

ALASKA INTERNATIONAL AIRPORT SYSTEM  
ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
**GLOBAL CARGO HUB**

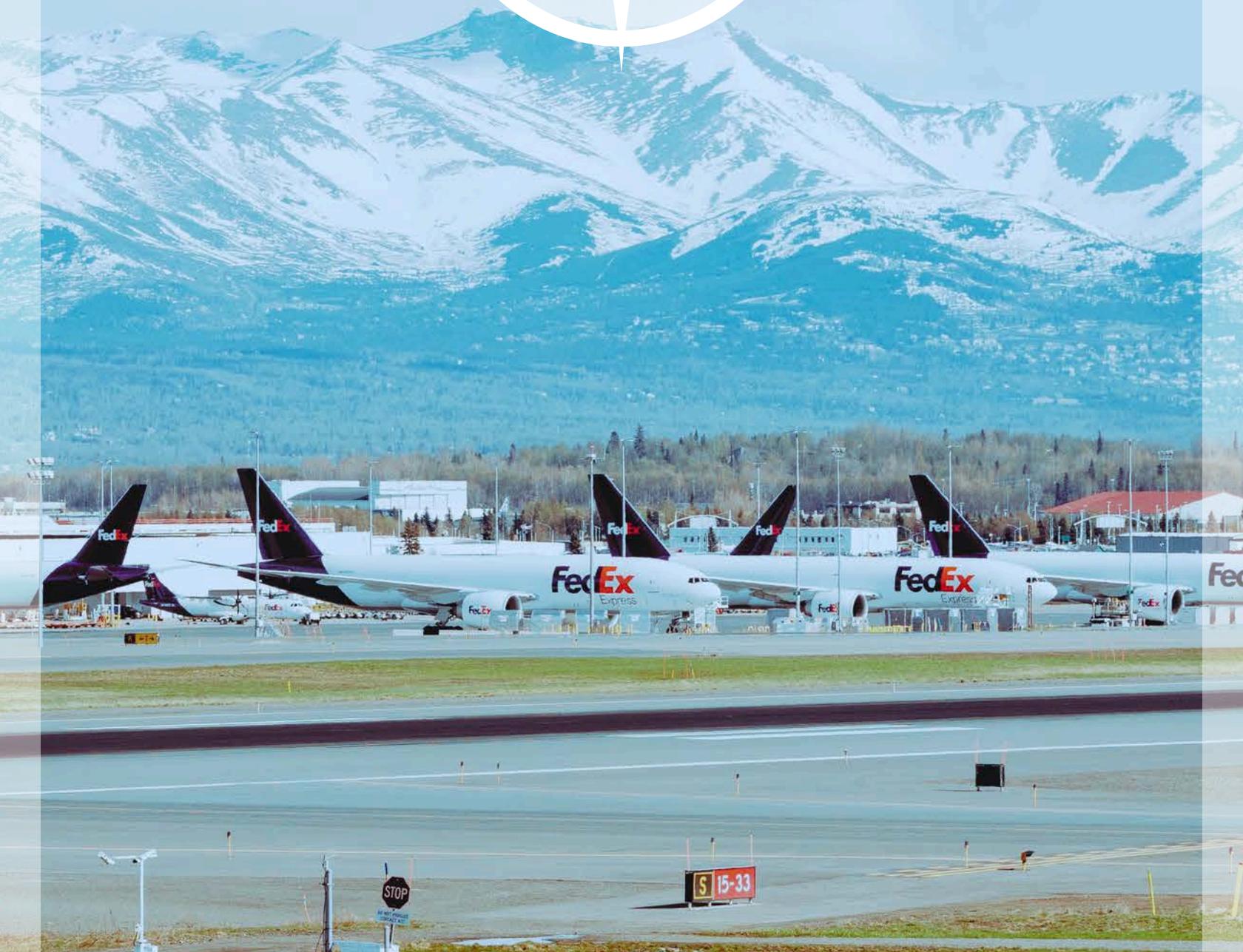
# ALASKA'S NEW FRONTIER SUSTAINABLE AVIATION FUEL



DECEMBER  
2024



# NORTH TO THE FUTURE



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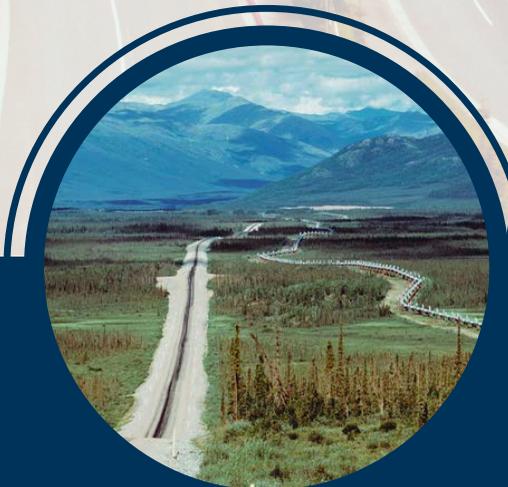
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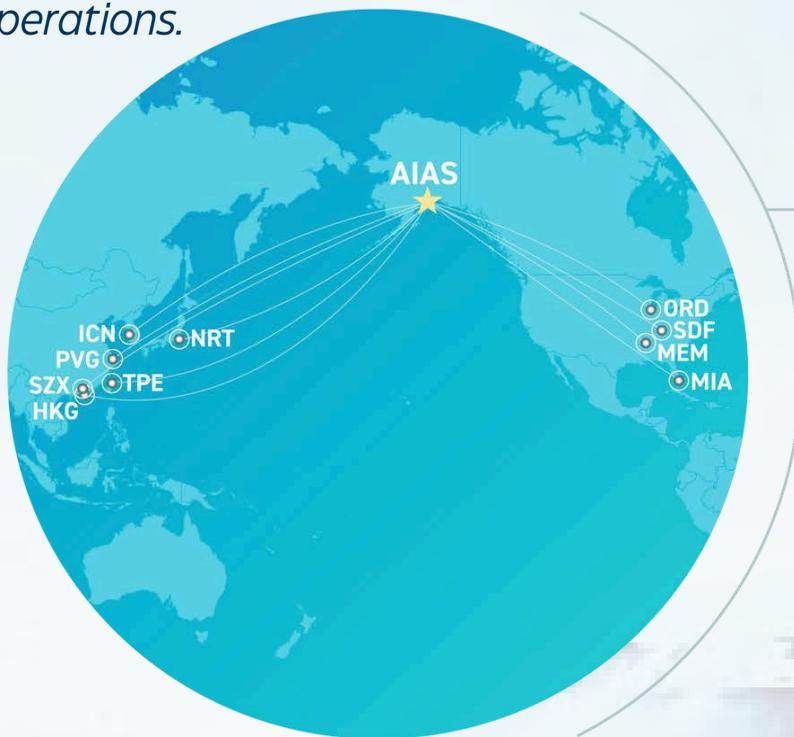


# ALASKA

STRATEGIC CROSSROADS FOR GLOBAL AIR CARGO

