

Alaska Eco-nomics

Renewable Energy Update

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What is Eco-nomics?

- The practical promotion of the linkages between economic development AND environmental protection.
- The recognition that a sound economy and a sound environment go hand in hand.



9 Principles of Eco-nomics

- **Conservation is a Universal Value**
- Invest in “Ecologically Tuned In” Vested Interests
- Provide a Forum to Advocate Balance
- Resource Compatibility Works
- Maximize the Buy-In to Minimize the Conflict
- Seek Local Solutions Based on Respect
- Change is a Given
- **Synergy Rules**
- Take the Long View Home



Synergy Rules

In a fully evolved ecosystem, waste and pollution do not exist. What is waste to one species is food for another species. In a fully evolved economic system, what is one company's waste is another company's raw product material. Proper use of the marketplace can accelerate the benefits back to the forests, mountains and oceans. Prosperity for humankind can, if done wisely and compassionately, be good for the environment.

“I consider a green economy to be synonymous with an evolving high-tech economy. If we get a lot of garbage coming out of smokestacks then basically we're in economic adolescence. The need for environmental protection just hastens the transformation to a more efficient economy. It's a synergism at work here.”

Michael Silverstein, Economist & Author
The Environmental Economic Revolution





Overall Eco-nomic Connection

According to a 1998 ISER report by
economist Steve Colt –

84,000 Alaskan Jobs Depend on
Healthy Ecosystems



10 Best Reason Why Conservatives Should be Environmentalist

10. Fiscal Responsibility
9. Local Control
8. Stronger Family Ties
7. America the Beautiful
6. Profitable Business, Healthy Economy
5. America's Future
4. Private Enterprise and Jobs
3. Patriotism
2. National Security
1. It's the Right Thing To Do



Synergy and Conservation Values

Generally speaking, do you think improving the environment conflicts with economic growth, or do you think improving the environment does not have to conflict with economic growth?

Conflicts

25%

Doesn't Have To

70%

Unsure

5%

Gallup 8/06



Whether or not you think improving the environment conflicts with economic growth, if there is conflict, which should take priority: improving the environment or economic growth?

Environment
57%

Economic growth
35%

Unsure
8%

US Gallup Survey 8/06

Conservation is an Alaskan Value

- 79% of Alaska voters consider themselves to be a conservationist. 37% of survey respondents labeled themselves as “strong” conservationists, while an additional 42% classified themselves as a “moderate” conservationist.
- 73% of Alaska’s registered voters agree that we have a moral responsibility to take care of Alaska’s land, water and wildlife.

Statewide Survey 7/06

Fairbanks, Maslin, Maullin & Associates



W's Green War

Any Color But Green

*A new political alliance is battling the
environmental movement*

On the Western Front

Dispatches from the war with the Wise Use movement

The War Among the Greens

Greenpeace Takes

Over the World

Congressional Chain-Saw Massacre

The Business of Green

By Scott Brinker



The New Black

Companies and Critics Try Collaboration

Even as the green movement gains momentum, critics are warning that the industry is still in its infancy. They say that the current wave of green building and sustainable practices is just a fad, and that the industry is still far from being a viable business. However, many companies are beginning to see the benefits of green building and are starting to invest in it. They are realizing that green buildings can save money in the long run by reducing energy costs and improving indoor air quality. They are also realizing that green buildings can attract tenants and customers who are looking for sustainable options. As a result, the green building industry is expected to continue to grow in the coming years.



What's Kind to Nature Can Be Kind to Profits

Green buildings are not just good for the environment, they are also good for the bottom line. They can save money in the long run by reducing energy costs and improving indoor air quality. They can also attract tenants and customers who are looking for sustainable options. As a result, the green building industry is expected to continue to grow in the coming years. Companies that invest in green building are likely to see a return on their investment in the long run. They are also likely to see an increase in their reputation and brand value. Green buildings are becoming a key part of many companies' sustainability strategies.

