



Alaska Energy Security Task Force Presentation

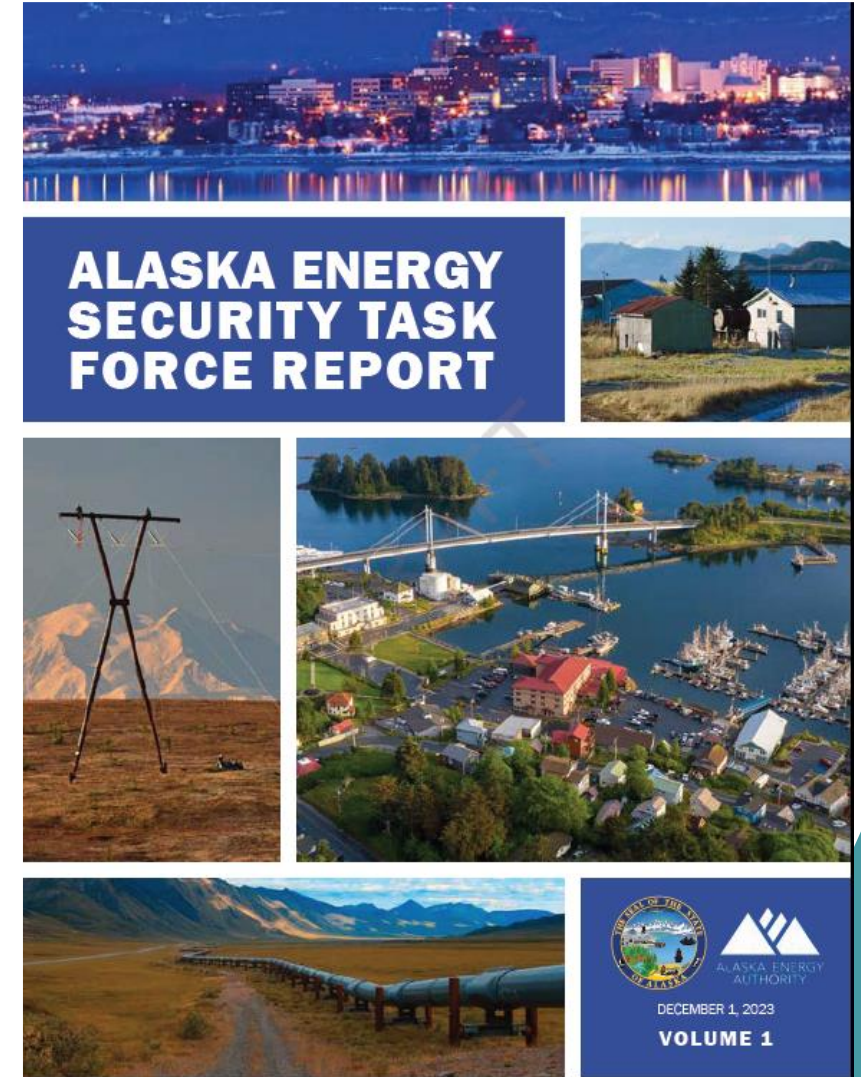
Juneau Commission on Sustainability

December 6, 2023

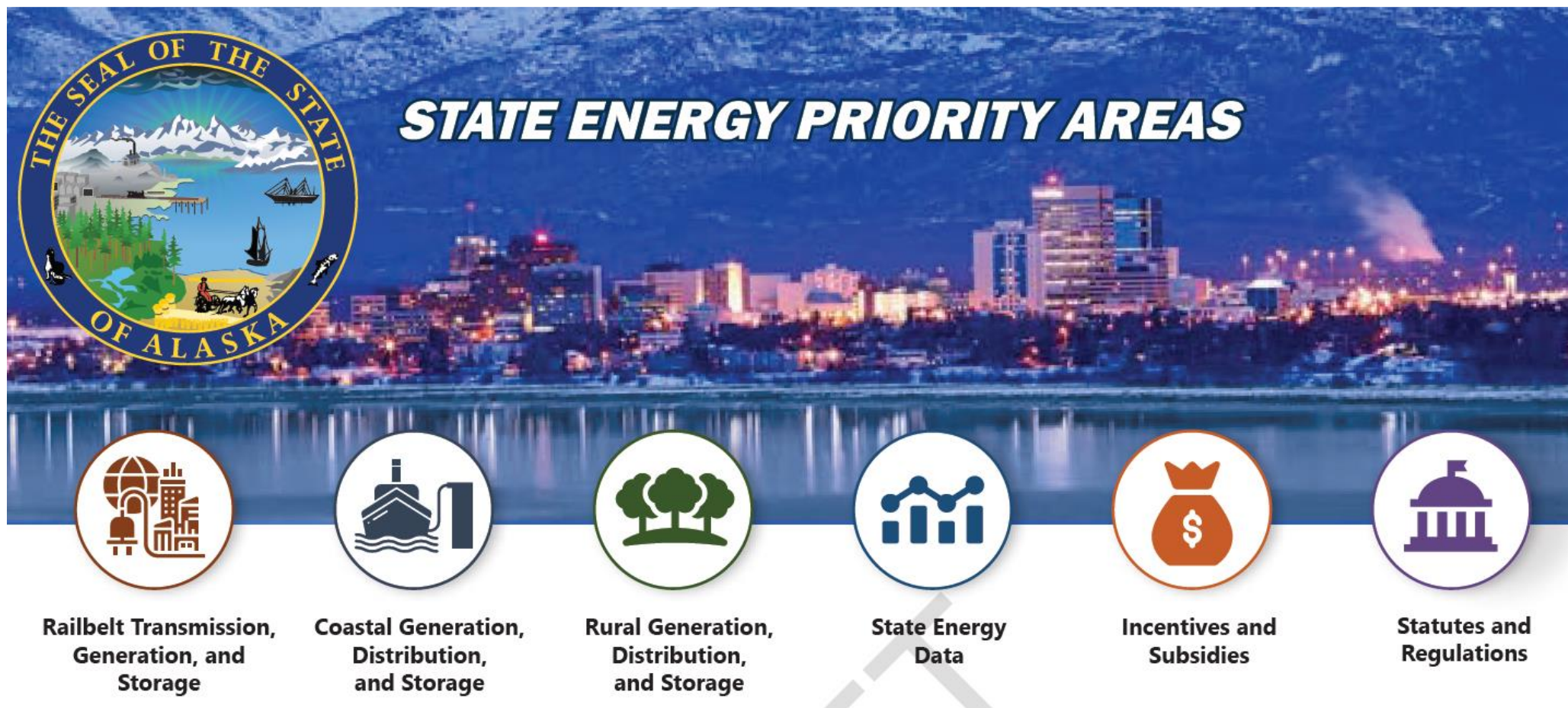
Admin Order 345

REASON: Alaska's economic and energy future rests on the ability to identify, develop, and provide affordable, reliable, and resilient electric, heating, and transportation energy across our state.

PURPOSE: The purpose of the Task Force is to provide recommendations on overall energy policy for the State of Alaska, as well as strategies and tactics to achieve its goal of reducing the cost of energy to Alaskan residents.



Report is broken into priority areas and recommendations transcend a regional boundary



Coastal Priority Overview Summaries



PRIORITY B: COASTAL GENERATION, DISTRIBUTION, AND STORAGE



B

**Coastal Generation,
Distribution,
and Storage**

The Coastal Generation, Distribution, and Storage Subcommittee identified four key strategies:

B-1 Alaska market initiatives: Maximize utilization of existing energy generation and transmission and promote new renewable energy assets to lower energy costs for Alaskans and their industries through market initiatives and expansion.

B-2 Alaska policy recommendations: Enhance Alaska's departmental and regulatory policies to spur and sustain renewable energy and transmission development to cut energy costs and advance economic prosperity for Alaska

B-3 State of Alaska coordination with Federal agencies and with Federally and State recognized Tribes recommendations: Refine federal policy to bolster Alaska's renewable energy and support communities in securing affordable energy.

B-4 Alaska hydropower generation recommendations: Enhance Alaska's policies to fast-track hydropower to provide affordable, secure energy for Alaskans.

COASTAL NEXT STEPS AND ACTIONS MARKET INITIATIVES RECOMMENDED FOR IMMEDIATE IMPLEMENTATION

B-1.1 Integrate and promote heat pump technology and systems (ASHP, SWHP, GSHP) as an alternative energy resource in Coastal Alaska.

B-1.2 Plan, finance, and support the execution of Shore power at Public and Private Cruise Docks to Sell Excess Energy to Cruise Ships.

