

**Dr. John Caldwell**  
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**Dr. John Caldwell** has worked in the electric and gas utility industry for over twenty years, first at the Illinois Power Company (now part of Ameren) as a planning engineer, and then at NiSource, where he was involved in the development of long-term forecast models for energy use and peak demand, the introduction of innovative alternative rate designs, such as negotiated rate, fixed price, and fixed bill products, and the implementation of financial hedging strategies and risk management systems to support these products. Both within NiSource and for its customers, John regularly gave seminars and training presentations on rate design and deregulation. He authored a monthly “Fuel Price Outlook” with commentary and projections on the energy industry on his company’s website, and participated in periodic regional workshops to share his views on the market and future price trends. At EEI, Dr. Caldwell has been examining and reporting on the interrelationship of the economy with energy supply, demand, and pricing, and providing regular outlooks on the state of the economy and its current and potential impacts on the energy industry. He has delivered papers at industry conferences on natural gas supply and demand issues, the measurement of price and income elasticity in the electricity sector, and the proper methodology for estimating the costs and benefits of new smart grid technologies. Recently, he has been working with the Department of Energy and EEI members in the collaborative development of a process for projecting, measuring, and verifying costs and benefits associated with smart grid investments. He holds a B.S. in electrical engineering from the University of Illinois at Champaign-Urbana, an MBA from the University of Illinois at Springfield, an M.S. in mathematics from the University of Iowa, and a Ph.D. in economics from the University of Illinois at Chicago.