

Lorenzo Kristov, Ph. D.

Electric System Policy, Structure, Market Design

Brief Bio

Lorenzo Kristov is an independent consultant focusing on power system transition to integrate high levels of renewable generation and distribution-connected energy resources (DER), and to move to a more decentralized, layered structure. Areas of expertise include: wholesale market design; DER participation in wholesale markets; coordination of transmission & distribution operations, markets and planning; distribution system operator (DSO) models; distribution-level markets; energy resilience strategies and microgrids; whole-system grid architecture.

From 1999 to 2017 Lorenzo worked at California ISO as a principal in market design and infrastructure policy. In that position he was a lead designer of the locational marginal pricing (LMP) market system the ISO implemented in 2009. He later led initiatives to redesign the transmission planning and new generator interconnection processes to accommodate rapid growth of renewable energy projects triggered by California's renewable portfolio standards. Over the past several years he worked on initiatives to integrate DERs into markets, operations and planning, to advance transmission-distribution coordination between the distribution utilities and the ISO, and has written papers and participated in national and international forums on power system evolution, DSO models and grid architecture.

Prior to joining the California ISO Lorenzo was Energy Economist at the California Energy Commission (1995-9) and Fulbright Scholar in Indonesia (1993-4). He has a BS in mathematics from Manhattan College, MS in Statistics from North Carolina State University, and PhD in Economics from University of California Davis.

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