PHOTO TOP COURTESY OF THE U.S. GREEN BUILDING COUNCIL
PHOTO BOTTOM COURTESY OF THE U.S. GREEN BUILDING COUNCIL
PHOTO RIGHT COURTESY OF THE U.S. GREEN BUILDING COUNCIL
PHOTO LEFT COURTESY OF THE U.S. GREEN BUILDING COUNCIL



Must Translate Values into Political and Economic Will

Climate Change

Use the Marketplace - Cap and Trade

CO₂ Capture and Sequestration

Energy Conservation

Green Buildings

Lifestyle Changes – Bus and Bike

Accelerate Renewable Energy



Advantages of Renewable Energy

- No fuel costs = stable prices
- Local
- Clean
- Inexhaustible
- Energy independence – national security

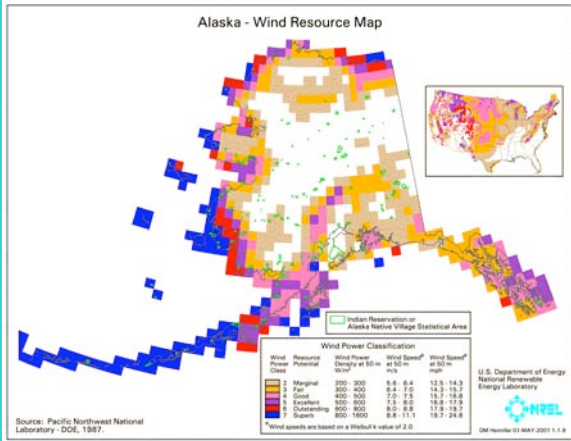


The Resources in Alaska

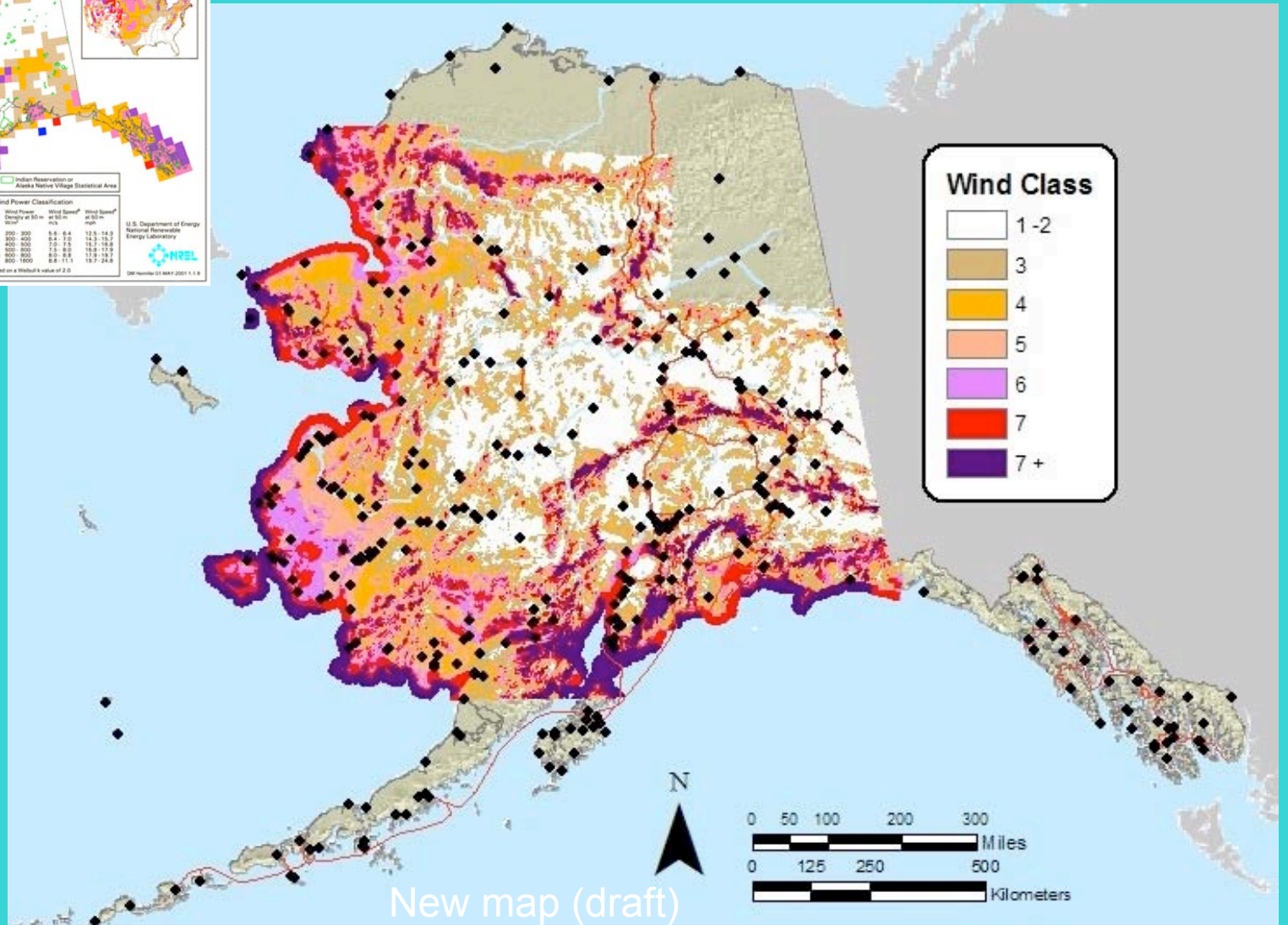
- Wind
- Geothermal
- Biomass
- Ocean Power
- Hydro
- Solar – for cabin or home needs



