

About the Speaker



Kailash Srivastava is a power system professional with well-rounded experience across various sectors around globe viz. multinational company, government (Indian Engineering Services), consulting organisation, research and educational institutions. He was born at Fatehpur in India in year 1962. He has a bachelor degree in Electrical Engineering from MMM Engineering College Gorakhpur (India) in 1983. He did his MTech and PhD in Power Systems from IIT Kanpur (India) in 1986 and 1995 respectively. He holds several patents and publications to his credit. He is senior member of IEEE and individual member of CIGRE. His research interests include power system dynamics, control, hvdc, optimisation techniques, modelling and simulation of power systems. He has been working for ABB Sweden for last seventeen years. He is also adjunct professor at Lulea Technical University and IIT Kanpur. Further details about him are available at: <http://www.linkedin.com/in/knsri>.

Abstract of the Talk

Topic: Issues and Challenges of Future Electric Grid

The electric power industry is about 130 years old. In the beginning, the industry was driven by the demands of society to improve life, and to build infrastructure and increase productivity to meet the needs of industrializing economies. Today, in much of the world, the forces of the market, technology and regulation are transforming the ground on which most of the industry has traditionally operated. The future of the electric power industry depends not only on the efficient production of low-cost, high-quality, sustainable energy and energy services, but also on the integration of its entire value chain – from fuel supply to customers, as well as the information and integration needs of the power system itself.

A systematic transformation of today's power system is underway to enable high penetrations of sustainable energy systems. The power system is gradually evolving from network architecture with relatively few large, hierarchically-connected, tightly synchronized energy resources supplying large, medium, and millions of small passive consumers, toward a network driven by many distributed and concentrated, highly variable energy resources mixed with large central generation sources, energy storage and responsive users.

This talk presents a look forward at the generation, use of electricity and how the power system would develop to meet the needs of consumers. The talk also focuses on certain areas of research and development that would shape electric power systems of future.

Date: 3rd September 2014

Time: 2.30PM

Venue: CR104, LHTC, IIITDM Jabalpur