

**TECHNICAL SPECIALTIES**

Drew Howard is a Managing Consultant in the Economic and Complex Analytics practice of Roux. He specializes in environmental economic and financial analysis, quantitative modeling, and data analytics for litigation support and regulatory compliance.

He provides consulting expertise in environmental management, environmental impact assessment, natural resource damages, coastal management, electric power and natural gas markets, renewables, environmental product liability, finance, and intellectual property, among others.

Previously, Mr. Howard worked at Bates White Economic Consulting in Washington, DC. There, he provided valuation and analysis of commodities forward contracts, reconciliation of energy settlement valuations, and forecasting of prices in global power markets. He has also worked on assessing the impacts of shifting federal environmental regulations and developing compliance strategies for clients. Additionally, Mr. Howard worked on several intellectual property and finance matters; most recently, he assisted with determining the appropriate allocation of approximately \$1 billion of copyright royalties at issue in multiple Copyright Royalties Board arbitration matters.

Mr. Howard holds a Master of Environmental Management from Duke University, with a specialization in Environmental Economics and Policy. He graduated magna cum laude with honors with a Bachelor of Science in Marine Biology from the University of North Carolina at Wilmington.

**EXPERIENCE SUMMARY**

- Economic & Complex Analytics Group of Roux Associates, Inc.
  - Managing Consultant, February 2020 to present
- Bates White Economic Consulting, Washington, DC
  - Senior Consultant, 2017–February 2020
  - Consultant II, 2015–2017
  - Consultant I, 2014–2015

**CREDENTIALS**

MEM, Environmental Economics and Policy, Duke University

B.S., Marine Biology, *magna cum laude* with Honors, University of North Carolina at Wilmington

**SELECTED EXPERIENCE: ENVIRONMENTAL MANAGEMENT AND NATURAL RESOURCES**

- Provided consulting services and regulatory support to utility client on project impacts of the EPA Clean Power Plan.

- On behalf of industrial client, provided valuation analysis for settlement mediation surrounding wildfire damages claims.
- Analyzed effects of inclement weather and natural disasters (hurricanes) on North Carolina barrier island ecosystems.
- Assessed and valued timber stands in North Carolina in preparation for commercial harvest.
- On behalf of construction material manufacturers Holcim Ltd. And Lafarge SA regarding their proposed merger, provided economic analysis of possible competitive concerns in North America and advised the merging parties.
- Supported lead expert on behalf of DOJ in analyzing the proposed merger of silicon metal producers FerroAtlantico and Globe Specialty Metals.
- Supported lead expert in antitrust matter to evaluate antitrust and market monopolization claims in agricultural commodities.
- Provided consulting services on wastewater supply chain management services.
- Analyzed market feasibility of leak detection technology in aging water infrastructure.

**SELECTED EXPERIENCE: ENERGY**

- Managed team of consultants and economists in support of expert testimony on behalf of the California Attorney General’s office in *State of California ex rel. Christopher J. Schroen, et. al., v. BP America Production Company, et. al.* (Case No. CGC-12-522063) regarding the market value of natural gas forward transactions with embedded optionality. The case settled for \$102 million on the eve of trial.
- Analyzed strategies and data related to dividend payouts and other financial metrics to assist client assessment of potential management options regarding V.C. Summer Nuclear Reactor.
- On behalf of a group of investor-owned utilities and state agencies, valued and reconciled energy crisis settlements in FERC litigation by creation of financial models and algorithms on behalf of the California Parties.
- Provided consulting services to Ministry of Trade, Industry and Energy (MOTIE) of Korea on global nuclear power plant construction and decommissioning market outlook.
- Curated forecast model of the CFE (Mexican electric utility) tariff pricing.

**SELECTED EXPERIENCE: ENVIRONMENTAL PRODUCT LIABILITY**

- Provided analytical and litigation support regarding potential liability surrounding Ethylene Oxide litigation.
- In *Amgen Inc. v. Sanofi Aventisub LLC and Regeneron Pharmaceuticals, Inc.*, provided financial analysis and consulting in support of the testimony of Dr. Ernst R. Berndt regarding the eBay factors in a matter involving permanent injunction on behalf of Amgen, alleging infringement of its patents.
- In *In re Urethane Antitrust Litigation*, supported testifying expert.
- Supported lead consulting expert on behalf of a provider of laboratory testing services facing government investigations into alleged FCA violations. Selected and evaluated statistical samples. Evaluated patterns in available data and potential economic damages.
- Supported lead expert in ongoing wrongful death litigation.

**SELECTED EXPERIENCE: INTELLECTUAL PROPERTY AND ANTITRUST LITIGATION**

- Led teams in support of testifying expert before the Copyright Royalty Board on behalf of the National Association of Broadcasters *In re Distribution of 2010–2013 Cable Royalty Funds* to determine allocation of over \$1 billion in television royalties.
- Co-led team in support of expert testimony in dispute related to potential antitrust violations and market monopolization in pharmaceuticals industry.
- Authored internal whitepapers on IP antitrust topics including patent misuse, branded ingredients, and trademark strategy.
- Provided expert support on behalf of Songkick in *Complete Entertainment Resources LLC v. Live Nation Entertainment, Inc. et al.*, its antitrust suit against Ticketmaster and its parent company Live Nation.
- Supported expert testimony on behalf of Tata Consultancy Services Limited, on damages issues in a dispute over the implementation of an SAP Enterprise Resource Planning (ERP) system for a global law firm.

- Supported expert testimony regarding econometric and game theoretical evidence on the question of whether poker is a game predominated by skill or chance.
- Provided consulting support in the market for baseband processors and potential FRAND violations in the licensing of standard essential patents (SEPs).
- Evaluated financial data and calculated damages based on division of gains strategy for client in medical devices industry.
- Supported lead expert in a Section 337 antitrust matter before the International Trade Commission (ITC) to evaluate antitrust claims on behalf of a reseller and provider of maintenance, repair, and operations (MRO) services for industrial automation applications.
- Provided consulting and regulatory support to music industry clients regarding digital and mechanical licensing regulations.

**SELECTED EXPERIENCE: FINANCE**

- Supported testifying expert in RMBS matter on behalf of trustees and insurers in disputes over the quality of mortgages pooled in various RMBS trusts.
- Provided litigation support in cases of alleged manipulation in commodity markets. Assessed economic theories of harm, methods of manipulation, and potential sources of damages.
- Created algorithm to collect and evaluate thousands of companies' financial metrics, and financial models and reports to assist Fortune 500 client with transfer pricing strategies.
- Provided economic analysis to support client's bilateral APA, including highlighting issues with APMA position.