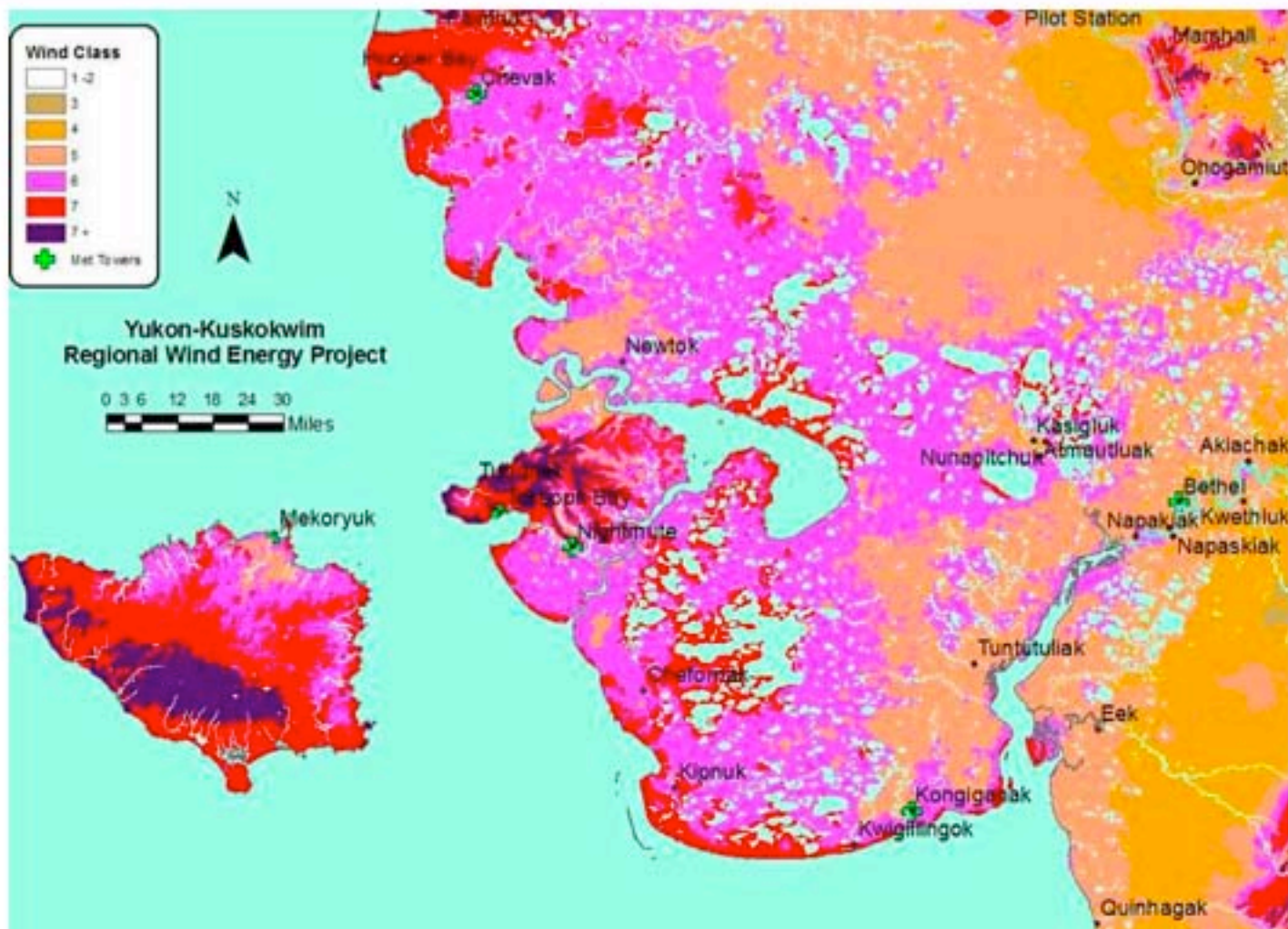
Alaska Wind Resource



Old map



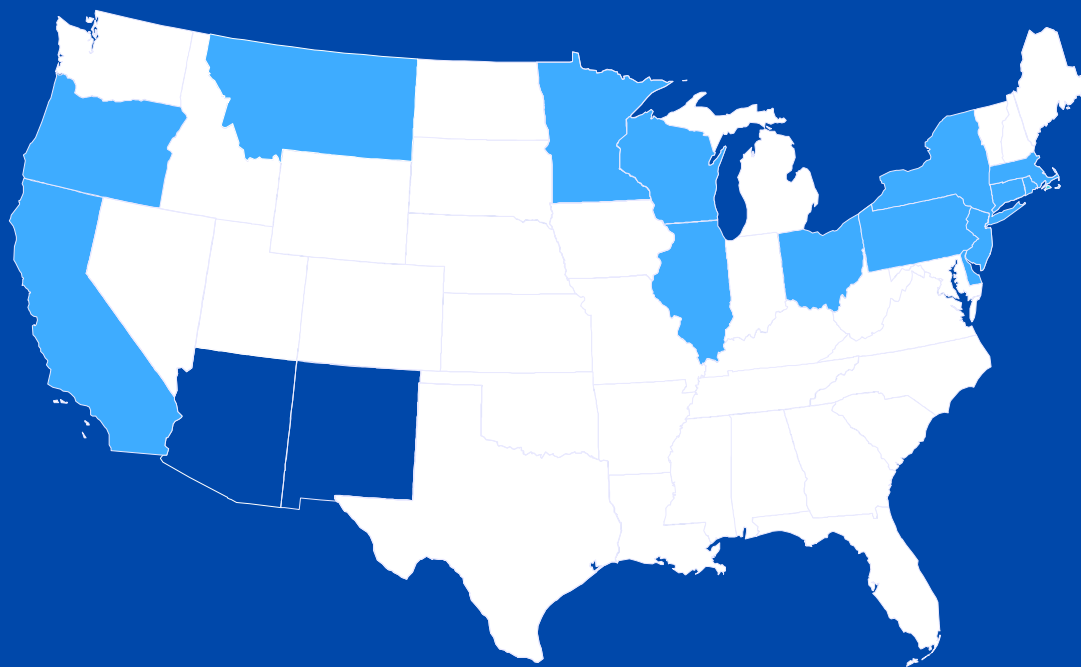
Wind Map of Y-K Region



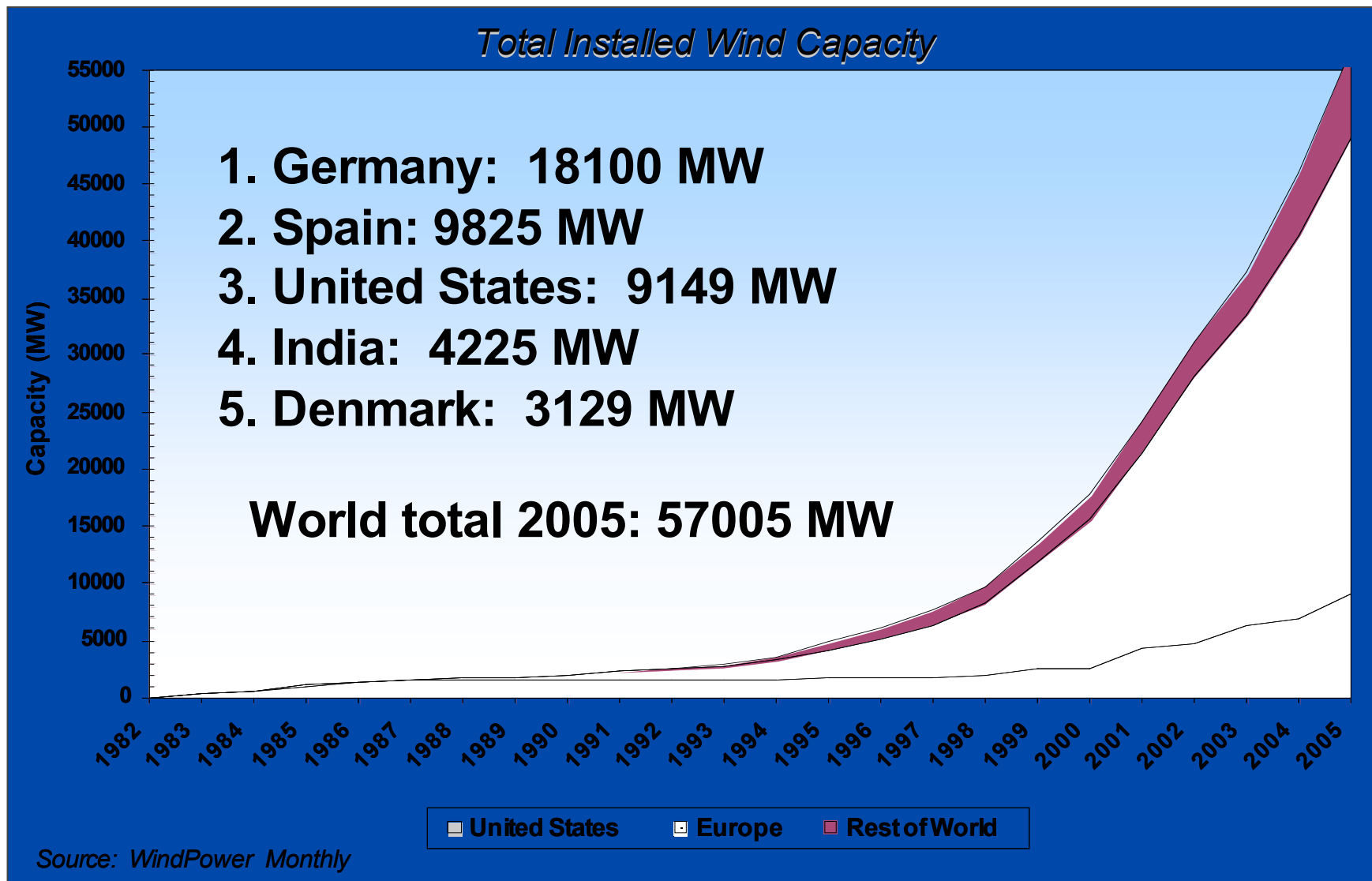
Class 6 and 7 Wind Regimes

State Clean Energy Funds

- 14 states, funded through system-benefits charges or other means
- More than \$4 billion through 2012
 - CA: >\$200 M/yr
 - OR: ~\$10 M/yr
 - MT: ~\$2 M/yr



World Growth Market



The \$40 billion/yr Clean Energy Market is Expected to Quadruple by 2015

- General Electric
- Goldman Sachs
- Siemens
- British Petroleum
- FedEx Kinkos



Alaskans and Climate Change

- Over 81% of Alaskans are convinced that global warming is happening and a majority (55%) believe it is caused primarily by human activities.
- Majorities of Alaskans believe that global warming is a serious threat to themselves and their family (55%), to their community (59%), Alaska as whole (71%) and to plants and animals (76%).
- Alaskans trust family and friends (86%), scientists (82%) and environmental organizations (63%) to tell the truth about global warming.
- They do not trust corporations (23%) or Alaskan politicians (29%) to tell the truth.

Leiserowitz, A. and Cracium J. 2006



Alaskans and Renewable Energy

- 91% of Alaskan voters support developing more sources of renewable energy – like wind and solar power – for use in Alaska.
- 72% registered this support as ‘strongly supports’.

Statewide Survey 7/06

Fairbanks, Maslin, Maullin & Associates



An Eco-nomic Vision

“I am convinced that only through an amalgam of economics and environmentalism can Alaska hope to sustain values which makes this a place most of us wish to live.”

Jay Hammond

Former Governor of Alaska

With some of the best renewable energy resources in the country, Alaska has an opportunity to lead again as an energy state and bring new revenue streams into the state's economy. Renewable energy can be Alaska's next permanent fund.