## LOCATION

Anchorage's prime location, near the top of the world and between Asia and North America, makes it a critical hub for global air routes and long-haul cargo operations.



**9.5 HOURS**  
**FROM 90%**  
**OF THE**  
**INDUSTRIALIZED**  
**WORLD**

**A MODERN REFUELING HUB**  
where cargo flights optimize fuel loads and maximize capacity, balancing costs and efficiency.

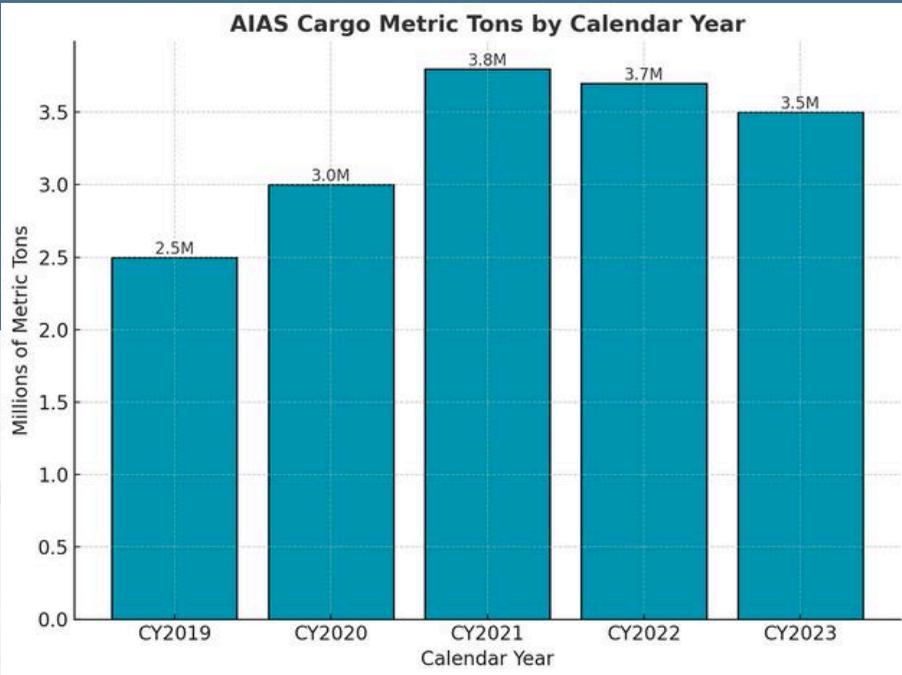
**AIRCRAFTS CAN ALWAYS LAND IN ALASKA**  
in the rare case where Anchorage is impacted by weather, we have diversion airports.

