

House Joint Resolution 27: Supporting State Energy Development

Presented to HENE
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Sponsor Statement

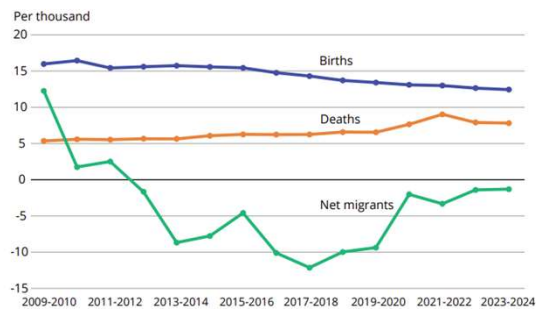
- House Joint Resolution 27 builds on the first session hearings and opportunities offers a framework for Alaska's energy and economic future and meeting our responsibility in article VIII, sec. 2, of the Constitution of the State of Alaska, mandating that the state's natural resources be developed "for the maximum benefit of its people,"
- Alaska possesses extraordinary assets—abundant oil and gas resources, world-class renewable energy potential, and critical and strategic minerals essential to advanced manufacturing, national security, and next-generation energy systems. This resolution recognizes that Alaska's long-term prosperity depends on responsibly advancing these resources together within a coherent, forward-looking framework.
- HJR 27 emphasizes the importance of preparing Alaska for emerging energy industries, including:
 - Development of comprehensive energy and economic strategy that includes exploration, development, and production of fossil fuels, renewables, rare earth and critical minerals, and value-added manufacturing.
 - The production, stimulation, storage, and processing of hydrogen into products and fuels.
 - Advancing Energy and Innovation goals and strategies in the Statewide CEDS and the Alaska Energy Security Taskforce
 - Creation of 1,200 new scalable ventures and associated jobs by 2025 with a \$5B GDP/\$400M UGF/30,000 Jobs impact.

Alaska is at an Inflection Point

Challenges

- Slow economic growth
- Job loss in key industries
- Talent and family outmigration
- Some of highest energy costs in the US

Yearly births, deaths, and net migrants per 1,000 Alaskans

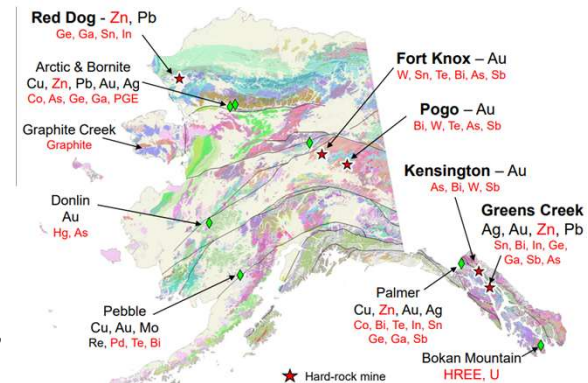


Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section

Untapped potential

- 35,000,000,000,000 cubic feet of proven natural gas reserves
- Deposits of 49 out of 50 critical minerals
- 10,000 gigawatts of potential wind, hydro, geothermal, solar, wave, and tidal

From Jones, USGS,
Wilson et al., 2015



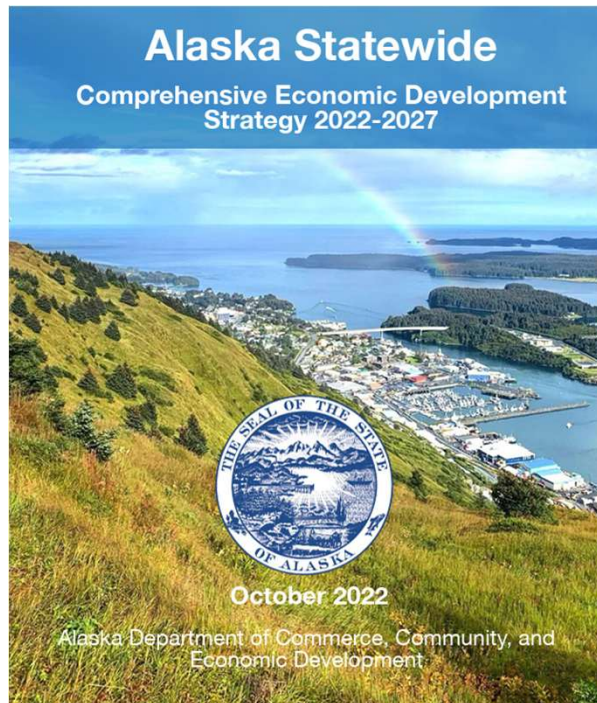
Legacy and Emerging Economic Sectors

Future growth will come from ***value-added support*** of existing economic engines and ***investment in emerging sectors*** and jobs

Diversification and technology growth aligns with our CEDS, state and national economic development trends, and history



