

**New Energy for Alaska Communities**  
by Gwen Holdmann,  
Director of the Alaska Center for Energy and Power  
**Science for Alaska Lecture Series 2010**  
A list of materials about this topic provided by Aldean Kilbourn,  
Geophysical Institute Keith B. Mather Library



**Internet Resources**

**GENERAL INFORMATION (ALL SITES ACCESSIBLE AS OF 18 JANUARY 2010)**

- ABS Alaskan: Alternative Energy and Remote Power Products.  
<<http://www.absak.com/>>
- ACEP Alaska Center for Energy and Power . University of Alaska Fairbanks.  
<<http://www.uaf.edu/acep/>>.
- AEA: Alaska Energy Authority. 2010.  
<<http://www.akenergyauthority.org/>>.
- Alaska Energy Network. 2010.  
< <http://www.akenergynetwork.com/>>.
- Alaska Energy Wiki.  
< <http://www.energy-alaska.com/>>.
- AlaskaSun.  
<<http://www.alaskasun.org/>>.
- CCHRC Cold Climate House Research Center. 2007.  
<<http://www.cchrc.org/>>.
- The Denali Commission.  
<<http://www.denali.gov/>>.
- National Renewable Energy Laboratory.  
<<http://www.nrel.gov/>>.
- Rozell N. 2009. Biofuel chugs on during a cold Alaska night. Alaska Science Forum, no.1952.  
<<http://www.gi.alaska.edu/ScienceForum/ASF19/1952.html>>.
- Rozell N. 2007. Heating today with an idea from yesterday. Alaska Science Forum, no.1883.  
<<http://www.gi.alaska.edu/ScienceForum/ASF18/1883.html>>.
- REAP: Renewable Energy Alaska Project. 2010.  
<<http://alaskarenewableenergy.org/>>.
- Solar-Alaska.  
<<http://www.solaralaska.com/>>.



## Book Resources

- Craddock, D. 2008. *Renewable Energy Made Easy: Free Energy from Solar, Wind, Hydropower, and Other Alternative Energy Sources*. Ocala, FL: Atlantic Publishing Company, 287 p.
- Fridell, R. *Earth-friendly Energy*. Minneapolis, MN : Lerner Publications, 2009. 72p.  
Describes the alternative methods of generating energy instead of using fossil fuels, including solar power, wind power, and biofuels, and speculates on the future of alternative energy. Easy reader.
- Morgan, S. 2009. *Alternative Energy Sources*. Chicago, Ill. : Heinemann Library, 2009. 64p.  
Chapters: A fossil-fueled world; Making and storing electricity; Harnessing the wind; Trapping light; Water power; Heat from the ground; Nuclear energy; Biopower; The future of renewable sources. Easy reader.
- Nakaya, A. C. *Energy Alternatives*. San Diego, CA: ReferencePoint Press, Inc., 2008. 112p.  
Overview of issues involving alternative energy sources, discussing whether or not they are necessary, the viability of different sources, their use for transportation, and how their use would affect society. Easy reader.
- Nicholls, D. L., Miles, T. *Cordwood energy systems for community heating in Alaska* : Portland, OR : U.S. Dept. of Agriculture, Forest Service, Pacific Northwest Research Station, 2009. 18 p.  
Wood has become an important energy alternative in Alaska, particularly in rural areas where liquid fuel costs can be substantial. In some cases, wood fuel is readily available to communities, increasing the attractiveness of wood energy. Wood energy systems in rural Alaska can also lead to employment gains as well as benefits to local cash economies. Many Alaska villages are now considering wood as a fuel source for community heating, several have completed feasibility studies, and others are moving forward with design and construction activities. Cordwood is readily available in many regions of Alaska, although not always in commercial quantities. However, for many small-scale applications, efficient cordwood systems could be a viable energy option. In this paper, we provide a qualitative review of factors such as wood fuel availability, cordwood system size, wood fuel cost, wood quality, labor, fuel drying, and underground piping. Other general observations are noted, based on case studies of operating cordwood systems in Alaska. (author abstract)
- Rau, D.M. *Alternative energy : beyond fossil fuels*. Mankato, MN : Compass Point Books, 2010. 64 p.  
Alternative energy sources such as water, wind, and sun provide a promising and environmentally friendly solution to our looming energy crisis. Easy reader.



## Video and Electronic Resources

- Life After Oil [videorecording] : the new energy alternatives / produced by Centre Communications, Inc. ; producers, Ron Meyer and James M. Roberts ; director, Ron Meyer. New York, NY : Ambrose Video, 2008. 1 videodisc (30 min.).
- Murkowski hears Alaska's visions on alternative energy [microfilm]. *Alaska Journal of Commerce*, (Aug 30, 2009) p. 33. [available at Rasmuson Library: ALASKA PER MFILM 1031].
- United States. Congress. Senate. Committee on Indian Affairs (1993- ). *The impact of high energy costs in rural Alaska native communities and opportunities for alternative and conventional energy development [electronic resource] : field hearing before the Committee on Indian Affairs, United States Senate, One Hundred Tenth Congress, second session, August 28, 2008*. Washington : U.S. G.P.O., 2009.