

## Eric Borden, Principal Associate

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### PROFESSIONAL EXPERIENCE

**Synapse Energy Economics, Inc.**, Cambridge, MA. *Principal Associate*, May 2022 – Present

- Sponsors expert testimony and performs analyses related to utility electric vehicle incentives and policy, wildfire mitigation strategies and costs, risk modeling, rate design, cost allocation, and revenue requirement issues in General Rate Cases and Multi-year Rate Plans.
- Conducts research and analysis related to the cost-effectiveness of distributed energy resources and Integrated Resource Plans.
- Examines utility performance incentives and provides expertise on ratemaking issues.

**The Utility Reform Network (TURN)**, San Francisco, CA, *Energy Policy Expert*, February 2015 - May 2022

- Prepared testimony, conducted analyses, drafted comments, and represented TURN in various proceedings at the California Public Utilities Commission (CPUC) related to general rate cases, wildfire-related safety applications, electric vehicle charging infrastructure, utility procurement, rate design, and demand response.

**4 Thought Energy LLC**, Chicago, IL. *Senior Energy Analyst*, June 2013 – January 2015

- Created financial models to forecast profits of potential site installations
- Researched state and regional public policy frameworks governing CHP
- Conducted analyses over electricity and natural gas price trends
- Developed presentations and marketing materials for investor meetings

**International Renewable Energy Agency (IRENA)** Bonn, Germany. *Consultant*, February 2014 – October 2014

- Hired to write a report on worldwide electricity sector battery storage, including primary applications for renewable energy integration, market developments, trends, and case studies
- Conduct research, review literature, interview key industry players, develop case study material
- Travel to Bonn, company sites, and research facilities
- Written report will be sent to policymakers in 167 IRENA member countries

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**Alexander von Humboldt Foundation** (hosted by DIW Berlin), Berlin, Germany. *German Chancellor Fellow*, July 2012 – November 2013

- Research Project: “Energy Storage Technology and the Large-Scale Integration of Renewable Energy”
- Investigated the role of energy storage in Germany for renewable integration through literature review, interviews with German energy experts, and analysis comparing public policy support in Germany and the U.S. for storage technologies
- Invited to hold a presentation at the International Renewable Energy Storage Conference and Exhibition (IRES 2013)
- Discussions with German businesses and governmental ministries; special visit to European Union and NATO headquarters in Brussels
- Attended energy conferences and workshops in Berlin

**The Kenrich Group, LLC**, Chicago, IL. *Senior Consultant*, June 2008 – July 2009

- Consulted for multiple energy utilities in legal disputes with the Department of Energy (DOE)
- Performed detailed research and quantitative/qualitative analysis to analyze financial impact related to construction of coal-fired power plants, liquid natural gas facilities, and other types of construction
- Contributed to final reports and presentations submitted in arbitration, settlement, or court of law presenting KRG’s expert opinion

**Charles River Associates**, Chicago, IL. *Associate - Intellectual Property*, July 2006 – May 2008

- Developed complex financial models including discounted cash flow, lost profit, and regression analyses to support expert reports within the context of intellectual property and financial litigation in multiple industries
- Created valuation models and supporting materials to value business entities
- Contributed to final reports and presentations submitted in arbitration, settlement, or court of law presenting CRA’s expert opinion

## **EDUCATION**

**University of Texas**, LBJ School of Public Affairs, Austin, Texas

Master of Public Affairs, specialization in Natural Resources and the Environment, 2012

**Washington University**, St. Louis, MO

B.S.B.A. Finance, Entrepreneurship, 2006

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## **PUBLICATIONS**

*Battery Storage for Renewables: Market Status and Technology Outlook*, International Renewable Energy Agency (IRENA), co-author with Ruud Kempener, 2015.

*Germany's Energiewende*, chapter 15 in *Global Sustainable Communities Design Handbook*, ed. Dr. Woodrow Clark, Elsevier Press, 2014.

*Expert Views on the Role of Energy Storage for the German Energiewende*, DIW Berlin and BMU "Stores" project, 2014.

*Policy efforts for the development of storage technologies in the U.S. and Germany*, DIW Discussion Paper, 2013.