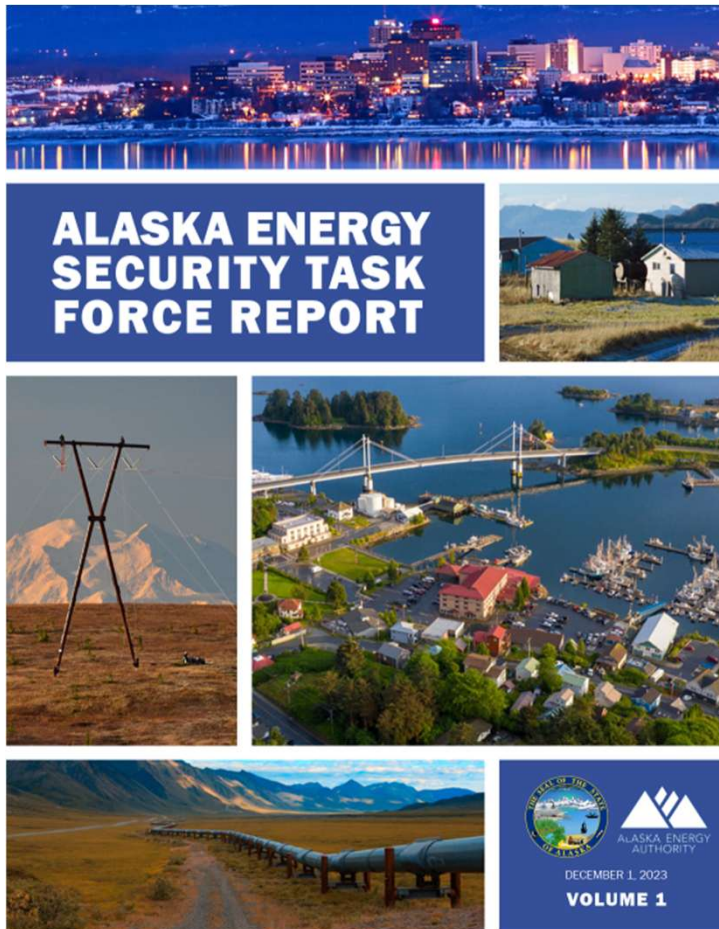
Emerging Sectors



Comprehensive Economic Development Strategy (CEDS):

- 1. Expand Reliable and Affordable Energy Access**
- 2. Support Renewable and Emerging Energy Technologies**
- 3. Leverage Energy for Industry Growth**
- 4. Integrate Energy Planning with Workforce and Infrastructure Development**

Alaska Energy Security Task Force



- Comprehensive Statewide Energy Planning
- Strategic Investment in Infrastructure
- State–Federal Coordination and Incentives
- Data, Planning & Public Engagement

Hydrogen



Alaska Hydrogen Opportunities Report

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With contributions from the Alaska Hydrogen Working Group, facilitated by the Alaska Center for Energy and Power at the University of Alaska Fairbanks.

Maximum Technical Hydrogen Production Potential from Alaska Marine Energy Resources (MMT/year)



Figure 7. Alaska's ocean energy (offshore wind, tidal, and wave energy) resource technical potential expressed in terms of hydrogen production potential (MMT per year) broken down by BOEM planning area. This does not include land-based renewable production. Adapted with permission from Meadows et al. (2023).

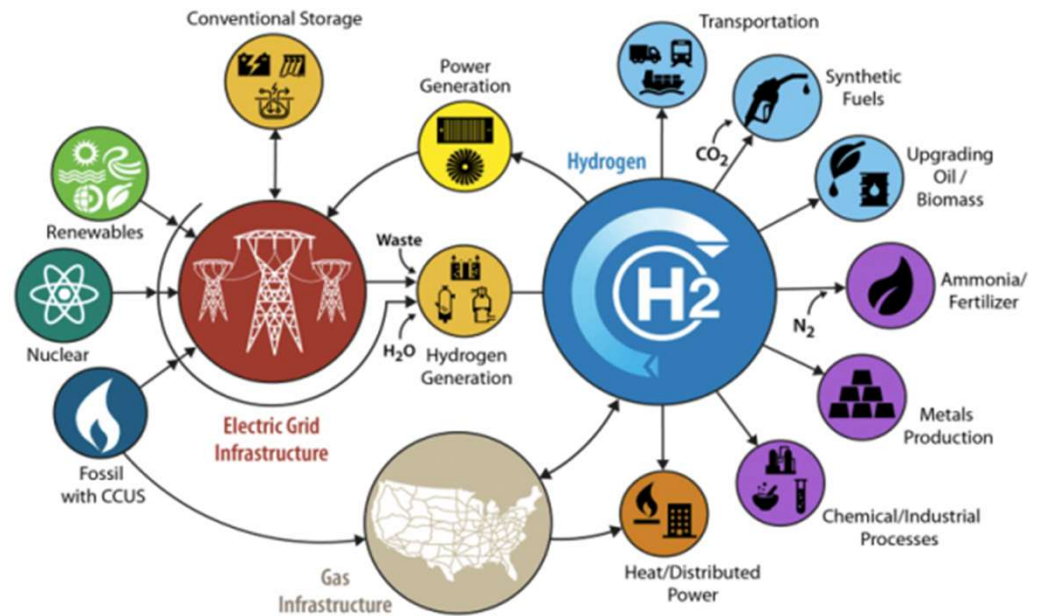


Figure 1. Illustration of the H2@Scale concept (DOE, 2021) — from hydrogen production using various sources, to storage for power generation when it is needed, to miscellaneous economic sectors where it can be used as a feedstock or fuel.

2035 Benchmarks Set by HJR 27

1,200 NEW SCALABLE VENTURES

30,000 NEW JOBS

\$5B PER YEAR IN ECONOMIC ACTIVITY

\$400M IN NEW PUBLIC REVENUE

HRJ 27 Supports

- **Commitment to a comprehensive energy and economic strategy**
- **Urges the federal government to provide project and financial support**
- **Investment in the goals of the 2022 - 2027 Alaska Statewide Comprehensive Economic Development Strategy**
- **Energy investments providing direct benefits to underserved regions**
- **State agencies to aggressively pursue opportunities to develop and process critical and rare earth elements**
- **Directs state agencies to coordinate energy and economic planning to create, by 2035, 1,200 new scalable ventures**
- **Champions a unified voice in support of the state's full development potential**