

# Institute of the North

*To improve the economic and living conditions of northern peoples.*

## Convener:

- Intersection of communities, government, private sector and research
- To advance policy and cultivate an engaged citizenry

## Center for Arctic Policy

- To identify and share best practices across the Arctic
- Develop strategies at and between local, state, national and international levels of governance
- Strategic focus on land and resource management, energy, economic development and emergency preparedness

# Arctic Energy Summit



## 1. Security and Affordability for a Resilient North

## 2. Holistic Approach

- Oil and gas exploration, production and development
- Remote power and heat
- Renewable energy and energy efficiency

## 3. Outcome Oriented

- Best Practices \* Research Gaps \* Potential Projects

*“Maximizing potential benefits while managing a project’s risks to local communities, cultures and the environment.”*

*“Diversification in power generation systems is needed, but improvements in diesel and end user technology is by far more important to remote communities in the short term.”*

# Best Practice



- Community input early in the decision-making process and throughout
- Clear system of metrics for making investment decisions,
- Use traditional knowledge to complement western science
- Emphasize proper utility management and long-term sustainable operations
- Diversify existing micro-grids by adding renewables
- Develop regional and local clean energy and energy efficiency policies

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# Research Gaps



- How are indigenous peoples included in the regulatory process?
- What are the impacts of subsidies on a project's success?
- What are the benefits of projects beyond the economic framework?
- How can governments help improve supportive infrastructure?
- How are Arctic energy projects currently or potentially funded?

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# Potential Projects



- Increase access to energy education, community awareness and literature
- Identify and invest in “hubs of excellence” to address specialized issues
  - i.e.; micro-grids, district heating, weatherization, etc.
- International Off-Grid Utility Forum to share best practices
- International agreements on energy efficiency indices
- Map out all available renewable energy resources in the Arctic.

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# Next Steps

## **SDWG Thematic Area – Energy**

### **1. ARENA**

- Identification and Development of Hubs of Excellence
- Human resource training and knowledge exchange

### **2. AREA**

- Assessment of renewable energy and energy efficiency
- Small community resource guide

### **3. 2017 Arctic Energy Summit**

1. Emerging energy technology and end user efficiency
2. Off-grid utility forum
3. Tri-sector approaches – government, industry and academia
4. Maximizing community benefits

# Arctic Renewable Energy Atlas

## **Arctic Renewable Energy Atlas (AREA)**

\*Endorsed project of the SDWG

AREA will promote science-based decision making as well as encourage clean energy development. By bringing together maps, resource data, research activities, and storytelling into a single tool, the Atlas will enhance knowledge of the best practices and local adaptation actions on renewable energy within the Arctic region.

Mapping phases will eventually include:

- Renewable Energy Atlas – including Wind, Hydro, Solar Thermal, Geothermal, Biomass, Tidal
- Community Energy Production, Consumption and Efficiency Database
- Community Energy Stories – Local video interviews about energy projects, traditional and local knowledge, and challenges and needs

# 2017 Arctic Energy Summit

## **2017 Arctic Energy Summit**

September 18-20, 2017 in Helsinki, Finland

\* Designated project of the SDWG

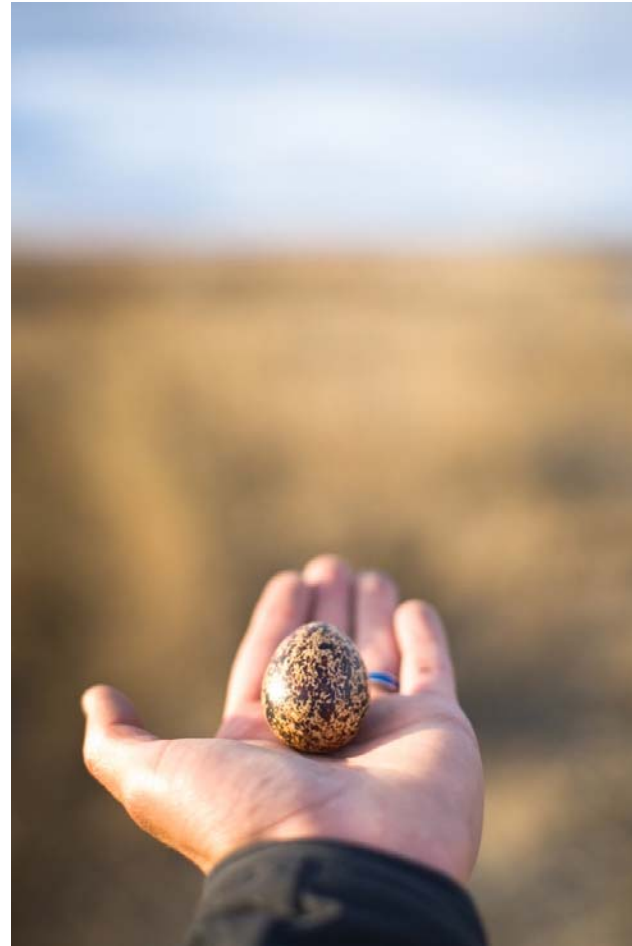
The AES will build on the best practices identified in AREA, feature the work completed by the Arctic Fulbright scholars, and address:

- Off-grid utility development
- Small modular nuclear power
- Circumpolar energy and energy efficiency strategies
- Building design and construction

Organizing Committee will begin work in the coming months to solidify planning, call for presentations, and begin the development of a draft agenda.



# Outcomes



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Video and Presentations at  
[www.arcticenergysummit.com](http://www.arcticenergysummit.com)