

Cover Tab in Inputs and Assumptions Spreadsheet

<https://climate.ny.gov/-/media/Project/Climate/Files/2021-11-18-Integration-Analysis-Inputs-Assumptions-Workbook.ashx>

Tab Name	Contents
Sectoral Coverage	Mapping of emissions categories represented
Regions	Mapping of counties to NYISO zones and PATHWAYS regions
Activity Drivers	Demand-side drivers (population, housing units, square footage, VMT)
Bldg_Housing Unit Summary	2018 estimated distribution of various housing unit statistics (type of unit by region)
Building Sector Coverage	Summary of building subsectors, stock, energy demand
Bldg_Res Stock	Initial year stock by subsector, device lifetimes, and 2020 sales efficiency
Bldg_Res Efficiency	Summary of forecast device efficiencies for residential technologies
Bldg_Res Device Cost	Summary of device costs for residential devices
Bldg_Comm Stock	Initial year stock by subsector, device lifetimes, and 2020 sales efficiency
Bldg_Comm Efficiency	Summary of forecast device efficiencies for commercial technologies
Bldg_Comm Device Cost	Summary of device costs for commercial devices
Industry Sector Coverage	Summary of industrial subsectors, energy demand
Trans_Sector Coverage	Summary of transportation subsectors, stock, energy demand
Trans_Stock	Summary of stock data for transportation technologies
Trans_Fuel Economy	Summary of forecast fuel economy data for transportation technologies
Trans_Device Cost	Summary of forecast vehicle prices
Social Cost of GHG	Social cost of greenhouse gas mitigation values
AEO Commodity Prices	Key commodity prices for non-electric sectors
Fuel Prices (by sector)	Fuel prices for each sector and cost scenario
GWP Factors	Factors to convert emissions of various pollutants into carbon dioxide equivalent (CO2e) values
Emissions Factors	Factors to estimate emissions from fuel combustion, including factors for fossil combustion within state and upstream emissions associated with imports of fossil fuels
Hydrogen Costs	Summary of key cost metrics for hydrogen storage and total costs for all cost scenarios
DAC Costs	Summary of Direct Air Capture costs
EV and H2 Charger Cost	Forecast of costs for vehicle chargers (electric vehicle and hydrogen vehicles)
Financing Costs	Financing lifetimes and interest rates by sector
Non Energy Costs	Costs for non-energy emissions reductions in waste, agriculture, forestry, land use
Electric Sector ->	
Candidate Resources	List of candidate resource types included in model
RE Supply Curve	Resource potential estimates by zone for renewable resources
Going Forward Fixed Costs	Fixed cost estimates for existing thermal resources
Distribution System Costs	Key distribution system costs by region
Existing and Planned Capacity	Input capacity amounts for existing resources
Retirement Inputs	Lifetime and retirement-related assumptions by resource category
Resource Costs - Mid	Cost inputs and levelized costs by resource with Mid cost declines
Resource Costs - Low	Cost inputs and levelized costs by resource with Low cost declines
LBW Costs	Cost inputs for land-based wind in NYS
Solar Costs	Cost inputs for solar resources in NYS
OSW Costs	Cost inputs for offshore wind resources in NYS
Storage Costs	Cost inputs for storage resources in NYS
Gas Plant Costs	Cost inputs for new gas plants in NYS
Financing Assumptions	Financing assumptions by technology over time
Tx_Renewables	Transmission upgrade cost assumptions for new renewable additions
Zonal Topology	NYCA internal zone transfer capacity and import/export transfer limits
Thermal Op Char	Details on thermal plant operations in model
BTM PV growth	Behind-the-meter solar projections by zone to meet 6 GW by 2025 and 10 GW by 2030 targets
Mid Case Fuel Projections	Fuel cost calculations (translating from commodity to NY-specific fuel prices for electric sector, geographic and time-varying)
High Case Fuel Projections	Fuel cost calculations (translating from commodity to NY-specific fuel prices for electric sector, geographic and time-varying)
Low Case Fuel Projections	Fuel cost calculations (translating from commodity to NY-specific fuel prices for electric sector, geographic and time-varying)
RGGI Price Adders	\$/ton RGGI carbon costs included in modeling
Flexible Load Assumptions	Flexible end-use load parameters modeled in the electric sector