Building Energy Data Exchange Specification (BEDES) Compliant Mapping

Date 7/24/2018

Implementation NYCEEC EfficienSEE 3.0 Database

Implementation Version SWA 12-13-17 version

BEDES Version V2.1

For more information about BEDES, please visit https://bedes.lbl.gov/bedes-online

Field Name	Units Description BEI	DES Term	BEDES Mapping	BEDES Units	BEDES Notes	NYCEEC Answers
			Identifier Label = "Premises"			
BBL	Pre	emises Identifier	Identifier = [value]		Definition BBL = Building Block Lot	Building Block Lot #. This seems like it is unique to NYC.
			Address Line 1 = [value]		BEDES does not concatenate parts of full address. Your application can use whatever internal Field Name and	
			City = [value]		value(s) you want. This mapping simply indicates that to	
			State = [value]		transform your data to BEDES Terms, it would need to be	
Address	Add		ZIP Code = [value]		parsed.	Okay, got it. Anything else to make this BEDES compliant?
			Premises Level = "Building"			
			Floor Area Qualifier = "Gross" Opaque Surface = "Floor"			
BldgArea	Bui	illding Gross Floor Area	Area = [value]	ft2		
			Spatial Unit Type = "Building"			
NumBldgs	Bui	ilding Quantity	Quantity = [value]			
			Spatial Unit Type = "Floor"			
NumFloors	Flo		Quantity = [value] Occupancy Classification = "Residential"			
			Spatial Unit Type = "Unit"			
UnitsRes	Res	sidential Unit Quantity	Quantity = [value]			
			Construction Status = "Completed"			
YearBuilt			Construction Status Date = [value] Date Format = "Year"	Year		
	Cor		Assessment Program = "ENERGY STAR"	Year		
ENERGY STAR Score	ENI		Assessment Value = [value]			
			Interval Frequency = "Annual"			
			Normalization = "Weather normalized"			
Weather Normalized Source EUI (kBtu/ft²)			Resource Boundary = "Source" Resource = "Energy"			
			Resource = "Energy" Resource Intensity = [value]			
	Anr	inual Weather Normalized Source Energy Resource Intensity	Unit Of Measure = "kBtu/ft2"	kBtu/ft2		
			Interval Frequency = "Annual"	,		
			Normalization = "National median"			
National Median Source EUI (kBtu/ft²)			Resource Boundary = "Source"			
			Resource = "Energy" Resource Intensity = [value]			
	Anr		Unit Of Measure = "kBtu/ft2"	kBtu/ft2		
		,	Interval Frequency = "Annual"			
% Difference from National Median Source EUI			Normalization = "National median"			
	Anr		Percent Improvement = [value]	Percent		
			Interval Frequency = "Annual" Resource = "Fuel oil no 1"			
Fuel Oil #1 Use (kBtu)			Resource Value = [value]			
	Ann	nual Fuel Oil No 1 Resource Value	Unit Of Measure = "kBtu"	kBtu		
			Interval Frequency = "Annual"			
Fuel Oil #2 Use (kBtu)			Resource = "Fuel oil no 2"			
	Δnr		Resource Value = [value] Unit Of Measure = "kBtu"	kBtu		
	Alli		Interval Frequency = "Annual"	KDtu		
Fuel Oil #4 Use (kBtu)			Resource = "Fuel oil no 4"			
r dei Oil 144 Ose (Abid)			Resource Value = [value]			
	Anr		Unit Of Measure = "kBtu" Interval Frequency = "Annual"	kBtu		
			Resource = "Fuel oil no 5 and no 6"			
Fuel Oil #5 & 6 Use (kBtu)			Resource Value = [value]			
	Anr		Unit Of Measure = "kBtu"	kBtu		
			Interval Frequency = "Annual"			
Diesel #2 Use (kBtu)			Resource = "Diesel" Resource Value = [value]		DEDEC door not differentiate Discal fuel #2, but can either add	Annual. This is a different type of fuel from fuel oil#2 , why not differentiate? Can you specify what you mean by "#2", since
	Δnr	inual Diesel Resource Value	Unit Of Measure = "kBtu"	kBtu	this or use a temporary custom value if needed.	I assume that "#2" is fuel oil 2.
	7411		Interval Frequency = "Annual"	KDta	,	
Kerosene Use (kBtu)			Resource = "Kerosene"			
,			Resource Value = [value]			
	Anr		Unit Of Measure = "kBtu" Interval Frequency = "Annual"	kBtu		
			Resource = "Propane"			
Propane Use (kBtu)			Resource Value = [value]			
	Ann		Unit Of Measure = "kBtu"	kBtu		
			Interval Frequency = "Annual"			
District Steam Use (kBtu)			Resource = "District steam" Resource Value = [value]			
	Anr		Unit Of Measure = "kBtu"	kBtu		
			Interval Frequency = "Annual"			
District Hot Water Use (kBtu)			Resource = "District hot water"			
			Resource Value = [value] Unit Of Measure = "kBtu"	Line		
	Anr		Interval Frequency = "Annual"	kBtu		
District Chilled Water Use (kBtu)			Resource = "District chilled water!"			
District Unilled Water Use (kBtu)			Resource Value = [value]			
	Ann		Unit Of Measure = "kBtu"	kBtu		
			Interval Frequency = "Annual" Resource = "Natural gas"			
Natural Gas Use (kBtu)			Resource = "Natural gas" Resource Value = [value]			
	Ann		Unit Of Measure = "kBtu"	kBtu		
Greatest Used Fuel Type			Priority = "Primary"			
	Prir	imary Resource	Resource = [value]			

