

Dr. Isik C. Kizilyalli – Bio and Photograph



Dr. Isik C. Kizilyalli currently serves as a Program Director at the Advanced Research Projects Agency – Energy (ARPA-E), Department of Energy. Kizilyalli's focus at ARPA-E includes high efficiency power conversion, power electronics, grid reliability, reliable semiconductors for extreme environments, instrumentation for intrinsically safe nuclear energy, and enhanced geothermal systems. Prior to joining ARPA-E, Kizilyalli served as founder, Chief Executive Officer, and Chief Technical Officer of Avogy Inc., a venture backed start-up focused on GaN power electronics, energy efficiency, and power systems. Previously, he was with Bell Laboratories, followed by Nitronex Corporation, and solar PV startup Alta Devices where his team holds the world record for single junction solar cell conversion efficiency. Kizilyalli was elected a Fellow of the Institute of Electrical and Electronics Engineers (IEEE) in 2007 for his contributions to Integrated Circuit Technology. He also received the Bell Laboratories' Distinguished Member of Technical Staff award and the Best Paper Award at the International Symposium on Power Semiconductors and Integrated Circuits in 2013. Kizilyalli holds his B.S. in Electrical Engineering, M.S. in Metallurgy, and Ph.D. in Electrical Engineering from the University of Illinois Urbana-Champaign. He has published more than 100 papers and holds 119 U.S. patents.