Divita Bhandari, Senior Associate

Synapse Energy Economics I 485 Massachusetts Avenue, Suite 3 I Cambridge, MA 02139 I 617-453-7023
dbhandari@synapse-energy.com

PROFESSIONAL EXPERIENCE

Synapse Energy Economics, Inc., Cambridge, MA. *Senior Associate,* May 2018 - present.

Provides consulting and researching services, writes reports and testimony and performs modeling on a wide range of issues related to the electric industry with a focus on grid infrastructure issues, resource planning, DER policy, energy efficiency and electricity markets. Conducts analysis in utility rate-cases, distribution, and grid modernization capital invesment planning focusing on benefit cost-analysis. Performs electric dispatch and production cost modeling to conduct analyses of utility service territories and regional energy markets.

DNV GL, Boston, MA. *Senior Energy Analyst*, July 2014 - April 2018.

- Quantified energy saving impacts associated with energy efficiency and demand response programs.
- Developed regression models using electric and gas consumption data to evaluate key programs such as home energy reports, in-home energy assessments, and strategic energy management.
- Analyzed AMI data to evaluate peak load shaved through the control of residential air conditioners.

Yale School of Forestry and Environmental Studies, New Haven, CT. *Graduate Research Assistant*, September 2013 - July 2014.

Developed Spatial Analysis algorithms utilizing R and GIS to derive county specific solar radiation values based on interpolation of weather station data in California.

Climate Policy Initiative, Hyderabad, India. *Research Analyst,* May 2013 - July 2013.

Analyzed the design and implementation of an energy efficiency certificate trading scheme implemented by the Bureau of Energy Efficiency and assessed the impact and cost effectiveness of the policy.

General Electric, Houston, TX. *Electrical Application Engineer,* May 2009 - April 2012.

Lead technical interface to global gas turbine clients. Lead a team of engineers to respond to customer RFPs and provide cost quotations. Recommended gas turbine design improvements to achieve compatibility with international codes, emission regulations, and electric grid codes in various countries.

General Electric, Various, *Edison Engineering Development Program,* June 2007 - April 2009.

- Built MATLAB algorithms to model impact of seasonal variation and blade types on performance of wind turbines and recommended anemometer design improvements through analysis of real time wind data.

- Developed solutions for providing cost-effective performance warranty tests to wind energy customers in accordance with IEC standards.
- Developed design improvements to increase efficiency in solar power converters for implementation across entire product line.

EDUCATION

Yale University School of Forestry and Environmental Studies, New Haven, CT
Master of Environmental Management; Specialization in Energy and the Environment, 2014
Awards: Coca Cola World Fund Fellow, Berkeley Conservation Scholar, Carpenter-Sperry Fund

Georgia Institute of Technology, Atlanta, GA
Master of Science in Electrical Engineering, Electric Power Systems, 2010
Bachelor of Science in Electrical Engineering, 2006
Awards: Recipient of GE, TI, and IBM Scholarships

SKILLS

Proficient in MATLAB, R, SAS, and ArcGIS

PUBLICATIONS

Bhandari, D., M. Chang, P. Eash-Gates, J. Frost, S. Letendre, J. Litynski, C. Roberto, A. Takasugi, J. Tabernero. R. Wilson. 2021. *Exelon Illinois Nuclear Fleet Audit*. Synapse Energy Economics for Illinois Environmental Protection Agency.

Woolf, T., D Bhandari, C. Lane, J. Frost, B. Havumaki, S. Letendre, C. Odom. 2021. *Benefit-Cost Analysis of the Rhode Island Community Remote Net Metering Program*. Synapse Energy Economics for the Rhode Island Division of Public Utilities and Carriers.

Woolf, T., L. Schwartz, B. Havumaki, D. Bhandari, M. Whited. 2021. *Benefit-Cost Analysis for Utility-Facing Grid Modernization Investments: Trends, Challenges, and Considerations.* Prepared by Lawrence Berkeley National Laboratory and Synapse Energy Economics for the Grid Modernization Laboratory Consortium of the U.S. Department of Energy.

Bhandari, D., R. Wilson, B. Havumaki, J. Hall, K. Takahashi, J. Frost. 2020. *West Virginia's Energy Future: Technical Appendix.* Prepared for GridLab and Sustainable Development at West Virginia University College of Law.

Knight, P., C. Odom, E. Camp, D. Bhandari, J. Frost. 2020. *Solar Siting Opportunities for Rhode Island: An analysis of potentials and costs of rooftop, landfill, gravel pit, brownfield, commercial and industrial ground-mounted and carport solar.* Synapse Energy Economics for Rhode Island Office of Energy Resources.

Glick, D, D. Bhandari, C. Roberto, T. Woolf. 2020. *Review of benefit-cost analysis for the EPA's proposed revisions to the 2015 Steam Electric Effluent Limitations Guidelines.* Synapse Energy Economics for Earthjustice and Environmental Integrity Project.

White, D., K. Takahashi, M. Whited, S. Kwok, D. Bhandari. 2019. *Memphis and Tennessee Valley Authority: Risk Analysis of Future TVA Rates for Memphis.* Synapse Energy Economics for Friends of the Earth.

Knight, P., E. Camp, D. Bhandari, J. Hall, M. Whited, B. Havumaki, A. Allison, N. Peluso, T. Woolf. 2019. *Making Electric Vehicles Work for Utility Customers: A Policy Handbook for Consumer Advocates.* Synapse Energy Economics for the Energy Foundation.

Camp, E., A. Hopkins, D. Bhandari, N. Garner, A. Allison, N. Peluso, B. Havumaki, D. Glick. 2019. *The Future of Energy Storage in Colorado: Opportunities, Barriers, Analysis, and Policy Recommendations.* Synapse Energy Office for the Colorado Energy Office.

Napoleon, A., B. Havumaki, D. Bhandari, T. Woolf. 2019. *Review of New Brunswick Power's Application for Approval of an Advanced Metering Infrastructure Capital Project: In the Matter of the New Brunswick Power Corporation and Section 107 of the Electricity Act; Matter No. 452.* Synapse Energy Economics for the New Brunswick Energy and Utilities Board Staff.

Wilsons, R., D. Bhandari. 2019. *The Least-Cost Resource Plan for Santee Cooper: A Path to Meet Santee Cooper's Customer Electricity Needs at the Lowest Cost and Risk.* Synapse Energy Economics for the Sierra Club, Southern Environmental Law Center, and Coastal Conservation League.

Havumaki, B., E. Camp, B. Fagan, D. Bhandari. 2019. *Planning for the Future at the CTGS Site: Report on the Decommissioning Proposal of Maritime Electric*. Synapse Energy Economics for Carr, Stevenson, and MacKay.

Whited, M., J. Kallay, D. Bhandari, B. Havumaki. 2018. *Driving Transportation Electrification Forward in Pennsylvania: Considerations for Effective Transportation Electrification Ratemaking*. Synapse Energy Economics for Natural Resources Defense Council.

Ackerman, F., S. Fields, A. Napoleon, D. Bhandari. 2018. *Can Clean Energy Replace California Oil Production? Petroleum cutbacks and the California economy*. Report by Synapse Energy Economics.

TESTIMONY

Colorado Public Utilities Commission (Proceeding No. 21A-0141E): Answer Testimony of Divita Bhandari regarding the Public Service Company of Colorado's 2021 Electric Resource and Clean Energy Plan. Synapse Energy Economics on behalf of the Colorado Energy Office. October 11, 2021.

Resume updated January 2021.