



SMART GRID CENTER
TEXAS A&M ENGINEERING EXPERIMENT STATION

SGC WEBINAR

Tracking and Analyzing the Short-Run Impact of COVID-19 on the U.S. Electricity Sector

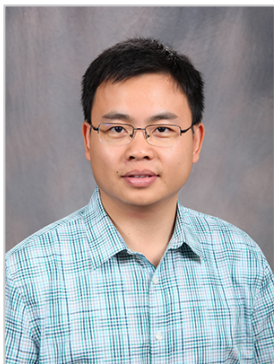
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The novel coronavirus disease (COVID-19) has rapidly spread around the globe in 2020, with the U.S. becoming the epicenter of COVID-19 cases and deaths in late March. In this context, there have been federal- and state-level policy interventions aiming at mitigating the public health risks of this pandemic. As the U.S. begins to gradually resume socio-economic activities, it is imperative for policy makers and electric power operators to take a data-driven scientific approach to understanding and predicting the change of electricity consumption in the shorter and longer term. In this talk, we describe a first-of-its-kind open access data hub, namely the Coronavirus Disease-Electricity Market Data Aggregation (COVID-EMDA), to track the impact of the COVID-19 epidemic on electricity markets in the U.S. Additionally, we present results from rigorous statistical analysis of this data to quantify the impact of COVID-19 on the electricity sector.

May 27, 2020 at 10:00 A.M. CDT

More can be found at <https://smartgridcenter.tamu.edu/index.php/2020/05/12/tracking-and-analyzing-the-impact-of-covid-19-on-the-u-s-electricity-sector/>



Dr. Le Xie is a Professor in the Department of Electrical and Computer Engineering and the Assistant Director of Energy Digitization at the Texas A&M Energy Institute. He received a B.E. in Electrical Engineering from Tsinghua University in 2004, S.M. in Engineering Sciences from Harvard in 2005, and Ph.D. in Electrical and Computer Engineering from Carnegie Mellon in 2009. His industry experience includes ISO-New England and Edison Mission Energy Marketing and Trading. His research interest includes modeling and control in data-rich large-scale systems, grid integration of clean energy resources, and electricity markets.

Dr. Xie received the U.S. National Science Foundation CAREER Award, and DOE Oak Ridge Ralph E. Powe Junior Faculty Enhancement Award. He was awarded the 2017 IEEE PES Outstanding Young Engineer Award. He was a recipient of a Texas A&M Dean of Engineering Excellence Award, ECE Outstanding Professor Award, and TEES Select Young Fellow. He is an Editor of IEEE Transactions on Smart Grid, and the founding chair of the IEEE PES Subcommittee on Big Data & Analytics for Grid Operations. His group received the Best Paper awards at North American Power Symposium 2012, IEEE SmartGridComm 2013, HICSS 2019, and IEEE Sustainable Power & Energy Conference 2019. He chaired the 2018 NSF Workshop on Real-time Learning and Decision Making in Dynamical Systems.