

FY19 SPP Utility Data Information

1.) Which data is included in the FY 19 Sustainability Performance Plans (SPPs), and where does it come from?

The following data were pulled from the state's utility tracking system, EnergyCAP, on November 20, 2019:

Data element	Source	Notes
Building energy use (MMBtu) and cost (\$)	EnergyCAP, Report 02	Includes breakdown by specific commodity including electric, natural gas, oil, propane, steam, and chilled water
Vehicle gasoline use (Gal) and cost (\$)	EnergyCAP, Report 02	Cost was calculated using the average weekly gasoline cost for FY19 from the U.S. Energy Information Administration (\$2.57)
Vehicle diesel use (Gal) and cost (\$)	EnergyCAP, Report 02	Cost was calculated using the average weekly diesel cost for FY19 from the U.S. Energy Information Administration (\$3.18)
Building water use (Kgal) and cost (\$)	EnergyCAP, Report 02	
Total GHG emissions (mtCO ₂ e)	EnergyCAP, GHG02PT – GHG Emissions by Place	EnergyCAP uses the EPA's eGRID GHG conversion factors to calculate emissions
Total utility cost (\$)		Sum of building energy use, gasoline, diesel, and water cost

2.) Which agencies track their utility data through EnergyCAP?

Executive Branch

Agriculture Experiment Station
 CT State Library
 Department Mental Health and Addiction Services
 Department of Administrative Services
 Department of Aging and Disability Services
 Department of Agriculture
 Department of Banking
 Department of Children and Families
 Department of Consumer Protection
 Department of Correction
 Department of Developmental Services
 Department of Economic & Community Development
 Department of Emergency Services & Public Protection
 Department of Energy & Environmental Protection
 Department of Housing
 Department of Insurance
 Department of Labor
 Department of Motor Vehicles
 Department of Public Health
 Department of Revenue Services

Department of Social Services
 Department of Transportation
 Department of Veterans Affairs
 Division of Criminal Justice
 Military Department
 Office of Early Childhood
 Office of Policy & Management
 State Department of Education

Non-Executive Branch

CT State Colleges & Universities
 UCONN
 UCONN Health
 Judicial Branch
 Public Defender Services
 CT General Assembly
 Capital Region Development Authority
 Connecticut Housing Finance Authority
 CT Lottery

There are agencies who are designated or voluntary participants in Executive Order 1 who do not have vehicle fuel data or building utility data to upload to EnergyCAP due to metering or gross lease limitations. These entities include CT Green Bank and Connecticut Innovations.

3.) What are the limitations of the data in the SPPs?

There are two primary limitations for the utility data used in the FY19 SPPs:

- **Data Collection Constraints:** The data for the FY 19 SPPs was pulled from EnergyCAP on November 20, 2019 when historical utility data was still being compiled by agencies in EnergyCAP. For this reason, the data may be incomplete. Historical data collection is scheduled to be completed by fall 2020. At the time of the data pull, Eversource electric and natural gas data was fully populated for all identified meters and accounts in state inventory.
- **Accounting for Shared Spaces:** At the time of the development of the FY 19 SPPs, utility data on agencies occupying spaces owned by another state agency may not have been linked to their EnergyCAP accounts, so some agencies will not have building utility data linked to their EnergyCAP account in this report. In cases with shared agency spaces, the utility use and cost is attributed to the landlord agency. Additionally, data from agencies in leased or shared spaces that are not billed with itemized utility usage by a non-state landlord was not captured in this dataset.

4.) What factors were used to calculate emissions from electric grid consumption?

EPA 2016 eGRID emission factors were automatically used in EnergyCAP's GHG emission calculations. The specific emission factors used in FY19 SPPs electric grid emission factors are as follows:

Carbon Dioxide (CO₂) - 558.165 lb/MWh
CO₂ Equivalent (CO₂E) or Global Warming Potential (GWP) - 1.00

Methane (CH₄) - 0.090 lb/MWh
CO₂E (GWP) - 21.00

Nitrous Oxide (N₂O) - 0.012 lb/MWh
CO₂E (GWP) - 310.00