		Interval Frequency = "Annual"			
		Resource Generation = "Delivered" Resource Boundary = "Gross"			
Electricity Use - Grid Purchase and Generated from		Resource Boundary = "Gross" Resource Boundary = "Onsite"			
Onsite Renewable Systems (kBtu)		Resource Generation = "Renewable"			
		Resource = "Electricity" Resource Value = [value]			
	Annual Delivered And Gross Onsite Renewable Electricity Reso		kBtu		
	, , , , , , , , , , , , , , , , , , , ,	Custom Identifier Label = "Clean Building			
CLEAN BBLs		Block Lot"			
	Clean Building Block Lot Identifier	Identifier = [value]		Range of concatenated varying elements such as: "Occupancy	
				Classification", "Completed Construction Status Date", "Floor	
TWG Building Typology				Quantity", "Heating Resource", etc. Need separation for BEDES	
				mapping.	Okay, we don't need to map this term, this can be broken out. Can you provide possible breakouts? Did not find them.
Flag To Throw Building Out of Analysis ONLY display flags, no data	NO MAPPING				
Water Data Issue Summary Flag (missing, too					
high, or too low)	NO MAPPING				
Is a NYCHA Property?	NO MAPPING				
Vintage	NO MAPPING				
		Interval Frequency = "Annual"			
Fuel Usage kBtu/SF		Resource Boundary = "Site" Resource = "Energy"			
Tuel Osage Kotaysi		Resource Intensity = [value]			
	Annual Site Energy Resource Intensity	Unit Of Measure = "kBtu/ft2"	kBtu/ft2		
		Interval Frequency = "Annual" Resource Boundary = "Site"			
Electric Usage kBtu/SF		Resource = "Electricity"			
		Resource Intensity = [value]			
	Annual Site Electricity Resource Intensity	Unit Of Measure = "kBtu/ft2"	kBtu/ft2		
		Interval Frequency = "Annual" Derivation Method = "Estimated"			
Total Estimated 2016 LL84 Energy Spend		Resource = "Energy"			
(\$/year)	Annual Estimated Energy Resource Cost	Resource Cost = [value]	\$		
		Interval Frequency = "Annual" Derivation Method = "Estimated"			
		Custom Resource = "NonElectric Fuel"			
Total Estimated 2016 LL84 FUEL Usage		Resource Intensity = [value]			
(kBtu/SF/year)	Annual Estimated NonElectric Fuel Resource Intensity	Unit Of Measure = "kBtu/ft2" Interval Frequency = "Annual"	kBtu/ft2		This is meant to be generic for NOT electricity
		Derivation Method = "Estimated"			
		Custom Resource = "NonElectric Fuel"			
Total Estimated 2016 LL84 FUEL Usage		Resource Value = [value] Unit Of Measure = "kBtu"	kRtu		Will and the state of the state
(kBtu/year)	Annual Estimated NonElectric Fuel Resource Value	Interval Frequency = "Annual"	KBtu		This is meant to be generic for NOT electricity
		Derivation Method = "Estimated"			
		Resource = "Electricity"			
Total Estimated 2016 LL84 Electricity Usage (kBtu/SF/year)	Annual Estimated Electricity Resource Intensity	Resource Intensity = [value] Unit Of Measure = "kBtu/ft2"	kBtu/ft2		
()	,	Interval Frequency = "Annual"			
		Derivation Method = "Estimated"			
Total Estimated 2016 LL84 Electricity Usage		Resource = "Electricity" Resource Value = [value]			
(kBtu/year)	Annual Estimated Electricity Resource Value	Unit Of Measure = "kBtu"	kBtu		
		Interval Frequency = "Annual"			
		Derivation Method = "Estimated" Emission Gas Type = "GHG"			
Total Estimated 2016 LL84 GHG Emissions		Emission Gas Type = GnG Emissions Value = [value]			
(Mton/year)	Annual Estimated GHG Emissions Value	Unit Of Measure = "MtCO2e"	MtCO2e		
		Benchmark Peer Group = "10th TWG Fuel Comp Group"			
10th %tile value in TWG Fuel Comp Group	10th TWG Fuel Comp Group Benchmark Percentile	Benchmark Percentile = [value]	Percent		
		Benchmark Peer Group = "20th TWG Fuel			
20th %tile value in TWG Fuel Comp Group	20th TMC First Course Course Development Development	Comp Group" Benchmark Percentile = [value]	Percent		
20th %tile value in Two Fuel Comp Group	20th TWG Fuel Comp Group Benchmark Percentile	Derivation Method = "Estimated"	Percent		
		Custom Resource = "NonElectric Fuel"		ESP = Estimated Savings Potential	
Fuel ESP \$ per BBL	Estimated NonElectric Fuel Cost Savings	Cost Savings = [value]	\$	ESP means the values are "savings" (e.g., cost savings)	Energy Savings Potential
		Derivation Method = "Estimated" Custom Resource = "NonElectric Fuel"			
		Interval Measure = "Total"			
Fuel FCD % of total or service (A)		Cost Attribution = "Cost"		Confused by (\$) at the end of this field name, which implies unit	
Fuel ESP % of total energy cost (\$)	Estimated NonElectric Fuel Total Cost Percent Improvement	Percent Improvement = [value] Derivation Method = "Estimated"	%	of measurement is dollars rather than percent.	
		Custom Resource = "NonElectric Fuel"		Is Site intended to differentiate from Source, or does it just	
Fuel FOR (she line) as 2011		Resource Savings = [value] Unit Of Measure = "kBtu"		mean total for this location? Are there more than one BBL per site?	
Fuel ESP (site kBtu per BBL)	Estimated NonElectric Fuel Resource Savings	Unit Of Measure = "kBtu" Derivation Method = "Estimated"	kBtu	siter	
		Custom Resource = "NonElectric Fuel"			
		Interval Measure = "Total"			
Fuel ESP % of total site kBtu	Estimated NonElectric Fuel Total Percent Improvement	Percent Improvement = [value] Unit Of Measure = "kBtu"	kBtu	Are these all "Annual" values?	
	Estimated Montpectale ruler rotal Percent Improvement		KDLU		

