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## **Bronzeville Community Microgrid Tour – October 2, 2024 Itinerary**

**9:00 am      Bus departs from Lewis Tower (111 E. Pearson St.)**

**Stop 1            Solar PV Generation Site at Dearborn Homes**

- Why Bronzeville – CoF, resiliency metrics, critical facilities
- BCM demonstration overview and mission
- Community partnership/Community of the Future
- Technology partners – Siemens (MGMS), Enchanted Rock (Gas Gens)
- Life-cycle learnings
- BCM as a testbed for innovation – DOE grants (MISST/SHINES, MMC, SIMPLE)

**Stop 2            Dearborn Homes**

- Overview of solar site at Chicago Housing Authority – Raghav Kothandaraman
- Key Highlights:
  - 750 kW solar PV including rooftop solar installed at 17 buildings and 5 ground mount PV
  - Owned and operated by the customer, but allows monitoring and control from ComEd's microgrid controller.
  - Supports the grid voltage through volt-var function of the smart inverters.
  - Smart inverters have voltage and frequency ride through capabilities.
- Partnership with Chicago Housing Authority - Ellen Sargent – CHA

**Stop 3            Bronzeville Renaissance Mural and Battery Storage**

- Overview of the Mural and BESS Site
- Bronzeville Renaissance Mural + Photo Opportunity – Querida Ellis, Chris Khalid
  - Introduction of Community of the Future + STEM programs
  - Gallery Guichard as a partner
- Battery Storage Site/SHINES – Raghav Kothandaraman
  - BESS Capacity: 0.5 MW/2MWh, connected via 480V to 12.47kV transformer.
  - Owned and operated by ComEd.
  - Will be dispatched by the MGMS and Supports PV integration by mitigating variability and uncertainty of PV.
- Phasor Measurement Units/SIMPLE Smart Grid – Mo, Tom
  - Sensors to enable granular data measurements and wide area situational awareness.
  - DLSE demonstration - first of a kind in North America

**Stop 4      Enchanted Rock Generation Site**

- \*Safety Brief – Nick King
- Key Highlights – Christian, Raghav, Nick
  - Generation Capacity 4.8MW
  - 13 Clustered 400kW generator, including 1 back up/maintenance
  - Owned and operated by the ER
  - Backup natural gas
  - OCC/MGMS capable to dispatch
  - Touch on Clustering
- Partnership Enchanted Rock - Jim Barbour – ER Regional VP

**Stop 5      Illinois Institute of Technology (ITT) Microgrid Demo**

- Led by Dr. Shahidehpour
- Microgrid Clustering
- Additional IIT and academic collaboration

**11:30 am      Return to Meeting Venue**