



# Energy Vision LLC

**SIEMENS**

*Ingenuity for life*

## ABOUT THE SPEAKER

### **Jay Balasubramanian, Ph.D ChemE**

Operations Manager, Thermal Power - SIEMENS

#### **Education**

University of Notre Dame-Mendoza College of Business- Master of Business Administration (MBA), Finance

The University of Alabama-Ph.D Chemical Engineering

#### **Experience Overview**

Since appointed as Operations Manager, Thermal Power for the United States Center of Competence for Distributed Energy Systems (DES) in 2015, Jay has been supporting a team dedicated to helping public and private sector companies make smart, sustainable investments in distributed energy systems.

As Operations Manager, Dr. Balasubramanian leads and manages thermal power Distributed Energy projects from early initiation through full program execution. This role requires development of strategy and philosophy for technical and financial evaluation as well as coordination of resources specific to thermal power projects.

Dr. Balasubramanian has 8 years of experience in the energy industry. Working with financial institutions, developers, oil & gas suppliers, utilities and industrial clients, Dr. Balasubramanian specializes in energy project development including thermal power and cogeneration, renewable energy, power generation with alternative fuels, oil & gas chemical process engineering, technical and financial due diligence support for financing and capital market transactions, asset valuations, market research and competitive intelligence. Dr. Balasubramanian has deep technical knowledge of the chemical and physical properties of fuels, chemical thermodynamics and the general principles of chemical engineering and unit operations. Dr. Balasubramanian is highly proficient in the use of Microsoft Excel and PowerPoint and possesses excellent mathematical modeling and communication skills.

Dr. Balsubramanian has extensive experience in process engineering and process calculations, statistical mechanics and molecular modeling, stochastic calculus and computer simulations using molecular dynamics, Monte Carlo and free energy perturbation techniques. He has developed his own algorithms using VBA, MATLAB, Fortran, C++ and parallel programming techniques for performing said computer simulations.