



IEEE

Saint Louis Section

Institute of Electrical and Electronics Engineers

Distributed Energy Resources

Locational and Temporal Valuation

Tamer Rousan

Manager of DER (Distributed Energy Resources)
Integration & Strategies at Ameren Illinois

Date: Thursday, March 28, 2019

Time: 5:30 pm

Where: Southern Illinois University Edwardsville (SIUE) [See map for parking information!!!!](#)

Location: School of Engineering Auditorium (EB 1033)

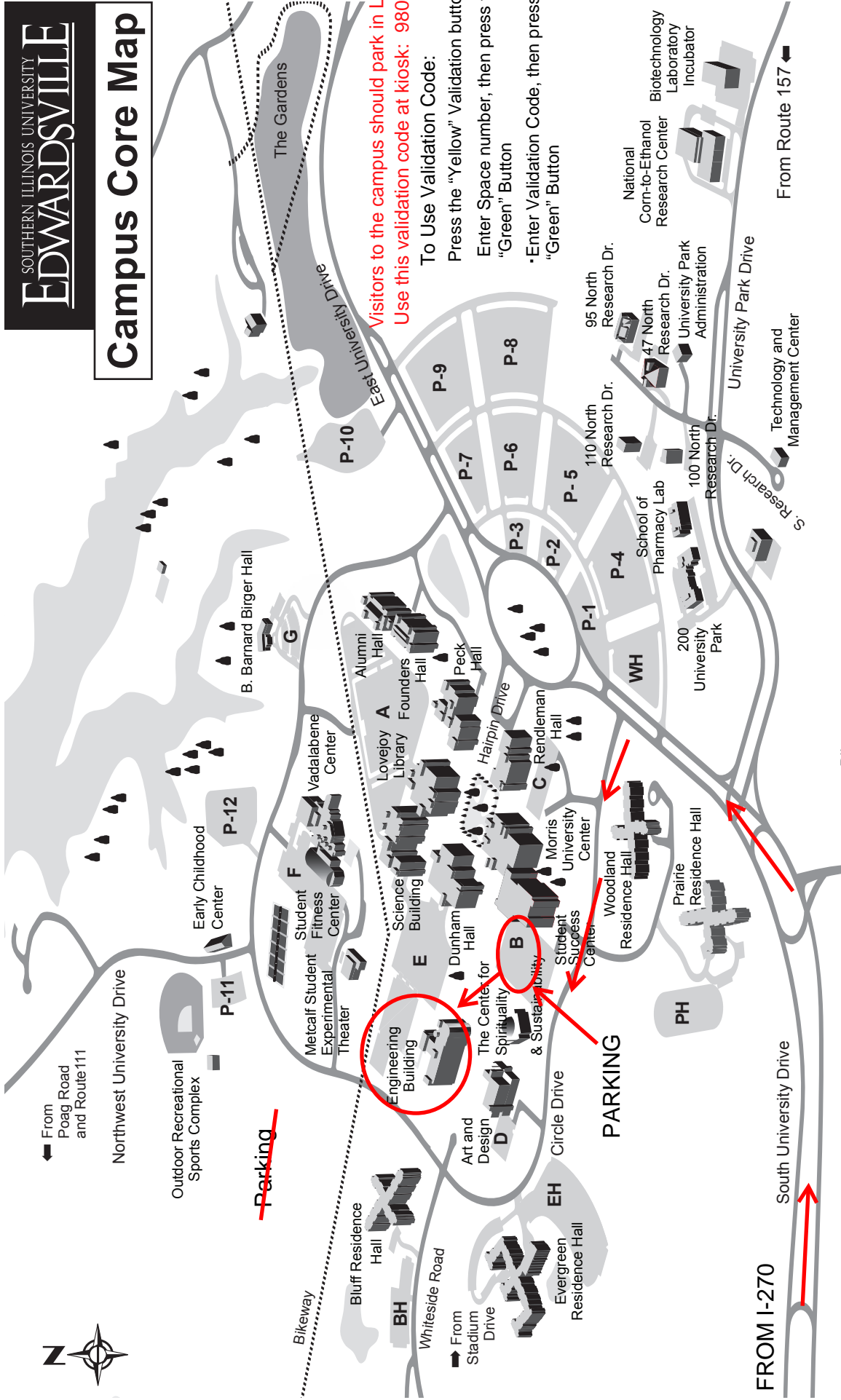
ABSTRACT

Across the US power distribution systems, and at Ameren in particular, a proliferation of DER (Distributed Energy Resources) is expected over the next 5 – 10 years. In Illinois, the Illinois Future Energy Jobs Act provides the monetary mechanisms to further incentivize the installation of renewable DER on the Ameren Illinois grid. The Illinois Future Energy Jobs Act also specifically requires Ameren Illinois to offer rebates to qualifying net metered renewable DER with a smart inverter, with the expectation that Ameren Illinois will be able to monitor, operate, control, and ultimately support additional uses of the smart inverter controlled DER. Also outlined in the Future Energy Jobs Act is the requirement to investigate the value of DER rebates once the total generating capacity of net metering customers reaches 3%. The value of such rebates shall reflect the value of the distributed generation to the distribution system at the location at which it is interconnected, taking into account the geographic, time-based benefits, as well as technological capabilities and present and future grid needs. This talk provides a high-level discussion of the valuation blocks and a potential engineering framework for DER valuation.

BIO

Tamer Rousan is the Manager of DER (Distributed Energy Resources) Integration & Strategies at Ameren Illinois. In this role, Tamer and his team are responsible for supporting Ameren Illinois' efforts in developing and creating policies and standards for integrating DER into the Ameren Illinois distribution grid. Tamer's team is also responsible for developing and executing on Ameren Illinois' DER Strategy roadmap, which includes NWA (Non-Wires Alternatives) Exploration, DERMS (Distributed Energy Resources Management System), DER Valuation, as well as Smart Inverter specifications and control. At Ameren, Tamer helped lead the engineering, design and development of Ameren's Microgrid, one of the most advanced Microgrids in North America. Prior to his current role, Tamer helped lead diverse projects that included Reliability, Distribution Automation, ADMS (Advanced Distribution Management System), Volt-Var Optimization and Technology Assessment. Tamer holds a B.S. (2010) and a M.S. (2017) in Electrical Engineering from the University of Illinois at Urbana-Champaign. He currently is the Grainger Power Series lecturer at the University of Illinois, teaching "Power Systems Modeling and Analysis" to graduate students. He is an active member of IEEE. He is the recipient of EPRI's 2014 Technology Transfer Award and the 2018 IEEE Yong Engineer Award – St. Louis Section.

