

**TIM JUNE'S COMPREHENSIVE ENERGY PLAN FOR ALASKA**  
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The State of Alaska is benefiting from billions of dollars of new revenue from increased taxes on oil and the oil industry is reaping record profits. Meanwhile, many Alaskans and Alaska businesses are struggling with higher heating bills, increasing gas prices and rising electrical costs. The State of Alaska has an unprecedented opportunity to use our newfound wealth to respond more fully to our energy challenges and develop a comprehensive statewide energy system that addresses our energy needs for the next 50 years.

Our energy strategy must include a strong commitment to creating and using profits from our non-renewable resources like oil, gas and minerals to establish a sustainable multifaceted renewable energy infrastructure that includes hydro, wind, solar, geothermal, tidal and wave generation for Alaska. Oil and natural gas will continue to play an important, but diminishing transitional role during our energy switching implementation.

If we invest at least 10% of our oil tax profits into sustainable alternatives, we can reduce residential and commercial energy costs, and simultaneously create new jobs and business opportunities in the process. As electrical and energy costs drop, Alaska businesses then become more competitive, profitable and productive.

While the State has recently adopted a few energy programs like home weatherization, an energy rebate, and a renewable energy fund, we still haven't developed a comprehensive statewide strategy that coordinates long and short-term solutions. It is in Alaska's best interests to begin immediately because energy switching (e.g. transitioning from diesel to electrical) typically takes 20 years of concentrated effort and substantial investment.

Today, Oregon and Washington each already have 900 MW of wind power online. Alaska, which has the greatest wind resources of any state in the country, only has 1 MW of wind online. Rural Alaska is currently paying \$0.50/KW hour or more for diesel electrical generation, while wind power can be produced for \$0.04-\$0.06/KW hour. Kodiak Electric Association is currently erecting 7 large wind turbines and, with their existing hydro facilities, will produce 95% of their power with renewable energy by 2020. The rest of Alaska should follow their lead.

Germany, the world leader in solar power, gets less sun than cloudy Juneau, Alaska, yet solar panels produce 8% of Germany's energy. My wife and I built and have lived in a solar powered home in Haines for over 20 years and produce 80% of our own electricity from the sun.

Oregon State University has an engineering team developing wave generators that harvest the ocean's energy to produce electricity. Every three feet of coastline in Oregon has the potential to produce 50KW of power, enough to run 10 homes.

Alaska has 44,000 miles of coastline, plenty of potential to meet our needs.

## **My Comprehensive Energy Plan:**

### **Fund Renewable Energy Solutions**

- Pursue maximum return on our natural resources to fund our new renewable energy infrastructure.
- Elevate Energy to a cabinet level position with a Department of Energy whose sole responsibility is to provide affordable, efficient and clean energy to Alaskans.

### **Develop Long Term Renewable Energy Projects**

- Invest at least 10% of our non-renewable resource tax profits in Alaska renewable energy projects using hydro, wind, solar, tidal, wave and geothermal energy production.
- Invest in public transportation infrastructure that favors renewable sources and focus on efficiency and coordination of public transportation modes.
- Adopt an energy production rebate that encourages the installation of renewable energy systems for residential and commercial users.
- Bring electric vehicles into appropriate communities as demonstration projects to encourage innovation and entrepreneurial ideas so other Alaskans can follow suit.
- Develop adequate electrical capacity in each community to meet the projected operational needs for electric vehicles.
- Invest in electrical interties, where appropriate, to help provide cheaper and more reliable grid power to Alaskan communities.

### **Address Alaskans' Short-term Energy needs**

- Adopt net metering and interconnection standards that encourage direct public participation in energy production.
- Adopt policies that reward energy efficiencies and energy conservation.
- Expand weatherization and audit programs to include schools, municipalities, and businesses.
- Supplement funding for rural LIHEAP programs.
- Offer Alaskans a 30% rebate on installed solar panels or solar hot water systems. Using the federal government's 30% tax rebate, we can leverage millions of dollars of federal money to help pay for our renewable energy systems that will produce power at no additional cost for the next 50 years in Alaska.

- Buy 500 wind anemometers @\$300 each and lease them cost free to all Alaska schools and any interested residents to gather micro data on our wind resources.
- Investigate the feasibility of buying controlling interest in Flint Hills Refinery and then contract with private industry to refine enough of our royalty oil and gas to meet Alaska's essential in-state interim needs.
- Increase Alaska's oil and gas refining capacity to meet our short-term needs.

### **Encourage Alaskans to be Partners in the Energy Solution**

- Make competitive grants available for renewable energy pilot projects that test and demonstrate the feasibility of available and developing renewable technologies.
- Help Alaskan communities develop long-term Peak Oil strategies.
- Establish a pilot program to build and demonstrate energy efficient commercial fishing vessels, then grants and low interest loans to upgrade Alaska's fishing fleet.
- Establish low interest loan or grant programs for residential and commercial energy upgrades.
- Offer lower interest home loans for efficient residential design and construction.
- Offer low interest loans to municipalities to purchase fuel-efficient municipal vehicles.
- Broker an Alaskan royalty oil for solar panel trade agreement with oil producers that also manufacture solar panels. Partner with BP and other companies to buy/trade their solar panels in bulk and then make them available to Alaskans at wholesale prices.
- Partner with Native Corporations to coordinate and leverage their expertise, capital, and access to Federal resources to help develop renewable energy solutions for rural Alaska.

### **Invest in Public Education on Renewable Energy**

- Adopt a statewide program of public education for both K-12 and adults on energy efficiency and energy conservation.
- Develop a renewable energy curriculum for our schools, villages, and all interested Alaskans to start people thinking and acting on these available technologies.
- Invest in Research and Development of appropriate renewable technologies for Alaska through our university system.
- Develop green technology vocational schools to train Alaskans for new green jobs.

- Contract with vocational training schools and the International Brotherhood of Electrical Workers union (IBEW) to train Alaskans to install renewable energy systems creating new jobs for Alaskans.