**OPERATES**  
**24/7 365**  
**DAYS A YEAR**  
**23-24 BALCHEN/POST**  
**AWARD WINNER**



# MODERN REFUELING HUB

**ANC HANDLES  
OVER **3.5**  
MILLION TONS OF  
CARGO  
ANNUALLY**



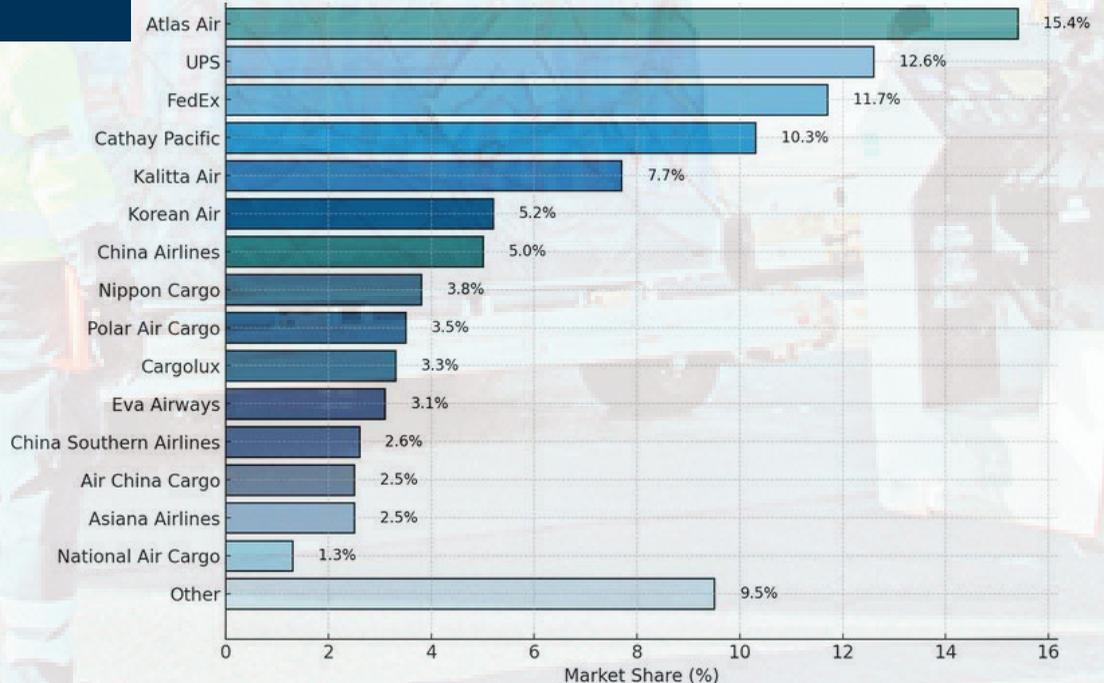
## GATEWAY FOR E-COMMERCE AND EXPRESS SHIPPING

Over **1 MILLION** square feet of cargo warehouses support efficient handling and storage of freight.

