



## **Mark Ruth**

Mark Ruth is the Manager of the Industrial Systems and Fuels Group in the Strategic Energy Analysis Center at the National Renewable Energy Laboratory (NREL) in Golden, Colorado, USA. In that role, Mark is leading the multi-laboratory effort to analyze the potential of H<sub>2</sub>@Scale – a concept where hydrogen is an energy intermediate that complements electricity. Mark has also led an effort to analyze optimal configurations and operation of tightly coupled nuclear-renewable hybrid energy systems and is leading other analyses that are focused on identifying potential synergies between nuclear and renewable energy sources. In addition, Mark is NREL's lead in Grid Modernization Initiative projects that are developing and testing methods to estimate the holistic value of electricity projects. Over Mark's 26 years at NREL, he has an extensive history of developing methods to value opportunities in the energy sector as well as technical analyses of hydrogen and bioenergy systems.