			Priority = "Primary" Custom Resource = "NonElectric Fuel" Emission Gas Type = "CO2e" Emissions Value = [value]			
Fi	ESP MT CO2 based on primary fuel type uel ESP \$ per BBL uel ESP \$ of total energy cost (\$) uel ESP (site kBtu per BBL) uel ESP \$ of total site kBtu	Estimated Primary NonElectric Fuel CO2e Emissions Value	Unit Of Measure = "Mass ton"	Mass ton	is this intended to be Emissions Value, or Emissions Savings? duplicate with rows above. Original spreadsheet shows 10th and 20th percentile differentiation.	
FI	ESP MT CO2 based on primary fuel type		Benchmark Peer Group = "10th TWG Electric			
10	Oth %tile value in TWG Electric Comp Group	10th TWG Electric Comp Group Benchmark Percentile	Comp Group" Benchmark Percentile = [value] Benchmark Peer Group = "20th TWG Electric Comp Group"	Percent		
20	Oth %tile value in TWG Electric Comp Group	20th TWG Electric Comp Group Benchmark Percentile	Benchmark Percentile = [value] Derivation Method = "Estimated" Resource = "Electricity"	Percent		
E	ESP \$/BBL	Estimated Electricity Cost Savings	resource = Electricity Cost Savings = [Value] Derivation Method = "Estimated" Resource = "Electricity" Interval Measure = "Total" Cost Attribution = "Cost"	\$		Electric Energy Savings Potential
EI	ESP % of total energy cost (\$)	Estimated Electricity Total Cost Percent Improvement	Percent Improvement = [value] Derivation Method = "Estimated" Resource = "Electricity" Resource Savings = [value]	%		Electric Energy Savings Potential
E	ESP (site k8tu/B8L)	Estimated Electricity Resource Savings	Unit Of Measure = "KBtu" Derivation Method = "Estimated" Resource = "Electricity" Interval Measure = "Total"	kBtu		Electric Energy Savings Potential
FI	lectric ESP % of total site kBtu	Estimated ElectricityTotal Percent Improvement	Percent Improvement = [value] Unit Of Measure = "kBtu"	kBtu		Electric Energy Savings Potential
		Example Decoraty out a celeta in protein call	Derivation Method = "Estimated" Resource = "Electricity" Emission Gas Type = "CO2e" Emissions Value = [value]	NO.		Electric Energy Savings I occinion
E	ESP MT CO2e/year	Estimated Electricity CO2e Emissions Value	Unit Of Measure = "Mass ton"	Mass ton	Is this intended to be Emissions Value, or Emisisons Savings? duplicate with rows above. Original spreadsheet shows 10th	Electric Energy Savings Potential
	ESP \$/BBL				and 20th percentile differentiation.	Electric Energy Savings Potential
E	ESP % of total energy cost (\$) ESP (site kBtu/BBL) Lectric ESP % of total site kBtu ESP MT COZe/year					Electric Energy Savings Potential Electric Energy Savings Potential Electric Energy Savings Potential Electric Energy Savings Potential
EI EI	ESP (site kBtu/BBL) lectric ESP % of total site kBtu ESP MT CO2e/year		Derivation Method = "Estimated" Interval Measure = "Total" Resource = "Energy"			Electric Energy Savings Potential Electric Energy Savings Potential Electric Energy Savings Potential
EI EI	ESP (site kBtu/BBL)	Estimated Total Energy Cost Savings	Interval Measure = "Total"	\$		Electric Energy Savings Potential Electric Energy Savings Potential
E E T	ESP (site kBtu/BBL) lectric ESP % of total site kBtu ESP MT CO2e/year	Estimated Total Energy Cost Savings Estimated Total Energy Cost Percent Improvement	Interval Measure = "Total" Resource = "Tengy" Cost Savings [value] Derivation Method = "Estimated" Interval Measure = "Total" Resource = "Tengy" Cost Attribution = "Cost" Percent Improvement = [value] Derivation Method = "Estimated" Interval Measure = "Total" Interval Measure = "Total"	\$ %		Electric Energy Savings Potential Electric Energy Savings Potential Electric Energy Savings Potential
EI EI To	ESP (site kBtu/BBL) lectric ESP % of total site kBtu ESP MT COZe/year		Interval Measure = "Total" Resource = "Energy" Cost Savings = [value] Derivation Method = "Estimated" Interval Measure = "Total" Resource = "Energy" Cost Attribution = "Cost" Percent Improvement = [value] Derivation Method = "Estimated" Interval Measure = "Total"			Electric Energy Savings Potential Electric Energy Savings Potential Electric Energy Savings Potential Energy Savings Potential Energy Savings Potential
E E E E E E E E E E E E E E E E E E E	ESP (site kBtu/BBL) lectric ESP % of total site kBtu ESP MT COZe/year otal ESP S/BBL otal ESP percentage savings from S/BBL	Estimated Total Energy Cost Percent Improvement	Interval Measure = "Total" Resource = "Energy" Cost Savings = [value] Derivation Method = "Estimated" Interval Measure = "Total" Resource = "Energy" Cost Attribution = "Cost" Percent improvement = [value] Derivation Method = "Estimated" Interval Measure = "Total" Resource = "Energy" Resource = "Energy" Resource = "Energy" Derivation Method = "Estimated" Interval Measure = "Iotal" Derivation Method = "Estimated" Interval Measure = "Total"	%		Electric Energy Savings Potential Electric Energy Savings Potential Electric Energy Savings Potential Energy Savings Potential Energy Savings Potential Energy Savings Potential
