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## RESUME OF SCOTT HAASE

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### AREAS OF QUALIFICATION

Renewable energy technology and cost characterization, independent proposal review and evaluation, technical and economic feasibility assessments, transmission analysis, energy policy and market analysis.

### EMPLOYMENT HISTORY

- ◆ Lab Program Manager, National Renewable Energy Laboratory (NREL), Golden, CO 2007- Present
- ◆ President, BioSun Renewables, LLC, Lakewood, CO, 2006-present
- ◆ Renewable Energy Engineer, Lockheed Martin, Lakewood, CO 2006-2007
- ◆ Manager of Denver Operations, McNeil Technologies, Lakewood, CO, 1998-2006

### EDUCATION

- ◆ Washington University, M.S., Engineering and Policy, 1992
- ◆ University of Vermont, B.S., Mechanical Engineering, 1986

### PROFESSIONAL EXPERIENCE

Mr. Haase has over 22 years of direct experience in the renewable energy industry. His expertise includes biomass, wind, solar and geothermal technologies. Sample projects are described below:

- Mr. Haase manages NREL's relationship with the U.S. Department of the Interior (DOI) and its bureaus. In this role, he serves as liaison to the Office of the Secretary of the Interior. He works across DOI, DOE and NREL senior leadership to coordinate deployment of NREL's resources (solar, wind, offshore, geothermal, biomass, CHP, transmission, grid integration) to meet DOI's programmatic and technical needs related to energy development on U.S. public lands.
    - Manages utility-scale renewable energy and transmission line corridor planning studies for the Bureau of Land Management. Provides BLM leadership with market and policy analysis support related to utility planning efforts in the western U.S.
    - For the U.S. Bureau of Reclamation, leading a project that is developing long term clean energy transition plans for the 2,250 MW Navajo Generating Station.
    - Leading a renewable planning analysis for the Salton Sea Authority, which seeks to develop geothermal, solar and transmission lines from the Imperial and Coachella valleys in California.
  - As a subcontractor to Sedway Consulting, Mr. Haase was a member of the IE teams for Pacific Gas and Electric (2006-2007) and Southern California Edison (2006-2008) Renewables Portfolio Standard (RPS) solicitations. In this capacity, he reviewed
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renewable energy offers submitted by IPPs from a technical, financial and economic perspective, estimated projected impacts of short-listed projects on California's Supplemental Energy Payments (SEP) program, monitored PPA negotiations between the utilities and developers, and estimated transmission costs.

- While with Lockheed Martin, provided project development support to the Bureau of Indian Affairs for over 20 Indian tribes. Technology areas included biomass power, solar (PV) and large scale wind (50 MW-1,000MW). Responsibilities included technology analysis, review of wind lease term sheets, siting studies, environmental compliance, economic analysis, resource assessment, and assessment of financing options for tribes.
  - Program Manager/technical consultant for a \$1.2 million contract with the California Energy Commission. Program sought to develop strategic valuation of renewable energy technologies. Developed technical, economic and environmental performance characteristics for geothermal, wind, PV, CSP, solid biomass, biogas and small-scale hydro technologies for the period from 2003-2017. Determined the optimum locations to deploy renewables based on resource availability in given areas, transmission system constraints and load growth, expected costs of generation, and expected economic and environmental benefits.
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