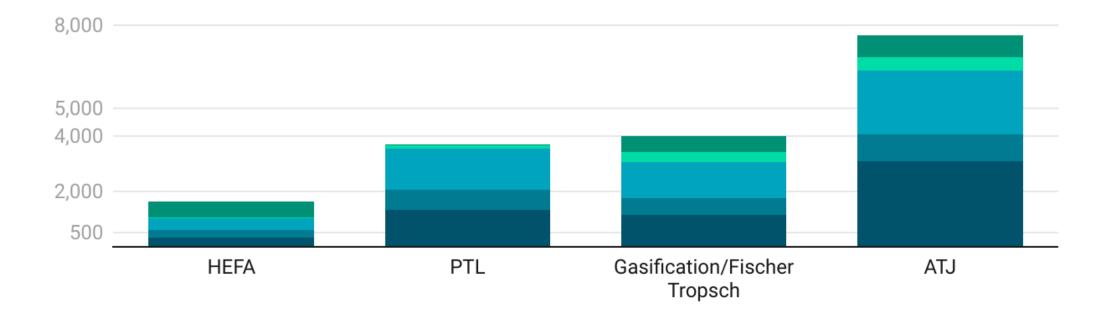


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SAF Refining Creates Skilled Jobs

Job figures for a simulated 50 million gallon/year SAF plant by value chain stakeholder





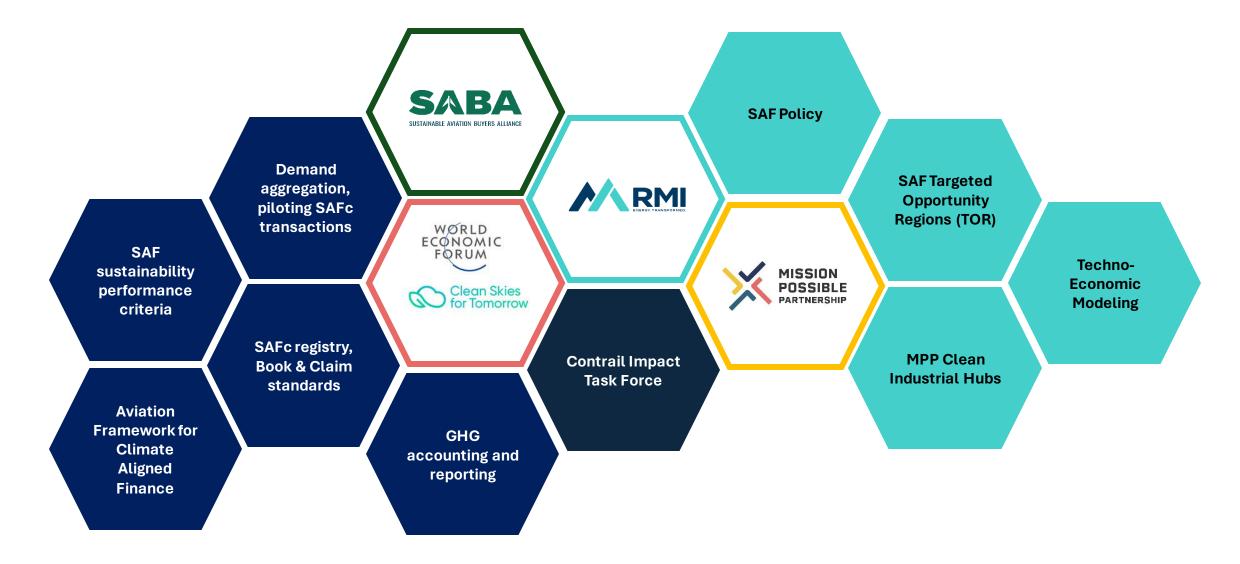
Closing Remarks



Andrew Chen Principal, Climate Aligned Industries RMI

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RMI's Work in the Aviation Sector



Demand side

Supply side