EI EI TO	ESP (site kBtu/BBL) lectric ESP % of total site kBtu ESP MT COZe/year otal ESP \$/BBL otal ESP percentage savings from \$/BBL otal ESP site kBtu/BBL	Estimated Total Energy Cost Percent Improvement Estimated Total Energy Resource Savings	Interval Measure = "Total" Resource = "Energy" Cost Savings = [value] Derivation Method = "Estimated" Interval Measure = "Total" Resource = "Energy" Cost Attribution = "Cost" Percent Improvement = [value] Derivation Method = "Estimated" Interval Measure = "Total" Resource = "Energy" Resource = "Energy" Resource = "Energy" Derivation Method = "Estimated" Interval Measure = "Natu" Derivation Method = "Estimated" Interval Measure = "Total" Resource = "Energy" Resource = "Energy" Interval Measure = "Total" Emission Gas Type = "Co2e"	% kBtu	ts this intended to be Emissions Value, or Emisisons Savings?	Electric Energy Savings Potential Electric Energy Savings Potential Electric Energy Savings Potential Energy Savings Potential Energy Savings Potential Energy Savings Potential
EI EI TO	ESP (site kBtu/BBL) lectric ESP % of total site kBtu ESP MT COZe/year otal ESP \$/BBL otal ESP percentage savings from \$/BBL otal ESP site kBtu/BBL	Estimated Total Energy Cost Percent Improvement Estimated Total Energy Resource Savings Estimated Total Energy Percent Improvement	Interval Measure = "Total" Resource = "Energy" Cost Savings = [value] Derivation Method = "Estimated" Interval Measure = "Total" Resource = "Energy" Cost Attribution = "Cost" Percent Improvement = [value] Derivation Method = "Estimated" Interval Measure = "Total" Resource = "Energy" Resource = "Energy" Resource = "Energy" Unit Of Measure = "Katu" Derivation Method = "Estimated" Interval Measure = "Total" Resource = "Energy" Resource = "Estimated" Interval Measure = "Total" Resource = "Total" Resource = "Total" Resource = "Cotal" Enercent Improvement = [value] Derivation Method = "Estimated" Interval Measure = "Total" Emission Gas Type = "CO2e" Emissions Value = [value] Unit Of Measure = "Mass ton" Derivation Method = "Estimated" Interval Measure = "Total" Emission Savine = "Total" Emission Savine = "Total" Interval Measure = "Total" Interval Measure = "Total"	% KBtu % Mass ton		Electric Energy Savings Potential Electric Energy Savings Potential Electric Energy Savings Potential
E E E E E E E E E E E E E E E E E E E	ESP (site kBttu/BBL) lectric ESP % of total site kBtu ESP MT COZe/year otal ESP S/BBL otal ESP percentage savings from S/BBL otal ESP site kBttu/BBL otal ESP percentage savings from kBttu/BBL otal ESP percentage savings from kBttu/BBL	Estimated Total Energy Cost Percent Improvement Estimated Total Energy Resource Savings Estimated Total Energy Percent Improvement Estimated Total CO2e Emissions Value	Interval Measure = "Total" Resource = "Energy" Cost Savings = [value] Derivation Method = "Estimated" Interval Measure = "Total" Resource = "Energy" Cost Attribution = "Cost" Percent Improvement = [value] Derivation Method = "Estimated" Interval Measure = "Total" Resource = "Energy" Resource = Energy" Resource = Savings = [value] Unit Of Measure = "Retu" Derivation Method = "Estimated" Interval Measure = "Total" Resource = "Energy" Resource = "Energy" Percent Improvement = [value] Derivation Method = "Estimated" Interval Measure = "Total" Emission Gas Type = "Co2e" Emission Sav [ype = "Co2e" Emission Sav [ype = "Co2e" Emission Measure = "Mass ton" Derivation Measure = "Mass ton" Derivation Measure = "Total" Emission Gas Type = "Co2e" Emission Measure = "Mass ton" Derivation Measure = "Total" Emission Gas Type = "Co2e"	% KBtu % Mass ton	Is this intended to be Emissions Value, or Emisisons Savings? duplicate with rows above. Original spreadsheet shows 10th and 20th percentile differentiation.	Electric Energy Savings Potential Electric Energy Savings Potential Electric Energy Savings Potential
To T	ESP (site kBttu/BBL) LECTIVE ESP (of total site kBtu LESP MT COZe/year otal ESP S/BBL otal ESP percentage savings from \$/BBL otal ESP site kBttu/BBL otal ESP percentage savings from kBttu/BBL otal ESP percentage savings from kBttu/BBL otal ESP percentage savings from COZe/BBL otal ESP S/BBL otal ESP S/BBL otal ESP S/BBL otal ESP S/BBL otal ESP S/BBL	Estimated Total Energy Cost Percent Improvement Estimated Total Energy Resource Savings Estimated Total Energy Percent Improvement Estimated Total CO2e Emissions Value	Interval Measure = "Total" Resource = "Energy" Cost Savings = [value] Derivation Method = "Estimated" Interval Measure = "Total" Resource = "Energy" Cost Attribution = "Cost" Percent Improvement = [value] Derivation Method = "Estimated" Interval Measure = "Total" Resource = "Energy" Resource = Energy" Resource = Savings = [value] Unit Of Measure = "Retu" Derivation Method = "Estimated" Interval Measure = "Total" Resource = "Energy" Resource = "Energy" Percent Improvement = [value] Derivation Method = "Estimated" Interval Measure = "Total" Emission Gas Type = "Co2e" Emission Sav [ype = "Co2e" Emission Sav [ype = "Co2e" Emission Measure = "Mass ton" Derivation Measure = "Mass ton" Derivation Measure = "Total" Emission Gas Type = "Co2e" Emission Measure = "Mass ton" Derivation Measure = "Total" Emission Gas Type = "Co2e"	% KBtu % Mass ton	duplicate with rows above. Original spreadsheet shows 10th	Electric Energy Savings Potential Electric Energy Savings Potential Electric Energy Savings Potential