*Electric Vehicles and Public Charging Infrastructure: Impediments and Opportunities for Success in the United States*, The University of Texas at Austin, 2012.

*Clean Energy Technology and Public Policy*, LBJ Journal of Public Affairs, editor and contributor, 2011.

## **TESTIMONY**

**A.21-06-021:** Prepared Testimony Addressing Pacific Gas and Electric's Test Year 2023 General Rate Case – Wildfire Mitigation and New Customer Connections Cost Requests. June 13, 2022.

**A.21-09-008:** Prepared Testimony Addressing the Reasonableness of Pacific Gas and Electric 2020 Vegetation Management Balancing Account Overspend. May 25, 2022.

**A.21-06-022:** Prepared Testimony Addressing Pacific Gas and Electric's Framework for Substation Microgrid Solutions. March 30, 2022.

**A.21-10-010:** Prepared Testimony Addressing Pacific Gas and Electric's Electric Vehicle Charge 2 Proposal. March 2, 2022.

**A.20-09-019:** Prepared Testimony Addressing Pacific Gas and Electric's Wildfire Mitigation Memorandum Accounts. April 14, 2021.

**A.19-08-013:** Prepared Testimony Addressing Southern California Edison's Test Year 2021 Track 2 General Rate Case Memorandum Account Request – Wildfire Expenditures. September 4, 2020.

**A.20-03-004:** Joint Testimony with Eduyng Castano (SCE) Addressing Data Collection and Evaluation of the New Homes Battery Storage Pilot Program. September 1, 2020.

**A.19-10-012:** Prepared Testimony Addressing San Diego Gas and Electric's Power Your Drive 2 Electric Vehicle Charging Infrastructure Proposal. May 18, 2020.

**A.19-08-013:** Prepared Testimony Addressing Southern California Edison's General Rate Case Wildfire Management, Wildfire Risk, Vegetation Management, and New Service Connection Policy Issues and Cost Forecasts. May 5, 2020.

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**A.18-12-009:** Prepared Testimony Addressing Pacific Gas and Electric’s Enhanced Vegetation Management and System Hardening Wildfire Mitigation Expenditures. July 26, 2019.

**A.18-09-002:** Direct Testimony Addressing SCE’s Grid Safety and Reliability Program Infrastructure Proposal. April 23, 2019.

**A.18-06-015:** Rebuttal Testimony Addressing SCE’s Charge Ready 2 EV Infrastructure Proposal. December 21, 2018.

**A.18-06-015:** Direct Testimony Addressing SCE’s Charge Ready 2 EV Infrastructure Proposal. November 20, 2018.

**A.17-12-011:** Direct Testimony Regarding Potential Effects of More “Cost Based” TOU Rates and Seasonal Differentiation of Tiered Rates. October 26, 2018.

**A.18-02-016 et al.:** Prepared Testimony Addressing Issues Pertaining to AB 2868 (Energy Storage). August 10, 2018.

**A.17-12-002 et al.:** Prepared Testimony Addressing the Proposal of SCE for Energy Storage Procurement. April 9, 2018.

**A.17-01-020:** Direct Testimony Addressing the Proposal of PG&E for a Fast Charging Infrastructure Program. July 25, 2017.

**R.12-06-013:** Direct Testimony Evaluating Hardship due to TOU Rates on Vulnerable Populations in Hot climate Zones. April 19, 2017.

**A.15-09-001:** Direct Testimony Addressing the Proposal of PG&E for Electric Distribution and New Business Expenditures. April 29, 2016.

**A.15-02-009:** Rebuttal Testimony Regarding PG&E’s A.15-02-009 for EV Infrastructure and Education Program. December 21, 2015.

**A.15-02-009:** Direct Testimony Regarding PG&E’s EV Infrastructure and Education Program. November 20, 2015.

**A.14-11-003:** Direct Testimony Addressing the Treatment of Solar Distributed Generation for Estimating Distribution System Capacity/Expansion Expenditures. May 15, 2015.

**A.14-04-014/R.13-11-007:** Testimony Regarding SDG&E’s Application for Authority to Build Electric Vehicle Charging Infrastructure. April 13, 2015.

*Resume updated July 2022*