APPENDIX J: OTHER INFORMATION AND WEBSITES OF INTEREST

The following documents are contained in the electronic folder for Appendix J:

Entity	Document	Focus
Atlantic Renewable Energy Corporation and AWS Scientific Inc.	New Jersey Offshore Wind Energy: Feasibility Study Final Version (Nov 2004)	Feasibility of utility-scale wind energy development offshore New Jersey, about 2,465 sq.mi.
AWEA	Wind Energy Today	WSLCA-ELRC Joint Conference presentation
B.Crouch LA DNR	History and Recent Developments in Louisiana Wind Energy (Feb 2005 Update)	Background information and current status of Offshore Wind Energy in Louisiana
National Conference of State Legislatures	State Siting and Permitting of Wind Energy Facilities	Guidelines fact sheets for 9 states: CT, IA, KS, MA, MN, OR, VT, WA, WI

Links to Websites of Interest By Renewables Category

IN-RIVER FLOW

Caledonian Energy Management Ltd (UK). 2000. *Monitoring of successful renewables obligation small hydro projects.*
http://www.berr.gov.uk/files/file15359.pdf
Summary of review of 38% successful projects for "lessons learned

Hanson, K. et al (UK). 2000. Hydraulic design and optimization of new and existing intakes.
http://www.berr.gov.uk/files/file20898.pdf
Guide on design and computer modeling

United Kingdom, Department of TI. 2004. *Hydropak: Concept design and analysis of a packaged cross-flow turbine*
http://www.berr.gov.uk/files/file15977.pdf
Concept design, installation, operation, and maintenance assessment of HydroPak

TIDE AND WAVE

Bedard, R., et al *EPRI Ocean Wave Energy Conversion Technology*
http://oceanenergy.epri.com/attachments/ocean/reports/WGA_Ocean_Energy_White_Paper_12-15-05.pdf
White Paper submitted to the Western Governors Association Clean and Diversified Energy Advisory Committee

Bedard, R.et al. *EPRI Economic Assessment Methodology for Tidal In-Stream Power Plants (Rev.2)*
http://oceanenergy.epri.com/attachments/streamenergy/reports/002_TP_Econ_Methodology_06-10-06.pdf
North American Tidal Flow Power Feasibility Demonstration Project

BWEA (UK) *Why marine?*
http://www.bwea.com/pdf/marine/FINAL%20WHY%20MARINE.pdf
BWEA presentation regarding ocean energy

California Energy Commission. 2005. *Small Hydro and Ocean Wave Resources*
http://www.energy.ca.gov/2005_energypolicy/documents/2005-05-09_workshop/presentations/Michael_Kane_Small_Hydro_Ocean_Energy_2005-05-09.PDF
Presentation to 2005 Integrated Energy Policy Report Workshop

CJ Day Associates for DTI (UK). 2001. *Tidal turbine installation at fixed navigation marks.*
http://www.berr.gov.uk/files/file18031.pdf
Studies relative merits tethered turbine buoys to piled foundation designs; summarizes costs

DTI (UK). *Near Shore Oscillating Wave Column – Prototype Development and Evaluation*
http://www.berr.gov.uk/files/file17347.pdf
Studied three different buoys, cost to build, efficiency, and operating economics

DTI (UK). 2004. *Cycloidal Tidal Power Generation – Summary.*
http://www.berr.gov.uk/files/file16415.pdf
Combined summary for Phase 1 and 2 reports: specific performance information

DTI (UK). 2007. *Economic viability of a simple tidal stream energy capture device.*
http://www.berr.gov.uk/files/file37093.pdf
Analysis of life cycle costs and competitiveness of two horizontal axis devices

Hawaii Department of Business, Economic Development, and Tourism. 2002. *Feasibility of Developing Wave Power as a Renewable Energy Resource for Hawaii.*
http://hawaii.gov/dbedt/main/about/annual/2002-wave.pdf
A review of constraints and costs associated with developing Hawaii's wave energy resources