Derivation Method = "Estimated"

		Derivation Method = "Estimated"		
		Interval Frequency = "Annual"		
		Resource = "Electricity"		
		Resource Savings = [value]		
Electricity Savings Estimate kWh/year/BBL	Estimated Annual Electricity Resource Savings	Unit Of Measure = "kWh"	kWh	Is the savings from CHP? It is not labeled as such.
		Derivation Method = "Estimated"		
		Interval Frequency = "Annual"		
fuel and an interest the same fuel and form		Resource = "Natural gas"		
fuel use savings Therms/year/BBL (negative =	Fables and Assembly Natural Cas Baseman Caulana	Resource Savings = [value]	Th	
increase in gas usage)	Estimated Annual Natural Gas Resource Savings	Unit Of Measure = "Therm"	Therm	
		Derivation Method = "Estimated" Interval Frequency = "Annual"		
		Energy Generation Technology =		
		"Cogeneration"		
CHP Potential Savings \$/BBL	Estimated Annual Cogeneration Cost Savings	Cost Savings = [value]	\$	
CHI Fotential Savings 3/DDC	Estillated Allifold Cogeneration Cost Savings	Derivation Method = "Estimated"	7	
		Interval Frequency = "Annual"		
		Energy Generation Technology =		
		"Cogeneration"		
		Resource Boundary = "Site"		
		Resource = "Energy"		
		Resource Savings = [value]		
CHP site savings potential kBtu/BBL	Estimated Annual Cogeneration Site Energy Resource Savings	Unit Of Measure = "kBtu"	kBtu	
• • • • • • • • • • • • • • • • • • • •	•	Derivation Method = "Estimated"		
		Interval Frequency = "Annual"		
		Energy Generation Technology =		
		"Cogeneration"		
		Resource Boundary = "Source"		
		Resource = "Energy"		
		Resource Savings = [value]		
CHP source savings potential kBtu/BBL	Estimated Annual Cogeneration Source Energy Resource Savin		kBtu	
		Derivation Method = "Estimated"		
		Interval Frequency = "Annual"		
		Energy Generation Technology =		
		"Cogeneration"		
		Emission Gas Type = "CO2e"		
		Emissions Savings = [value]		
CHP Potential savings MT CO2e/BBL	Estimated Annual Cogeneration CO2e Emissions Savings	Unit Of Measure = "Mass ton"	Mass ton	
CHP Candidate? Y=1, N=0				
Electricity Savings Estimate kWh/year/BBL				duplicate with rows above. Original spreadsheet shows Master
Electricity Savings Estimate KWn/year/BBL				Meter vs Direct Meter differentiation.
fuel use savings Therms/year/BBL (negative =				
fuel use savings Therms/year/BBL (negative = increase in gas usage)				
fuel use savings Therms/year/BBL (negative = increase in gas usage) CHP Potential savings \$/BBL				
fuel use savings Therms/year/BBL (negative = increase in gas usage) CHP Potential savings \$/BBL CHP site savings potential kBtu/BBL				
fuel use savings Therms/year/BBL (negative = increase in gas usage) CHP Potential savings \$/BBL CHP site savings potential kBtu/BBL CHP source savings potential kBtu/BBL				
fuel use savings Therms/year/BBL (negative = increase in gas usage) CHP Potential savings \$/BBL CHP site savings potential kBtu/BBL		Derivation Method = "Fstimated"		
fuel use savings Therms/year/BBL (negative = increase in gas usage) (CHP Potential savings 5/BBL CHP site savings potential kBtu/BBL CHP source savings potential kBtu/BBL CHP Potential savings MT COZe/BBL		Derivation Method = "Estimated"		
fuel use savings Therms/year/BBL (negative = increase in gas usage) CHP Potential savings 5/BBL CHP site savings potential k8tu/BBL CHP source savings potential k8tu/BBL CHP Potential savings MT CO2e/BBL After ESP Oil Savings Potential #4 to #2 (\$ per		Interval Frequency = "Annual"		
fuel use savings Therms/year/BBL (negative = increase in gas usage) (CHP Potential savings 5/BBL CHP site savings potential kBtu/BBL CHP source savings potential kBtu/BBL CHP Potential savings MT COZe/BBL				
fuel use savings Therms/year/BBL (negative = increase in gas usage) CHP Potential savings 5/BBL CHP site savings potential k8tu/BBL CHP source savings potential k8tu/BBL CHP Potential savings MT CO2e/BBL After ESP Oil Savings Potential #4 to #2 (\$ per	Estimated Annual Fuel oil no 4 Fuel oil no 2 Cost Savings	Interval Frequency = "Annual" Resource = "Fuel oil no 4"	\$	What is the word "After" intended to mean?
fuel use savings Therms/year/BBL (negative = increase in gas usage) CHP Potential savings 5/BBL CHP site savings potential k8tu/BBL CHP source savings potential k8tu/BBL CHP Potential savings MT CO2e/BBL After ESP Oil Savings Potential #4 to #2 (\$ per	Estimated Annual Fuel oil no 4 Fuel oil no 2 Cost Savings	Interval Frequency = "Annual" Resource = "Fuel oil no 4" Resource = "Fuel oil no 2" Cost Savings = [value]	\$	What is the word "After" intended to mean?