**Competing to be  
the #3 in the World  
for cargo tonnage**

**Cabotage:** Alaska specific laws allowing foreign carrier cargo transfers

CY23 ALASKA INTERNATIONAL AIRPORT SYSTEM (AIAS) LANDED WEIGHT CARGO MEASURED IN CMGTW (Certified maximum gross takeoff weight)



# FUELING TOMORROW

## ALASKA'S ROLE IN AVIATION ENERGY

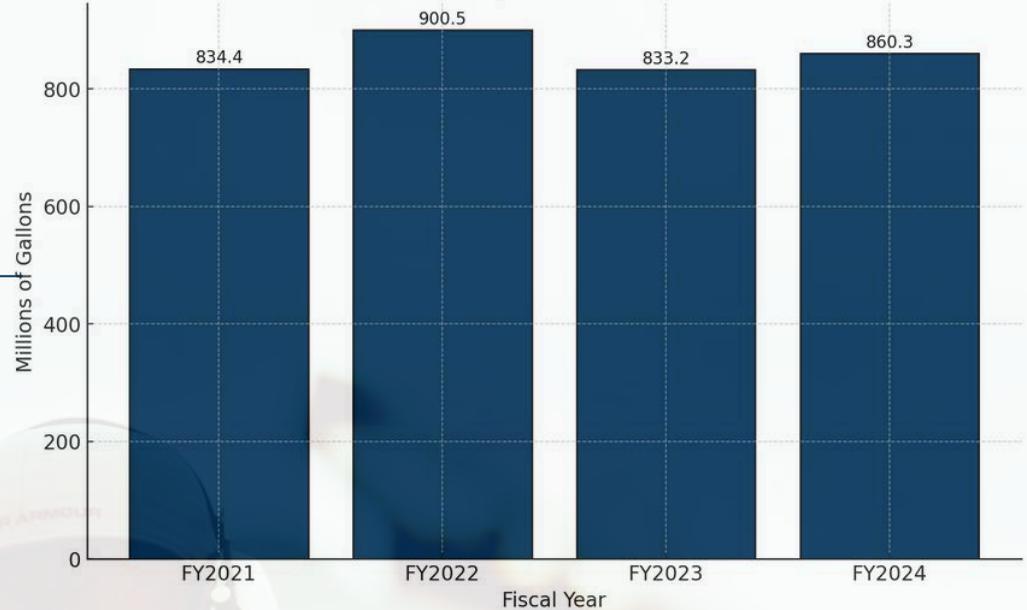
**ALASKA  
HAS THE  
DEMAND**

In 2022 alone, AIAS delivered an impressive **900 MILLION** gallons, showcasing Alaska's pivotal role in meeting international fuel demands.

### Alaska has the industry expertise

Alaska's deep-rooted expertise in energy development, built over decades as a global leader in oil and gas production, provides a strong foundation for advancing sustainable aviation fuel (SAF) initiatives.

Total Fuel Consumption (Millions of Gallons) \*



\*Excludes jet fuel consumption from Alaska's major military bases, Eielson AFB (Fairbanks) and JBER (Anchorage), which heavily contribute to state aviation fuel demand.



# ALASKA HAS THE RESOURCES

WE'RE A RESPONSIBLE STEWARD OF  
THE ENVIRONMENT

## RICH IN ENERGY RESOURCES BEYOND OIL



### BEETLE-KILLED FORESTS

cover over **5 million acres**, posing fire and ecological risks. 2000 to 2020, **2.5 times more** acres burned than in the previous 20 years.

**5-6 BILLION LBS SEAFOOD**  
producing **1.5–2 million tons**  
of byproducts. Alaska produces about  
**60%** of the nation's commercial fisheries.



By repurposing underutilized biomass for sustainable aviation fuel (SAF) production, Alaska can mitigate fire hazards, restore ecological stability, and contribute to the aviation industry's decarbonization efforts.



### ALASKA HAS EXISTING FUELING INFRASTRUCTURE

with over **140 million gallons** of fuel storage capacity at the Port of Alaska and an additional **130 million gallons** at ANC to integrate Sustainable Aviation Fuel.