JA Consult Ltd. for DTI (UK). 2004. *The monitoring, operation and assessment of a semi-submersible tidal stream prototype.* http://www.berr.gov.uk/files/file15376.pdf
Turbine tested in a pool, commissioned in the Thames, modified to improve behavior and operated in both tidal flow directions over a 15 month period; results: more detailed conceptual and feasibility work needed

Oreada for DTI (UK). 2005. *Potential applications for Flettner Rotors and Turbosails in Tidal Stream Turbines* http://www.berr.gov.uk/files/file17770.pdf
Compares vertical and horizontal axis machines

QinetiQ Ltd for DTI (UK). 2004. *Cycloidal Tidal Power Generation – Phase 1*
http://www.berr.gov.uk/files/file15353.pdf
Performance prediction model for six designs off coast of Scotland

QinetiQ Ltd for DTI (UK). 2004. *Cycloidal tidal power generation – phase 2*
http://www.berr.gov.uk/files/file15352.pdf
Analytical and physical modeling studies for cycloidal tidal project to understand fluid flows

Thake, J. IT Power for DTI (UK). 2005. *Development installation and testing of a large-scale tidal current turbine.* http://www.berr.gov.uk/files/file18130.pdf
Cradle-to-grave look at a pilot project – horizontal axis machine

WIND

AFWA and USFWS. 2007 *Wind Power Siting, Incentives and Wildlife Guidelines in the United States* http://www.fws.gov/midwest/Eco_Serv/wind/guidance/AFWASitingSummaries.pdf
Each state is summarized by voluntary and zoning guidelines

Applied Technology & Management and Loria Emerging Energy Consulting. 2007. *Summary Report RIWINDS (Rhode Island Energy Independence 1) Phase I Siting Study*
http://www.energy.ri.gov/documents/renewable/RIWINDS_RANKING.pdf
Synopsis of full report; site ranking based on specific factors

AWEA, *Wind Power Outlook 2007.* http://www.awea.org/pubs/documents/Outlook_2007.pdf

Bollinger, M. 2004. *Case studies of State Support for Renewable Energy: A Survey of State Support for Community Wind Power Development* Berkeley Lab and CESA
http://www.cleanenergystates.org/CaseStudies/LBL_community_wind_final.pdf
State policy maker support for community projects (based on European design)

Bureau of Land Management (2003) *Assessing the Potential on Public Lands*
http://www.eere.energy.gov/windandhydro/windpoweringamerica/pdfs/33530_public_lands.pdf

CESA. *Best Practice Recommendation: A Visual Impacts Assessment Process for Evaluating Wind Energy Projects.* http://www.cleanenergystates.org/JointProjects/wind-siting/CESA_Recommendation_Visual_Impacts_Assessment_WindEnergy_Aug07.pdf
Practical recommendations for assessing visual impacts

Clean Energy Group. 2001. *CEFN Case Study #1 – Madison (NY) Windpower Project.* http://www.cleanenergystates.org/CaseStudies/Madison_Wind-final.pdf
"Lessons learned" report on first wind facility in East to receive Clean Energy Funds and decision-process for funding

DOE EERE. *Wind Energy Multi-Year Program Plan for 2007 to 2012* http://www1.eere.energy.gov/windandhydro/pdfs/40593.pdf
Distribution, systems integration, large wind technology and technology acceptance

DOE EERE. 2007. *Annual Report on US Wind Power Installation, Cost, and Performance Trends: 2006* http://www1.eere.energy.gov/windandhydro/pdfs/41435.pdf
2006 Market report

DOE EERE. 2006. *Wind Energy Guide for County Commissioners* http://www.eere.energy.gov/windandhydro/windpoweringamerica/pdfs/wpa/county_commissioners.pdf
Guidebook addressing 13 topics, including economics, public outreach, permitting, and siting

DOE EERE. *State Wind Working Group Handbook* http://www.eere.energy.gov/windandhydro/windpoweringamerica/pdfs/wpa/34600_wind_handbook.pdf
Addresses basic and technical issues (wind assessment, siting, transmission, economics, utility integration, and process; includes powerpoint presentations on topics