fuel use savings Therms/year/BBL (negative = increase in gas usage) CHP Potential savings 5/BBL CHP site savings potential k8tu/BBL CHP source savings potential k8tu/BBL CHP Potential savings MT CO2e/BBL After ESP Oil Savings Potential #4 to #2 (\$ per	Estimated Annual Fuel oil no 4 Fuel oil no 2 Cost Savings	Interval Frequency = "Annual" Resource = "Fuel oil no 4" Resource = "Fuel oil no 2"	\$	What is the word "After" intended to mean?
fuel use savings Therms/year/BBL (negative = increase in gas usage) CHP Potential savings 5/BBL CHP arte savings potential k8tu/BBL CHP out savings potential k8tu/BBL CHP Potential savings MT CO2e/BBL After ESP Oil Savings Potential #4 to #2 (\$ per year) After ESP Oil Savings Potential #4 to #2 (MT	Estimated Annual Fuel oil no 4 Fuel oil no 2 Cost Savings	Interval Frequency = "Annual" Resource = "Fuel oil no 4" Resource = "Fuel oil no 2" Cost Savings = [value] Derivation Method = "Estimated"	\$	What is the word "After" intended to mean?
fuel use savings Therms/year/BBL (negative = increase in gas usage) (CHP Potential savings \$/BBL CHP site savings potential k8tu/BBL CHP source savings potential k8tu/BBL CHP Potential savings MT CO2e/BBL After ESP Oil Savings Potential #4 to #2 (\$ per year)	Estimated Annual Fuel oil no 4 Fuel oil no 2 Cost Savings	Interval Frequency = "Annual" Resource = "Fuel oil no 4" Resource = "Fuel oil no 2" Cost Savings = [value] Derivation Method = "Estimated" Interval Frequency = "Annual" Resource = "Fuel oil no 4" Resource = "Fuel oil no 2"	\$	What is the word "After" intended to mean?
fuel use savings Therms/year/BBL (negative = increase in gas usage) CHP Potential savings 5/BBL CHP arte savings potential k8tu/BBL CHP out savings potential k8tu/BBL CHP Potential savings MT CO2e/BBL After ESP Oil Savings Potential #4 to #2 (\$ per year) After ESP Oil Savings Potential #4 to #2 (MT		Interval Frequency = "Annual" Resource = "Fuel oil no 4" Resource = "Fuel oil no 2" Cost Savings = [value] Derivation Method = "Estimated" Interval Frequency = "Annual" Resource = "Fuel oil no 4" Resource = "Fuel oil no 2" Emissions Savings = [value]	·	What is the word "After" intended to mean?
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fuel use savings Therms/year/BBL (negative = increase in gas usage) CHP Protential savings S/BBL CHP source savings potential kBtu/BBL CHP Potential savings MT CO2e/BBL After ESP Oil Savings Potential #4 to #2 (\$ per year) After ESP Oil Savings Potential #4 to #2 (MT CO2 per year) After ESP Oil Savings Potential #4 to gas (\$ per year) After ESP Oil Savings Potential #4 to gas (\$ per year) After ESP Oil Savings Potential #4 to gas (MT CO2 per year)	Estimated Annual Fuel oil no 4 Fuel oil no 2 Emissions Savings Estimated Annual Fuel oil no 4 Natural Gas Cost Savings Estimated Annual Fuel oil no 4 Natural Gas Emissions Savings	Interval Frequency = "Annual" Resource = "Fuel oil no 4" Resource = "Fuel oil no 2" Cost Savings = [value] Derivation Method = "Estimated" Interval Frequency = "Annual" Resource = "Fuel oil no 2" Emissions Savings = [value] Unit Of Measure = "Mass ton" Derivation Method = "Estimated" Interval Frequency = "Annual" Resource = "Fuel oil no 4" Resource = "Fuel oil no 4" Resource = "Fuel oil no 4" Resource = "Satural gas" Cost Savings = [value] Derivation Method = "Estimated" Interval Frequency = "Annual" Resource = "Fuel oil no 4" Resource = "Fuel oil no 4" Resource = "Fuel oil no 4" Resource = "Satural gas" Cost Savings = [value] Unit Of Measure = "Mass ton" Derivation Method = "Estimated" Interval Frequency = "Annual" Resource = "Fuel oil no 2" Resource = "Natural gas" Cost Savings = [value] Unit Of Measure = "Mass ton" Derivation Method = "Estimated" Interval Frequency = "Annual" Resource = "Natural gas" Cost Savings = [value] Derivation Method = "Estimated" Interval Frequency = "Annual" Resource = "Natural gas" Cost Savings = [value] Derivation Method = "Estimated"	Mass ton \$ Mass ton	What is the word "After" intended to mean?