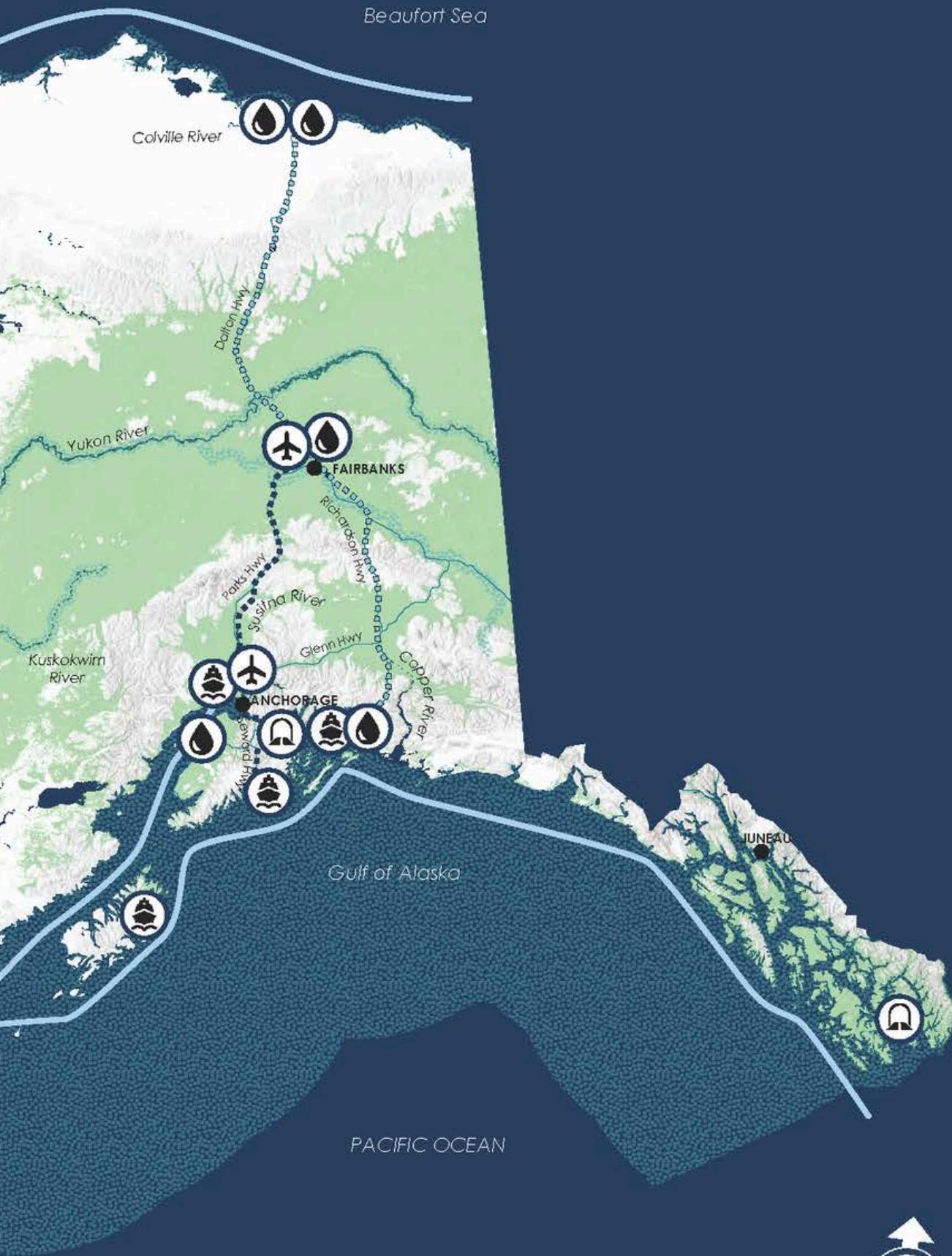
*Marathon Petroleum Refinery, Kenai*



-  Petroleum refineries
-  International airports
-  Tunnels
-  Ports
-  Fisheries
-  Forest
-  National Highway System
-  Railroad
-  Trans Alaska Pipeline
-  Marine routes



Beaufort Sea



Source: USDA - FIA Program, RSAC, Esri, Esri, USGS, National Land Survey of Finland, Esri, TomTom, Garmin, FAO, NOAA, USGS

# WORLD-CLASS TRANSPORTATION INFRASTRUCTURE

## ALASKA'S COMPETITIVE EDGE

### ALASKA CONNECTS THE PACIFIC TO THE ARCTIC THROUGH INTEGRATED

### AIR, SEA, AND LAND NETWORKS



#### AIR

- **2** international airports
- **12,400** feet long runway to accommodate the largest cargo aircraft,
- Over **500,000** square feet of cargo handling space
- Located just **6** miles from the Port of Alaska



#### WATERWAYS

- **5** ports among nation's busiest
- Port of Alaska, the largest port, handles over **3.5** million tons of supplies annually
- **M-5AK**: Extends from Puget Sound to Unalaska in the Aleutian Islands
- **M-11**: Arctic Gateway Marine Route



#### HIGHWAYS

- **5,635** center lane miles
- **11,894** lane miles of roads/highways
- Over **\$1B** State investment in infrastructure improvements annually
- **2.5 mile** Whittier Tunnel, longest rail and vehicle tunnel in North America



#### RAIL

- **470 miles**, connecting Seward to Fairbanks
- **656** total miles of track
- **737** freight railcars
- 3.5M tons freight moved annually by Alaska Railroad
- **2.8** million tons in 2020, primarily coal, gravel, and petroleum products

# LAND, AIR AND SEA COME TOGETHER



The State of Alaska manages over **\$15 billion** in transportation assets, supporting a unique multi-modal system that seamlessly connects the Pacific Ocean to the Arctic Ocean.



