

Alaska State Energy Security Profile

→ Advisory Committee Meeting

August 3, 2023





➔ Overview of State Energy Security Profile (SESP)



State Energy Security Profile Overview

1. Energy Landscape and Risk Profiles

- Summary of Electricity, Liquid Fuel, and Natural Gas Energy Systems in the State

2. Risk Assessment

- Threats to Energy Infrastructure
- Quantitative Risk Assessment
- Qualitative Risk Assessment

3. Energy Security and Emergency Response Authorities

- Key State Authorities and Statutes
- Key Federal Authorities and Statutes

4. Energy Security Planning and Preparedness

- State Energy Office Roles and Responsibilities
- Other State Agency Roles and Responsibilities
- Other Stakeholder Roles
- Regional Coordination

5. Energy Emergency Response

- Operational Playbook of state response actions during:
 - Matrices for power outages/electricity, liquid fuel, and natural gas events

6. Energy Resiliency and Hazard Mitigation

- State Energy Security Goals
 - Alignment of related plan goals
- Mitigation Measures
 - Action evaluation and prioritization framework
 - Table of proposed mitigation measures



➔ High Level Themes from the SESP



Alaska has more natural risks than other states...



Earthquake



Flooding



Severe
Weather



Tsunami



Cryosphere



Winter
storm



Wildfire



Volcano

Additional Themes

**Lack of redundancy
and single points of
failure**

Aging assets

**Interdependencies
(Airstrips, roadways,
marine access)**

Railbelt vs. Rural

**Reductions in natural
gas supply**

**Seasonal constraints
for construction and
repair**

**Supply chain and
workforce concerns**

**Logistic challenges of
external support**

**Competition for
funding sources**



Mitigation Measures – Chapter 6

- Alaska can utilize the list of potential mitigation options to focus funding from IIJA or other sources
- Many opportunities for investment and funding, but what can practically get done and make an impact?
- Prioritize mitigation measures to take is a key Next Step to improve resilience
- Longer term issues (e.g. evolving natural gas supply constraints) need to be planned very soon



Next Steps

- **August 31st:** AEA and ICF will consolidate and address comments, and develop a Final Report
- **Early September:** Report will be sent to the Governor's Office for review and approval
- **September 30th:** AEA will finalize and submit to DOE



→ Comments on the SESP?

