



CITY-BASED OPTIMIZATION MODEL FOR ENERGY TECHNOLOGIES

COMET – NEW YORK CITY

COMET IS DESIGNED TO HELP CITIES MAKE
SUSTAINABLE AND RESILIENT ENERGY DECISIONS.



ELECTRIC GENERATING UNITS

Existing and future technology characterization

- Natural gas
- Other generating units



COMMERCIAL BUILDINGS

Existing and future stock of energy technologies by building age and type in each borough to meet end-use demands:

- Space Heating
- Space Cooling
- Water Heating
- Lighting
- Misc. Load



RESIDENTIAL BUILDINGS

Existing and future stock of energy technologies by building age and type in each borough to meet end-use demands:

- Space Heating
- Space Cooling
- Water Heating
- Lighting
- Misc. Load



TRANSPORTATION:

Existing and future fleet characterization to meet transport demand for:

- Light duty vehicles
- Bus
- Medium duty vehicles
- Heavyduty, short haul vehicles
- Rail passenger and subway



ELECTRIC GENERATING UNITS IN NEW YORK STATE

Calibrated to electricity generation in 2010, 2015 and 2020, and included future electricity generating technologies

Gas

Nuclear

Hydro

Coal

Wind

Biomass

Oil

Other



FUEL AND ELECTRICITY IMPORTS TO NEW YORK STATE:

Extraction, production and transmission of oil & gas, coal, uranium; refinery products (gasoline, diesel); electricity