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fuel use savings Therms/year/BBL (negative = increase in gas usage) CHP Protential savings S/BBL CHP Potential savings S/BBL CHP source savings potential RBtu/BBL CHP Potential savings MT CO2e/BBL After ESP Oil Savings Potential #4 to #2 (\$ per year) After ESP Oil Savings Potential #4 to #2 (MT CO2 per year) After ESP Oil Savings Potential #4 to gas (\$ per year) After ESP Oil Savings Potential #4 to gas (MT CO2 per year) After ESP Oil Savings Potential #4 to gas (MT CO2 per year) After ESP Oil Savings Potential #4 to gas (\$ per year) After ESP Oil Savings Potential #2 to gas (\$ per year)	Estimated Annual Fuel oil no 4 Fuel oil no 2 Emissions Savings Estimated Annual Fuel oil no 4 Natural Gas Cost Savings Estimated Annual Fuel oil no 4 Natural Gas Emissions Savings	Interval Frequency = "Annual" Resource = "Fuel oil no 4" Resource = "Fuel oil no 2" Cost Savings = [value] Derivation Method = "Estimated" Interval Frequency = "Annual" Resource = "Fuel oil no 2" Emissions Savings = [value] Unit Of Measure = "Mass ton" Derivation Method = "Estimated" Interval Frequency = "Annual" Resource = "Fuel oil no 4" Resource = "Fuel oil no 4" Resource = "Natural gas" Cost Savings = [value] Derivation Method = "Estimated" Interval Frequency = "Annual" Resource = "Natural gas" Cost Savings = [value] Unit Of Measure = "Mass ton" Derivation Method = "Estimated" Interval Frequency = "Annual" Resource = "Fuel oil no 4" Resource = "Fuel oil no 4" Resource = "Fuel oil no 4" Resource = "Annual" Resource = "Fuel oil no 4" Resource = "Natural gas" Emissions Savings = [value] Unit Of Measure = "Mass ton" Derivation Method = "Estimated" Interval Frequency = "Annual" Resource = "Fuel oil no 2" Resource = "Natural gas" Cost Savings = [value] Derivation Method = "Estimated" Interval Frequency = "Annual" Resource = "Fuel oil no 2" Resource = "Fuel oil no 2"	Mass ton \$ Mass ton	What is the word "After" Intended to mean?
fuel use savings Therms/year/BBL (negative = increase in gas usage) CHP Protential savings 5/BBL CHP site savings potential kBtu/BBL CHP source savings potential kBtu/BBL CHP Potential savings MT CO2e/BBL After ESP Oil Savings Potential #4 to #2 (\$ per year) After ESP Oil Savings Potential #4 to #2 (MT CO2 per year) After ESP Oil Savings Potential #4 to gas (\$ per year) After ESP Oil Savings Potential #4 to gas (MT CO2 per year) After ESP Oil Savings Potential #4 to gas (\$ per year) After ESP Oil Savings Potential #2 to gas (\$ per year) After ESP Oil Savings Potential #2 to gas (\$ per year)	Estimated Annual Fuel oil no 4 Fuel oil no 2 Emissions Savings Estimated Annual Fuel oil no 4 Natural Gas Cost Savings Estimated Annual Fuel oil no 4 Natural Gas Emissions Savings Estimated Annual Fuel oil no 2 Natural Gas Cost Savings	Interval Frequency = "Annual" Resource = "Fuel oil no 4" Resource = "Fuel oil no 2" Cost Savings = [value] Derivation Method = "Estimated" Interval Frequency = "Annual" Resource = "Fuel oil no 2" Emissions Savings = [value] Unit Of Measure = "Mass ton" Derivation Method = "Estimated" Interval Frequency = "Annual" Resource = "Fuel oil no 4" Resource = "Fuel oil no 4" Resource = "Fuel oil no 4" Resource = "Satural gas" Cost Savings = [value] Derivation Method = "Estimated" Interval Frequency = "Annual" Resource = "Fuel oil no 4" Resource = "Fuel oil no 2" Resource = "Rounce = Rounce	Mass ton \$ Mass ton	What is the word "After" intended to mean? What is the word "After" intended to mean?
fuel use savings Therms/year/BBL (negative = increase in gas usage) CHP Protential savings S/BBL CHP Potential savings S/BBL CHP source savings potential RBtu/BBL CHP Potential savings MT CO2e/BBL After ESP Oil Savings Potential #4 to #2 (\$ per year) After ESP Oil Savings Potential #4 to #2 (MT CO2 per year) After ESP Oil Savings Potential #4 to gas (\$ per year) After ESP Oil Savings Potential #4 to gas (MT CO2 per year) After ESP Oil Savings Potential #4 to gas (MT CO2 per year) After ESP Oil Savings Potential #4 to gas (\$ per year) After ESP Oil Savings Potential #2 to gas (\$ per year)	Estimated Annual Fuel oil no 4 Fuel oil no 2 Emissions Savings Estimated Annual Fuel oil no 4 Natural Gas Cost Savings Estimated Annual Fuel oil no 4 Natural Gas Emissions Savings Estimated Annual Fuel oil no 2 Natural Gas Cost Savings	Interval Frequency = "Annual" Resource = "Fuel oil no 4" Resource = "Fuel oil no 2" Cost Savings = [value] Derivation Method = "Estimated" Interval Frequency = "Annual" Resource = "Fuel oil no 2" Emissions Savings = [value] Unit Of Measure = "Mass ton" Derivation Method = "Estimated" Interval Frequency = "Annual" Resource = "Fuel oil no 4" Resource = "Fuel oil no 4" Resource = "Fuel oil no 4" Resource = "Satural gas" Cost Savings = [value] Derivation Method = "Estimated" Interval Frequency = "Annual" Resource = "Fuel oil no 4" Resource = "Fuel oil no 2" Resource = "Rounce = Rounce	Mass ton \$ Mass ton	

