

# Ameren Illinois Indoor Agriculture Update

## Status of facilities



- Seven medical cannabis cultivation centers in Ameren Illinois territory prior to 2020
- Each facility is expanding in 2020 or working on expansion plans
- Expecting an additional seven facilities to be approved in Summer 2020
- Craft grower facilities will also be coming on line
  - One lighting application to date
- Indoor hemp facilities also in development
- Have had initial discussions with all seven cultivation centers
  - Expansion plans of up to 10 times current size

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## Trends from Initial Designs



- Different level of efficiency in works for each facility
  - Some operators embrace LED lighting, others do not
    - Combination of HPS and LED
    - Use of natural light to supplement
  - Operators current HVAC systems are not up to EE standard.
    - Looking at HVAC technology that is variable refrigerant flow yet combined with resistant heat or inefficient gas heating

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## Projects In-Process



- Completed projects to date:
  - 1,900 Ex Ante Net MWh
- Prospective projects in order of potential energy savings:
  - Lighting
  - CHP
  - HVAC
  - Daylighting controls
  - Building envelope
  - Greenhouse curtains
  - Irrigation pumps



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Coordination with ComEd



- Participated in AESP conferences in Collinsville IL and Chicago
- Coordinating on potential Cannabis workshop(s) for owner/operators for first half of 2020