DTI (UK). 2007. *Delivering community benefits from wind energy development: A Tooklit.* http://www.berr.gov.uk/files/file38710.pdf
Options for negotiation and benefits for local communities

DTI (UK). 1996. *The Assessment and Rating of Noise from Wind Farms – Executive Summary.* http://www.berr.gov.uk/files/file20433.pdf
Measuring wind farm noise and suggested limits (Exec summary and Table of Contents only -- Part 1 of 17) Balance of the report can be found at the following website: (http://www.berr.gov.uk/energy/sources/renewables/explained/wind/onshore/page21743.html

French, M. for LA DNR (1981) *Evaluating Wind Energy Potential in Louisiana.* http://dnr.louisiana.gov/sec/execdiv/techasmt/energy_sources/wind/windreport1981.html
Methods to assess onshore potential of wind in Louisiana

Global Energy Concepts, LLC. *Indiana Energy Group Tall Towers Wind Study Final Project* http://www.state.in.us/energy/technologies/Indiana%20Final%20Project%20Report.pdf
Description of monitoring sites, results of data collection and map validation, and final Indiana wind maps

Kansas Energy Council. 2005. *Wind Siting Handbook: Guideline Options for Kansas Cities and Counties* http://www.kansasenergy.org/KEC/documents/wind_siting_handbook.pdf
Voluntary guidelines for cities and counties with wind development; addresses impacts and process

National Wind Coordinating Committee Siting Subcommittee. 2002. *Permitting of Wind Energy Facilities: a handbook Rev.* http://www.nationalwind.org/publications/siting/permitting2002.pdf
Overview, guidelines for permitting processes, and permitting considerations with three case studies (OR, MN, and WI)

NEXRAD Program. 2007. *Actions and Siting Suggestions for Wind Farms* .
http://www.roc.noaa.gov/windfarm/Actions%20and%20Siting%20Suggestions.pdf
Radar operations avoidance

Palmer. B.and B.Isom. 2007. *Update of Wind Turbine Clutter Study at the University of Oklahoma*
http://www.roc.noaa.gov/app/TAC/TAC_mtgs_2007/presentations/Palmer_TAC_March2707.pdf
Presentation to NEXRAD PMC Meeting April 2007

Sherwell, J. Maryland Department of Natural Resources *Wind power in Maryland: an overview*
http://www.dnr.state.md.us/sustainability/wpm/windonpl_03130_final.pdf

Vermont Agency of Natural Resources. 2004. *Wind Power Project Construction and Operations Requirements* – Fact Sheet
http://www.vermontwindpolicy.org/factsheets/Project%20Construction%20Requirements1.pdf
Addresses size, spacing, Met Towers, access, lighting, operations, and life span

VT ANR. 2004. *Wind Power FAQs* – Fact Sheet
http://vermontwindpolicy.org/factsheets/FAQ1.pdf
Addresses noise, Met Towers, ice throw, small vs. utility scale, pwer generation

Wind Energy Section, ETSU (UK). 1999. *Assessing the Potential of Wind Energy Projects – Notes for Developers, Rev.* http://www.berr.gov.uk/files/file17833.pdf
Costs, environmental considerations, economic assessment

WIND - OFFSHORE

Crouch, B. 2004. (LA DNR) *Offshore Louisiana Wind Power, Louisiana Energy Topic*
http://dnr.louisiana.gov/sec/execdiv/techasmt/newsletters/2001_2005/2004-12_topic.pdf
Assessment of offshore wind program in Louisiana

Dhanju, A. et al. 2005. *Assessment of Delaware Offshore Wind Power*. College of Marine Studies. University of Delaware.
http://www.ocean.udel.edu/windpower/docs/BurDhanWhit05-MAST667-FINAL.pdf

Harland and Wolff Licences Ltd (UK). 2001. *Base design and foundation installation design feasibility* http://www.berr.gov.uk/files/file20291.pdf
Study of current concepts and installation methods; feasibility study

