

***Lon W. House, Ph.D.***

Dr. House has a Bachelors, two Masters, and a Ph.D. in Engineering and Economics from U.C.Davis. He is a Certified Energy Manager (CEM) and a Certified Sustainable Development Professional (CSDP) with the Association of Energy Engineers. He taught engineering in Graduate School at U.C. Davis for a number of years. He worked for the California Energy Commission for five years as a utility planner, and he was the chief utility planner for the California Public Utilities Commission for five years. In 1990 he went out into the consulting business, starting his own business (Water and Energy Consulting). He has been the Association of California Water Agencies (ACWA) energy consultant since 1992, representing 500 water agencies which are responsible for over 90 percent of the water delivered in California; the Regional Council of Rural Counties (RCRC) energy advisor, representing 30 rural California counties encompassing over one-half of the land area of California; and an energy consultant for the Attorney General of the State of California.

Dr. House has over 20 years experience before the California Public Utilities Commission, almost 30 years before the California Energy Commission, and has testified numerous times California Power Authority, California Independent System Operator, California State Legislature, State Water Resources Control Board, and the Federal Energy Regulatory Commission, as well as in numerous court cases. Dr. House also works for the California Public Utilities Commission as an expert witness on transmission issues and is their water-energy expert, and for the California Energy Commission as a researcher. He is an investment management expert consultant in the water and energy areas for: Gerson Lehrman Group-GLG Scholar Program, eWork Markets, Price Waterhouse-Vantage Marketplace, Roundtable Group, and Standard & Poor's-Society of Industrial Leaders.

Dr. House's expertise is in the water-energy nexus. He authored the definitive research report on water related peak demand in California: "*Water Supply Related Electricity Demand in California*", Demand Response Research Center/California Energy Commission, Lawrence Berkeley National Laboratory, LBNL-62041, December 2006, and several recent articles: *Will Water Cause the Next Electricity Crisis?* in: Water Resources Impact, Vol. 9, No. 1, January 2007, published by American Water Resources Association, and "*Public Versus Private Customer Perspectives on Participation in Demand-side Programs*" Strategic Planning for Energy and the Environment, Volume 27, No. 3, Winter 2008, pg 59-66. He has been involved in the assessing, evaluating, and recommending energy efficiency and demand response improvements within a number of water agencies in California over the last 15 years and was pivotal in getting the water-energy nexus recognized as a critical element in California energy infrastructure by both the CEC and CPUC.