B-1.3 Beneficially electrify the Alaska Ferry Fleet to lower the cost of transportation, emissions, and assist in reducing the cost of power in coastal communities.

B-1.4 Identify and support the colocation of industrial load (e.g. data servers) with Alaska hydropower facilities for synergies to lower energy costs.

B-1.5 Identify, assist, and fund Battery Energy Storage Systems (BESS) and other Energy Storage Systems (ESS) for successful integration into Coastal communities to increase energy security, grid resilience and to lower energy costs.

Maximize utilization of existing energy generation and transmission and promote new renewable energy assets to lower energy costs for Alaskans and their industries through market initiatives and expansion.

COASTAL NEXT STEPS AND ACTIONS ALASKA

POLICY RECOMMENDATIONS



B-2.1 Establish, require, assist, and implement community Integrated Resource Plans (light) to forecast energy demand and generation for community and regional future energy needs and to lower energy costs.

B-2.2 Strengthen Alaska's Net Metering energy framework, tariffs, and regulations for Alaska's diverse stakeholders to promote net metering renewable energy investments.

B-2.3 Strengthen and streamline the State of Alaska's internal state regulatory and land use administrative processes to accelerate approval to advance strategic energy projects and transmission for regional energy security and lower energy costs.

B-2.4 Strategize and prioritize State of Alaska funding to match federal funding and federal financing to build and expand sustainable transmission and distribution lines in Alaska to bring Alaska on par with the US transmission systems for Alaskan energy security and lower energy costs.



B-2.5 Establish and provide valuable energy planning and modeling metrics from State data sources, where available and requested (such as DMV electric vehicle registrations and Air Source Heat Pump (ASHP) installation) by individual communities.

B-2.6 Recruit, train, and enhance Alaska workforce with technical skills and training for advancing beneficial electrification to lower Alaska energy costs and to sustain Alaska's growing energy infrastructure.

Enhance Alaska's departmental and regulatory policies to spur and sustain renewable energy and transmission development to cut energy costs and advance economic prosperity for Alaska.

COASTAL NEXT STEPS AND ACTIONS

State of Alaska Coordination with Federal Agencies and Federally Recognized Tribes Recommendations

B-3.1 Establish an Alaska/federal Clean Energy Policy Force to develop, collaborate, and prioritize State energy, plan, goals, and rights to optimally advance renewable energy and transmission on federal lands.

B-3.2 State of Alaska partners and collaborates with Federally recognized Alaska tribes and federal agencies to develop mutually beneficial Energy Development and Transmission/Distribution to advance the State Energy Plan to lower the cost of energy.

Refine federal policy to bolster Alaska's clean energy and support tribes in securing affordable energy. Directionally (as opposed to aspirationally) advance Alaska's Energy Plan priorities to promote and develop clean energy generation and transmission assets through negotiating and influencing federal agencies for proactive federal energy development policy modifications and revisions and to collaborate and assist Alaska's federally recognized tribes in obtaining lower cost energy in Alaska.

COASTAL NEXT STEPS AND ACTIONS

Alaska Hydropower Generation Recommendations




B-4.1 Foster, support, and assist Hydropower development and their transmission in Alaska to lower energy costs, provide energy security, and spur economic growth, job creation, and prosperity for Alaska.

Enhance Alaska's policies to fast-track hydropower for affordable, secure energy Alaskans expect by optimizing Alaska public policies and investments to promote and advance execution-ready hydropower projects to lower the cost of energy and to bolster community and regional energy security that Alaskans deserve and expect.

“Hydropower in Alaska is not just an energy source; it is Alaska’s energy DNA”

Key Coastal Outcomes

- Strategically planned market initiative actions with tactical implementation will optimize State of Alaska's Energy plan to lower Alaskans' energy costs (electric, heating, transportation).
- Administration and AEA strategic maturation of Task Force recommendations, optimizing federal funding for the strategic achievement of goals will reduce the cost of power for Alaskans today and leave an energy legacy for generations to follow.
- The expected results and outcomes from this cross-agency, inclusive tribal interest effort will lower Alaska's energy costs and reduce the dependency on imported fuels, using local Alaska land and energy resources for the benefit of Alaska.
- The State of Alaska can take an active, willful, and calculated role in lowering the energy cost for Alaskans, by effectively guiding hydropower development policy and investments in hydropower assets and related transmission infrastructure.



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*LOWERING THE COST OF ENERGY FOR
ALASKANS*