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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, is the founder of Hydropower group for the U.C. Davis Energy Institute and is the hydro renewable energy consultant for the Energy Trust of Oregon. 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 is the California Rural Water Association (CRWA) energy specialist and is the energy and efficiency trainer for the National Rural Water Association and the Rural Water Association of Arizona and was the Association of California Water Agencies (ACWA) energy consultant for 25 years. Dr. House has over 30 years' experience before the California Public Utilities Commission, over 35 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, the Federal Energy Regulatory Commission, and the U.S. Senate, 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 Lehman Group-GLG Scholar Program, eWork Markets, Price Waterhouse-Vantage Marketplace, Roundtable Group, Standard & Poor's-Society of Industrial Leaders, Coleman Research, Guidepoint Advisors, Maven, and DeMatteo Monness.

He has been involved in the assessing, evaluating, and recommending energy efficiency, demand response opportunities, and renewable energy projects for water agencies, electric utilities, and private parties over the last 20 years; has been involved in numerous utility regulatory cases in the areas of utility billing, rates, and tariffs; and provides expert witness services for the energy and water sectors in the areas of utility billing and rate design, utility operations, project evaluation and economics, renewable energy projects, sustainability, due diligence, strategic planning, and regulatory representation

He is a member of the Association of Energy Engineers (AEE) - Senior Member, Sigma Xi - The National Research Honor Society, American Society of Civil Engineers - ASCE, American Water Works Association - AWWA, American Energy Society (AES), and the International Association of Energy Economists - IAEE.

Dr. House's expertise is in the water-energy nexus. He authored water-energy research reports: "*Tech Memo No. 1 – Economic Potential of Peak Hour Pumped Storage and Aquifer Pumped Hydro Technologies at Willow Springs Water Bank*" and "*Tech Memo No. 2 – Statewide Benefits of Pumped Storage at Groundwater Banks*", California Energy Commission, CEC-500-042-API, December 2017; "*Water System Leak Identification and Control Field Evaluation*", Pacific Gas and Electric – Emerging Technologies Program, ET13PGE1451, Sept. 5, 2015; "*Time-of-Use Water Meter Impacts on Customer Water Use*", California Energy Commission, CEC-500-2011-023, March 2011; "*Smart Meters and California Water Agencies: Overview and Status*", California Energy Commission, CEC-500-2010-008, March 2010; "*Water Supply Related Electricity Demand in California*", Demand Response Research Center/California Energy Commission, Lawrence Berkeley National Laboratory, LBNL-62041, December 2006; and various articles: "*Energy Storage at Groundwater Banks*", Journal American Water Works Association, Vol. 110, No. 8, August 2018, pg E17-E26; "*Will Water Cause the Next Electricity Crisis?*" Water Resources Impact, Vol. 9, No. 1, January 2007; "*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; "*Shifting the Timing of Customer Water Consumption*", Journal American Water Works Association, Vol. 104, No. 2, February 2012, pg 82-92; "*A New Paradigm: Electric Utilities Investing in Water Conservation*" Water Resources Impact, Vol 17, No. 2, March 2015; "*7 Ways Smart Meters Save Water*", Water Innovations, August/September 2015.

Dr. House is the energy and efficiency trainer for the Rural Water Association of Arizona and the National Rural Water Association and is responsible for the training and installation of approximately 30 small hydroelectric generators along the Thailand/Myanmar border.