Campus Core Map



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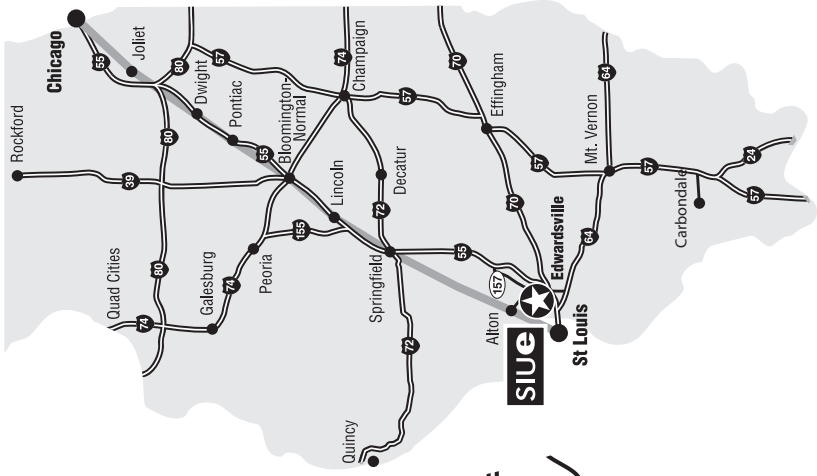
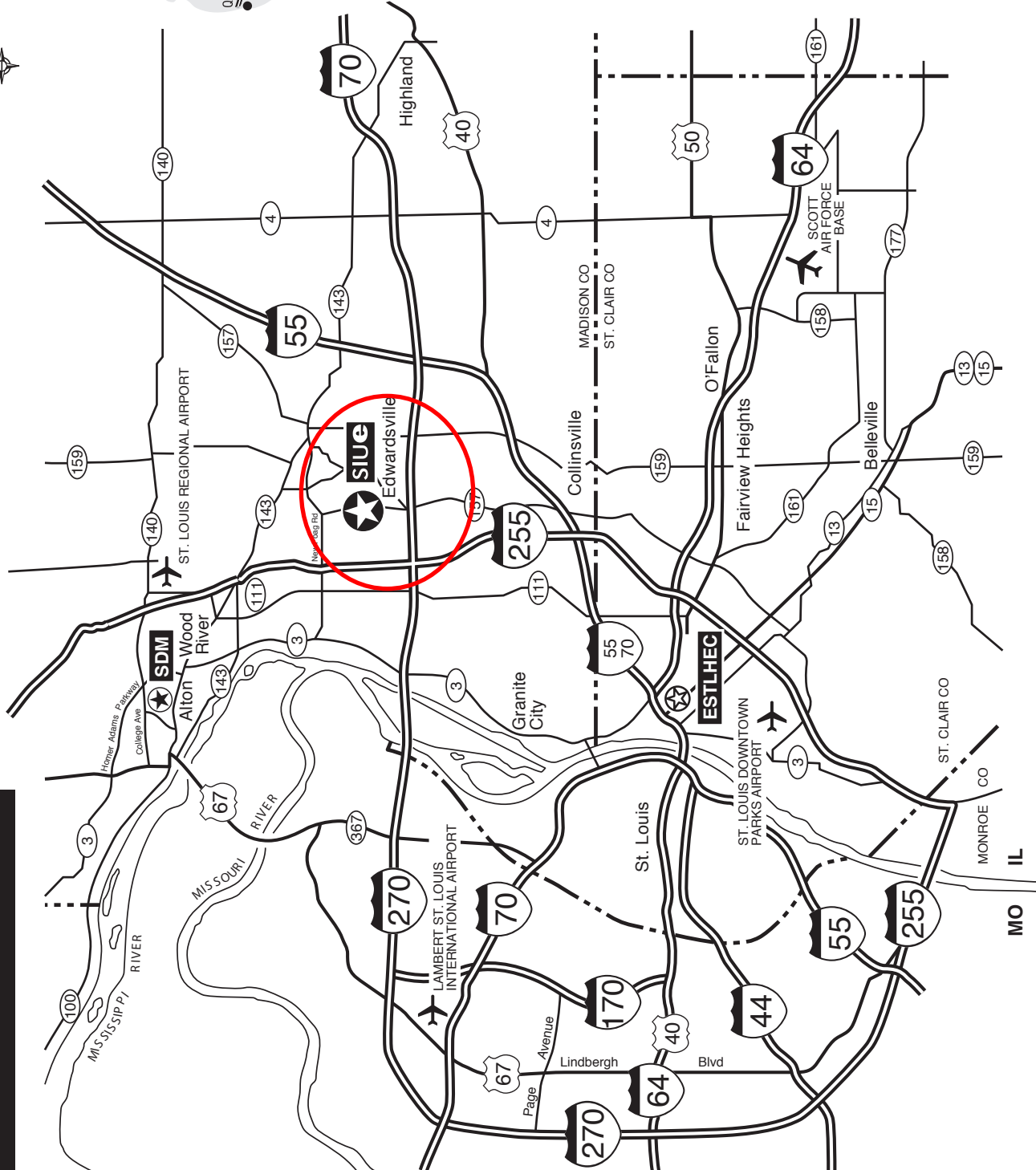
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Key to Parking

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1004 siue.edu/maps

Regional Map



Key to Map

- Southern Illinois University Edwardsville (SIUE)
- Southern Illinois University School of Dental Medicine (SDM)
- Southern Illinois University Higher Education Campus (ESTLHEC)
- Principal Highway
- Amtrak Route
- State Routes
- County Lines