The Energy Grid is rapidly evolving from one of centrally sourced supply and distributed consumption to one that encompass Distributed Energy Resources (DER) as the default paradigm. The information technology systems that are used in industry at all areas of the power system need to adapt the DER model. The talk will discuss the drivers, opportunities and technology seen in case studies from our customers in areas such as Smart(er) Buildings, EV Chargers, Micro/nano-grids, Community Aggregated DER, ISO Wide Area Management. Sample from PJM, PSE&G, SDG&E, UC Davis, CMU, ZipPower and eMotorWerks will be used to illustrate the current state of the market for IoT systems for DER.

John Matranga a Lehigh University Alumni (BS CHE) and the Director of Customer Innovation and Academia at OSIsoft. Responsible for the global STEM education program at OSIsoft, John enables academic institutions to leverage the PI System software and OSIsoft resources for education and research use. John has extensive expertise in technology vision, adoption, and services. Focused on sensor based data for the past 30 years, his work has spanned the areas of software architecture, design, development and delivery for commercial software offerings in the areas now considered to be Cyber Physical Systems or Industrial Internet of Things and Big Data. John lives in the San Francisco bay area with his wife and three children.

OSIsoft is a 35+ year old company with over 1,200 employees and over 20,000 industrial sites worldwide. Our flagship product, the PI System, enables business to capture and leverage sensor-based data across the enterprise to improve efficiency, sustainability, quality and safety. Increasing, customers are turning to OSIsoft for our Digital Transformation to create data enabled products and data driven services to transform revenue models to supplement their tradition operational and management uses of IIoT data.