Economics of Energy and the Environment  
Executive Education Course  
January 8 - 9, 2020  
The Oakland Center  
California State University, East Bay  
1000 Broadway, Suite 109  
Oakland, California 94607

Course Description:
Electricity markets have been restructured in fundamental ways over the last 25 years resulting often in markets that are subject to both competition and regulation. Drawing heavily on the tools of economics, this course will cover the fundamental concepts of competitive electricity markets, their potential efficiencies, and the incentive structures created under these restructured markets. Day Two will examine retail rate design and the role of traditional utilities in the transmission and distribution sectors.

Day One, January 8:

Session 1: Competitive Wholesale Electricity Markets  
9:00am – 10:30am

Session 2: Market Power in Restructured Markets  
10:45am – 12:15pm

Lunch Break  
12:15pm – 1:30pm

Session 3: Economics of Renewable Energy  
1:30pm – 3:00pm

Session 4: Resource Adequacy in Restructured Markets  
3:15pm – 4:45pm
**Day Two, January 9:**

Session 5: Retail Rate Design  
9:00am – 10:30am

Session 6: Future of Retailing and of the Distribution Utility  
10:45am – 12:15pm

Lunch Break  
12:15pm – 1:30pm

Session 7: Energy Externalities  
1:30pm – 3:00pm

Session 8: Environmental Taxes, Caps, and Intensity Standards  
3:15pm – 4:45pm

**Lecturers**

*Severin Borenstein* is E.T. Grether Professor of Business Administration and Public Policy at the Haas School of Business. He received his A.B. from U.C. Berkeley and Ph.D. in Economics from M.I.T. He served on the Board of Governors of the California Power Exchange from 1997 to 2003. In 2012-2013, Borenstein served on the Emissions Market Assessment Committee that advised the California Air Resources Board on the operation of California’s Cap and Trade market for greenhouse gases. In 2014, he was appointed to the California Energy Commission's Petroleum Market Advisory Committee, which he chaired from 2015 until the Committee was dissolved in 2017. Since 2015, he has served on the Advisory Council of the Bay Area Air Quality Management District. In 2019, he was appointed to the Governing Board of the California Independent System Operator.

*James Bushnell* is a professor of economics at the University of California at Davis. He received his B.S. from the University of Wisconsin in 1989 and Ph.D. in Industrial Engineering and Operations Research from UC Berkeley in 1993. He has served on the California Independent System Operator’s Market Surveillance Committee since 2002. In addition, Dr. Bushnell served on the California Power Exchange’s Market Monitoring Committee and on the California Air Resources Board’s Economic Assessment and Allocation Committee for its cap-and-trade program. In 2012-13, he served on the Emissions Market Assessment Committee to the California Air Resources Board (ARB) and is currently advising the ARB on the modeling and economic analysis of climate policy.