The crystal ball that the power electronics industry employs to gaze into the future is the PSMA Power Technology roadmap. This is a regular biennial activity where many industry experts come together to outline the future directions of our industry. This presentation will provide a retrospective overview and analysis of past roadmaps and compare their predictions to subsequent results. The intent of this exercise is to polish the crystal ball and enable future roadmaps to be even more effective.

The results of Power Technology roadmap published in 2015 will also be highlighted in this presentation. The PSMA roadmap activity differs from many commercially available documents as it has contributions from industry insiders with significant technology awareness and depth. Over past few years, the roadmap activity has evolved into a three-dimensional approach where component level trends, application level trends and technology trends are interposed to give a more comprehensive view. The roadmap also captures the industry trends through invited webinars from various industry experts regarding the trends. While casual readers will be able to take away the evolution of pertinent metrics in various application categories, more voracious perusal of the roadmap content will undoubtedly give many more illuminating insights to the readers.

Biographical Sketch:

Dhaval Dalal is a System Applications Director at ON Semiconductor, where he is responsible for defining components for high power applications and developing system solutions for customers.

Prior to re-joining the company in July 2014, Dhaval worked for 6 years as a Power Electronics Consultant in Bangalore, India. During this period, he developed reference designs and solutions for various power electronics applications.

From 2002 to 2008, he worked at ON Semiconductor where he was responsible for defining strategy, roadmaps and technical content of many products for power supply applications.
Previously, Dhaval worked at TI/Unitrode, Digital Equipment Corporation and Philips Laboratories.

Dhaval’s educational background includes B.Tech.(EE) from IIT-Bombay, MSEE from Virginia Tech and a Masters’ in Management of Technology. He has published and presented more than 30 technical articles, papers and invited talks. He also participates in many initiatives of PSMA (Power Sources Manufacturer’s Association). Dhaval holds 5 US patents.