Sprehe B. and B.Crouch. 2005. *Economics of Offshore Wind Power*
http://dnr.louisiana.gov/sec/execdiv/techasmt/newsletters/2001_2005/2005-02_topic.pdf
Economics of offshore wind energy -- Louisiana

ALL RENEWABLES

Hawaii Department of Land and Natural Resources. *A Catalog of Potential Sites for Renewable Energy in Hawaii* http://hawaii.gov/dbedt/info/energypublications/cpsre07.pdf
State-wide listings of prospective sites and information on the major resources

GENERAL INFORMATION

ORGANIZATIONS

American Council on Renewable Energy (ACORE) is a non-profit organization based in Washington, D.C. Members are industry, government and trade associations. Focus is on wind, solar, geothermal, biomass and biofuels, hydropower tidal/current energy and waste energy.
http://www.acore.org/about/

American Wind Energy Association (AWEA). An advocacy group for the promotion of wind energy. Members are consultants, trade associations, and academic/scientific professionals. The website contains fact sheets on energy, siting, wildlife issues, and resource information. AWEA has the most extensive website for wind energy projects – existing and proposed. Most other websites link to this organization's market report and project-specific listing.
http://www.awea.org/

British Wind Energy Association (BWEA). An advocacy group for trade and professionals in the UK. BWEA is the leading renewable energy trade association in the UK.
http://www.bwea.com

Clean Energy States Alliance (CESA) is a nonprofit organization with members from 16 clean energy funds and two state agencies; it provides information and technical services to its members and works with them to build and expand clean energy markets in the United States. State agency members (Alaska, Arizona, California, Colorado, Connecticut, Illinois, Maryland, Massachusetts, Minnesota, New Jersey, New Mexico, New York, Ohio, Oregon, Pennsylvania, Rhode Island, Vermont, and Wisconsin). with established clean energy funds or programs have

banded together to promote clean energy technologies. The website has a list of CESA projects and publications as well as helpful links. http://www.cleanenergystates.org/index.html

Electric Power Research Institute (EPRI). A non-profit organization that conducts research and development on technology, operations and the environment for the global electric power sector. Members are domestic and international electric providers. Website links for reports on alternative energy research and projects. http://epri.com/

Global Wind Energy Council (GWEC). An advocacy group for the promotion of wind energy internationally. The site has publications for global wind projects, market reports, and policy statements. http://www.gwec.net

Ocean Renewable Energy Coalition (OREC) A national trade association for the marine renewable energy industry in the United States. Represent more than forty members. http://www.oceanrenewable.com

Ocean Renewable Energy Group (OREG) A Canadian organization involving industry, academia and government in ocean energy solutions. Members are Canadian and international. Site has links for ocean energy reports. http://www.oreg.ca/

Renewable Energy Association (REA) Represents British renewable energy producers and promote the use of sustainable energy in the UK. http://www.r-e-a.net/home.fcm

Scottish Renewables. The forum for Scotland's Renewable Energy Industry. http://www.scottishrenewables.com/

US DOE Office of Energy Efficiency and Renewable Energy. EERE's mission is to strengthen America's energy security, environmental quality, and economic vitality in public-private partnerships. Site has reports and links for market reports, research, and technology information. http://www.eere.energy.gov/

World Energy Council (WEC) A multi-energy organization in the world today. Membership in nearly 100 countries. Covers coal, oil, natural gas, nuclear, hydro, and renewables. Publications include energy policies for different world regions. http://www.worldenergy.org/

MISCELLANEOUS STUDIES, REPORTS AND TECHNICAL INFORMATION

Lunar Energy http://www.lunarenergy.co.uk/

Marine Current Turbines Ltd http://www.marineturbines.com

Pulamis Wave Power http://www.pelamiswave.com/

Powering the South. 2001. Renewable Energy Policy Project
http://www.crest.org/articles/static/1/binaries/pts_repp_book.pdf