

Sustainable Energy Annotated Bibliography

Archer, Christina L., and Mark Z. Jacobson. "Supplying Baseload Power and Reducing Transmission Requirements by Interconnecting Wind Farms." *Journal of Applied Meteorology and Climatology* 46 (2007): 1701-717. Print. Wind is the world's fastest growing energy source. Because it is intermittent, though, wind is not used to supply baseload electric power currently. This article suggest that interconnecting wind farms through the transmission grid is a simple and effective way of reducing deliverable wind power swings caused by intermittency. As more wind farms are connected in an array, wind speed correlation among sites decreases and so does the probability that all sites experience the same wing regime at the same time. This study examines the benefits of interconnected wind farms at 19 sites located in the Midwestern U.S. It concluded that an average of 33% and a maximum of 47% of yearly averaged wind power from interconnected farms can be used a reliable, baseload electric power. Additionally the authors found that interconnecting multiple wind farms to a common point and then connecting that point to a far away city can allowed the long distance portion of capacity to be reduced by approximately 20% with only a 1.6% loss of energy. www.stanford.edu/group/efmh/winds/aj07_jamec.pdf

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Brown, Steven E.F. "Renewable Energy Passes Nuclear as U.S. Power Source." *Denver Business Journal* January (2012): 1-2. Web. 9 Aug. 2012. A article from the Denver Business Journal which outlines renewable energy passing nuclear energy as a power source in the United States. A report by the EIA showed that renewable energy sources generated 6.944 quadrillion Btus of energy compared to 6.173 quadrillion Btus from nuclear power. Solar energy production grew from 82 trillion Btus to 87 trillion Btus during this time period. <http://www.bizjournals.com/denver/news/2012/01/10/renewable-energy-passes-nuclear-as.html?page=2>

Clean, Secure Energy and Economic Growth: A Commitment to Renewable Energy and Enhanced Energy Independence. Rep. Vol. 1. Albany, NY: Renewable Energy Task Force, 2008. Print. A policy roadmap for addressing the potential of the state of New York in utilizing renewable energy resources to meet its growing energy needs. The report notes that New York is home to the largest capital investment firms in the world, the 14th windiest state in the country, and has a great potential for development of solar, natural hydropower and biomass energy production. The report notes that to utilize these resources and achieve energy independence requires a modification of the way we live our lives, and public acceptance that each of us can make a difference in this effort. It will require consumers, policy makers, and businesses to collaborate and move forward with the same goal in mind. www.citizenscampaign.org/PDFs/It_RETf_Report.pdf

Clemmer, Steve. "U.S. Renewable Electricity Future Is Within Reach." Weblog. *The Equation*. Union of Concerned Scientists, 8 Aug. 2012. Web. 13 Aug. 2012. Blog post from the Union of Concerned Scientists about the release of a report from the National Renewable Energy Laboratory (NREL) stating that the U.S. could generate 80% of its energy needs by 2050 with commercially available technologies while also meeting peak demand every hour of every day in every part of the country. The 850 pages part is arguably the most comprehensive review of the potential of renewables for the future of the U.S. It includes detailed assessments of costs, opportunities and challenges for all renewable sources and how they can be potentially integrated into the electricity system. Major findings include; no new technologies are needed, energy can be provided every hour in every sector, multiple options are possible in every sector and use of renewables will have benefits for climate change and water management. The report suggests new policies are needed to drive these substantial changes. <http://blog.ucsusa.org/u-s-renewable-electricity-future-is-within-reach>

Corcoran, Bethany A., Nick Jenkins, and Mark Z. Jacobson. "Effects of Aggregating Electric Load in the United States." *Energy Policy* 46 (2012): 399-416. Print. This study quantifies the effects of aggregating electric load over various combinations (Aggregation Groupings) of the 10 FERC regions in the U.S. Generator capacity capital cost

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Table of Contents Sustainable Energy An Annotated Bibliography

1. Understanding the eBook Sustainable Energy An Annotated Bibliography
 - The Rise of Digital Reading Sustainable Energy An Annotated Bibliography
 - Advantages of eBooks Over Traditional Books
2. Identifying Sustainable Energy An Annotated Bibliography
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Sustainable Energy An Annotated Bibliography
 - User-Friendly Interface
4. Exploring eBook Recommendations from Sustainable Energy An Annotated Bibliography
 - Personalized Recommendations
 - Sustainable Energy An Annotated Bibliography User Reviews and Ratings
 - Sustainable Energy An Annotated Bibliography and Bestseller Lists
5. Accessing Sustainable Energy An Annotated Bibliography Free and Paid eBooks
 - Sustainable Energy An Annotated Bibliography Public Domain eBooks
 - Sustainable Energy An Annotated Bibliography eBook Subscription Services
 - Sustainable Energy An Annotated Bibliography Budget-Friendly Options

6. Navigating Sustainable Energy An Annotated Bibliography eBook Formats
 - ePub, PDF, MOBI, and More
 - Sustainable Energy An Annotated Bibliography Compatibility with Devices
 - Sustainable Energy An Annotated Bibliography Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Sustainable Energy An Annotated Bibliography
 - Highlighting and Note-Taking Sustainable Energy An Annotated Bibliography
 - Interactive Elements Sustainable Energy An Annotated Bibliography
8. Staying Engaged with Sustainable Energy An Annotated Bibliography
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Sustainable Energy An Annotated Bibliography
9. Balancing eBooks and Physical Books Sustainable Energy An Annotated Bibliography
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Sustainable Energy An Annotated Bibliography
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Sustainable Energy An Annotated Bibliography
 - Setting Reading Goals Sustainable Energy An Annotated Bibliography
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Sustainable Energy An Annotated Bibliography
 - Fact-Checking eBook Content of Sustainable Energy An Annotated Bibliography
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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