CO2 per year)
After ESP Oil Savings Potential #4 to gas (\$

After ESP		gs Pote	ntial #4	to gas (MT
After ESP per year)		gs Pote	ntial #2	to gas (\$
After ESP CO2 per		gs Pote	ential #2	to gas (МТ
Total Wa	ter Usage	gallon	s per SF		
Percentile	e Water L	Jse in T	WG Co	np Grou	ıp
20th %tile (gal/SF)	e value in	TWG V	Vater C	omp Gro	oup
Water Sa	vings Pot	ential (\$/year)		
2015 LL8	4 Water (Cost Es	timate (\$/year)	
Water Sa	vings Pot	ential t	o get to	20th	

Vater Savings Potential % of baseline

#8 WN Source EUI Not Available - Comm bldgs only, MF has other checks in place

#12 District Chilled Water Use

Interval Measure = "Total" Resource = "Water" Resource Value = [value] Total Water Resource Value Unit Of Measure = "gallons" gallons Is this 10th percentile or some other baseline? Benchmark Peer Group = "20th TWG Water Comp Group" 20th TWG Water Comp Group Benchmark Percentile Benchmark Percentile = [value] Percent Derivation Method = "Estimated" Interval Frequency = "Annual" Resource = "Water" Estimated Annual Water Cost Savings Cost Savings = [value] \$ Derivation Method = "Estimated" Interval Frequency = "Annual" Resource = "Water" Estimated Annual Water Resource Cost Resource Cost = [value] NO MAPPING Derivation Method = "Estimated" Interval Frequency = "Annual" Resource = "Water" Estimated Annual Water Percent Improvement Percent Improvement = [value] Percent Improvement or Percent of Baseline? NO MAPPING Resource = "District chilled water" Annual? Unit of Measure? District Chilled Water Resource Value Resource Value = [value]