- Alaska is more than twice the size of Texas, the second-largest state.
- 33,904 miles of coastline, more than the combined coastlines of all U.S. states.
- Connects to the Arctic Ocean, Pacific Ocean, and Bering Sea, giving it unmatched geographical diversity.

# EXPLORING NEW FRONTIERS

## ALASKA'S AVIATION OPPORTUNITIES

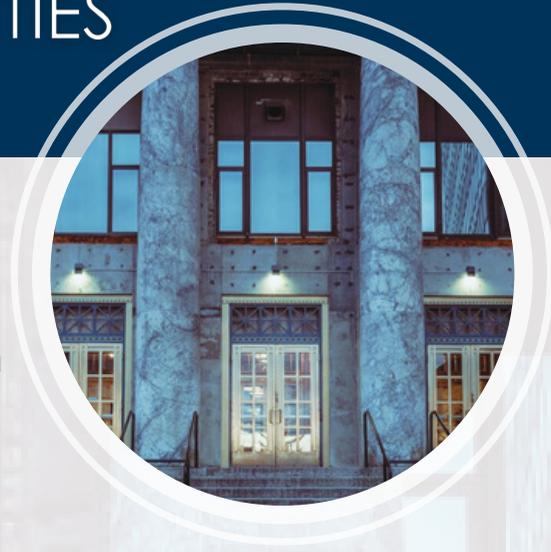
### NEW STATE LAWS & INCENTIVES

#### HOUSE BILL 50

Supports underground carbon storage for SAF production.

#### SENATE BILL 48

Enables land leases for carbon offsets, fostering SAF feedstocks and revenue.



### NEW TECHNOLOGIES NEW OPPORTUNITIES

SAF production is projected to exceed 132 million gallons annually by 2025.

### U.S. DEPT OF ENERGY PROVIDES LOANS AND TAX CREDITS TO ADVANCE SAF DEVELOPMENT

### ALASKA LEADS SUSTAINABILITY WITH FAA FAST GRANT!

Developing and integrating SAF to strengthen Alaska's leadership in aviation innovation.

### INVESTMENT SURGE

Global SAF investments have reached **\$17 billion** in 2023 for new facilities and technologies.

### AIRLINES AND SAF INTEGRATION

Over **50 airlines globally** have committed to SAF, with offtake agreements exceeding **20 billion gallons** for next decade.

**Low-Interest Loans:** designed to support advanced biofuel projects, including SAF production facilities, infrastructure development, and research into new technologies.

**Tax Credits:** Incentives are available to SAF producers, providing financial benefits for each gallon of SAF produced or for capital investments in SAF-related infrastructure.

By leveraging these financial tools, stakeholders in Alaska can enhance their competitiveness in the emerging SAF market, aligning with environmental goals while fostering economic growth in the region.

# ALASKA'S CAN DO SPIRIT

THE NEW FRONTIER

## SUSTAINED YIELD PRINCIPLE

The practice of managing the harvesting of a natural resource to sustain and enhance its use for **future generations**

For centuries, Alaskans have thrived by embracing the challenges of a vast and untamed landscape, guided by the wisdom of Indigenous communities who mastered sustainable resource management long before statehood.

## TODAY, ALASKA'S "CAN-DO" SPIRIT DRIVES US TO REIMAGINE OUR ENERGY FUTURE

Building on a foundation of innovation, resilience, and self-reliance, we are uniquely positioned to lead in the transition to low-carbon energy solutions, including SAF. By harnessing our natural resources and fostering bold partnerships, we aim to deliver cleaner energy, strengthen communities, and solidify Alaska as a global leader in sustainable development.

**FROM DOGSLED  
TO CARGO JET**



**ADVANCING  
PARTNERSHIPS FOR  
ALASKA'S FUTURE**

