

**Metropolitan Mayors Caucus
Energy Academy Course Content**

The following topics will be addressed in the Metropolitan Mayors Caucus Energy Academy. Additional topics may be proposed by class attendees.

Week	Session	Winter 2023
1	Energy Sector: Background	<ul style="list-style-type: none"> ▪ Introductions, class overview, objectives ▪ Energy sources and uses ▪ Physical System: Generation, Transmission, Distribution ▪ Emissions sources and trends
2	Energy Markets: Supply, Demand and Prices	<ul style="list-style-type: none"> ▪ Wholesale markets: Energy, Transmission & Ancillaries ▪ Wholesale operations: Auctions and rates ▪ Retail Markets: Energy Supply, Delivery and Taxes ▪ Retail Pricing Options: Default, Fixed Price, Variable Price
3	Energy Business: Production and Utilities	<ul style="list-style-type: none"> ▪ Early Days of Industry: Edison, Tesla, Westinghouse ▪ Public Power: Municipal utilities and electric cooperatives ▪ Birth of the Modern Utilities: Insull, cost-of-service regulation ▪ The Regulatory Compact: Trading monopoly for oversight
4	Energy Policy: Context and Outlook	<ul style="list-style-type: none"> ▪ Drivers: Consumers, Business, Environment, Climate, Equity ▪ Legislative Primer: Review of the policymaking process ▪ State of Illinois Policies: PUA, Choice Law, IPA, EIMA, FEJA, CEJA ▪ Federal Policies: IJJA, IRA
5	Energy Transition: Goals and Constraints	<ul style="list-style-type: none"> ▪ Decarbonization ▪ Adoption and Impacts of electrification ▪ Constraints: Policy, Regulatory, and Markets Interactions
6	Energy Transition: Renewable Energy	<ul style="list-style-type: none"> ▪ Technology review: Wind, solar, geothermal, landfill gas ▪ Past deployments and the outlook ▪ Renewable Options in Illinois
7	Energy Transition: Energy Efficiency	<ul style="list-style-type: none"> ▪ Technology review: Lighting, controls, microgrids, Smart Cities ▪ Past deployments and the outlook ▪ Energy Efficiency Programs in Illinois