

Financing Clean Energy in Alaska

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Renewable Energy
Alaska Project

Founded in 2004, REAP is a statewide non-profit coalition of over 60 electric utilities, Alaska Native Corporations, clean energy developers, businesses and other NGOs

REAP's mission is to increase renewable energy development and promote energy efficiency in Alaska

REAP Education & Programs

STEM educators promoting *AK EnergySmart* and *Wind for Schools* reach hundreds of classrooms annually

Alaska Network for Energy Education and Employment (ANEEEE)

Sustainable Southeast Partnership (SSP)

Alaska Wind Working Group

Energy Transition Initiative Partnership Program


Conferences, Workshops, Renewable Energy Fairs, Public Presentations



REAP Advocacy

2008:	Renewable Energy Fund, \$100 million (\$270 million total)
2008:	\$360 million to AHFC for home weatherization (\$640 million total)
2010:	Emerging Energy Technology Fund House Bill 306 (State Energy Policy)
2016:	SB 196 (PCE Endowment)
2017:	Property Assessed Clean Energy (C-PACE)
2014-2021:	Railbelt Electric Grid Reform
2017-2021:	Green Bank

Alaska's Annual Billion Dollar Bonfire

A stylized illustration of a bonfire. The flames are depicted in shades of orange and yellow. Instead of wood, the fire is fueled by several dollar signs (\$). Some dollar signs are integrated into the flames, while others are floating in the air around the fire. The background is dark with faint, larger dollar signs visible.

Each year, Alaskans collectively spend approximately \$5 billion on electric, heating, and transportation energy. At least 20% of that energy is wasted and goes up in smoke.

Energy Efficiency: The “First Fuel”



Alaskans will spend an estimated \$5 BILLION on diesel fuel, natural gas and gasoline for our electricity, heat and transportation in the next year – *and approximately 20% will be wasted*

Weatherization and Rebate Programs

- \$640 million appropriated by the state since 2008
- Over 50,000 homes - average savings: 30%
- Average annual fuel savings is over 25 million gallons of diesel equivalent



*Photo courtesy of
AHFC*

Renewable Energy Grant Fund



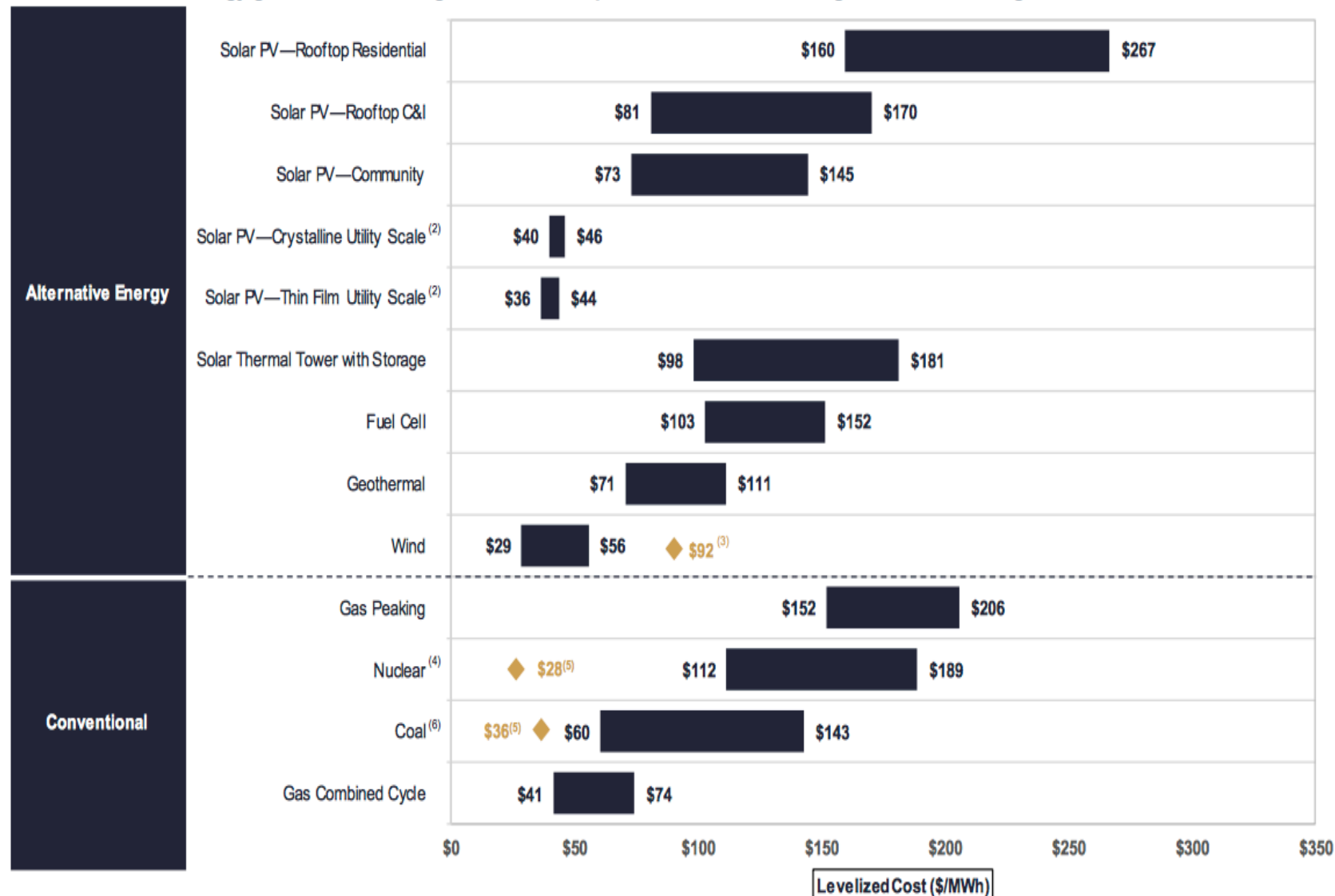
Established in 2008

\$270 million in state appropriations have leveraged another \$200 million in federal and private dollars

In 2020, 80+ projects displaced the equivalent of 30 million gallons of diesel fuel

Levelized Cost of Energy Comparison—Unsubsidized Analysis

Certain Alternative Energy generation technologies are cost-competitive with conventional generation technologies under certain circumstances⁽¹⁾



Why Private Financing for Clean Energy is Lacking

- Short track record for clean energy financing
- Clean energy projects are small and distributed
- Lack of capital market liquidity and maturity
- Human and organizational behavior

Elements of Green Banks

A focus on commercial technologies

A dedicated source of capital

A focus on leveraging private investment

A relationship with government

Functions of Green Banks

Design Loan Products & Programs to De-Risk

Educate Private Banks on the Opportunity

Market Loan Products and Programs

Leverage Private Investment Capital

Passage of SB 123 Will:

- Lower the energy burden of Alaskans
- Develop investment opportunities for Alaskan lending institutions
- Create jobs and promote business development
- Keep precious energy dollars circulating in the economy
- Position the state to receive federal operating and investment capital



Thank you

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