Stationary Combustion - Calculation & Summary

ump to... Department Summary

Emissions by Department

Fuel and Energy Use by Department

Fuel Summary

Emissions by Fuel Type

Fuel and Energy Use by Type

Background Calculations

CO2 emissions by fuel type

CH₄ emissions by fuel type

N₂O emissions by fuel type

Activity data by department and fuel type CO₂ emissions by department and fuel type

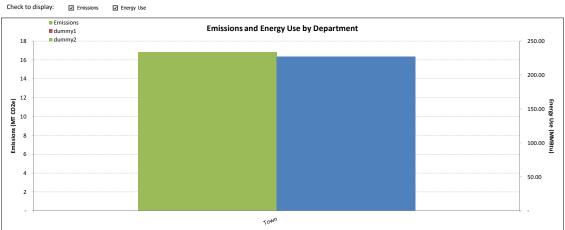
CH₄ emissions by department and fuel type

N₂O emissions by department and fuel type

Department Summary

Emissions by Department (MT CO ₂ e)											
Department	CO2	CH₄	N₂O	Total							
Town	17	0	0	17							
Total Stationary Combustion Emissions	17	0	0	17							

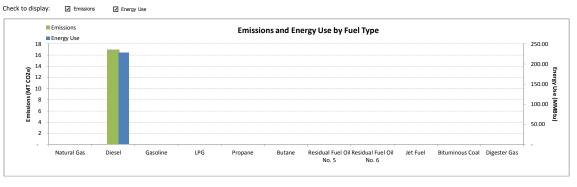
Fuel and Energy (MMBtu) Use by Department												
Department	mcf	gal	tons	Energy Use								
Town	-	1,649	-	228								
Total Stationary Combustion Energy Use	=	1,649	-	228								



Fuel Summary

Emissio	ns by Fuel Typ	pe (MT CO ₂	e)	
Fuel Type	CO2	CH ₄	N ₂ O	TOTAL
Natural Gas	-	-	-	-
Diesel	17	0	0	17
Gasoline	-	-	-	-
LPG	-	-	-	-
Propane	-	-	-	-
Butane	-	-	-	-
Residual Fuel Oil No. 5	-	-	-	-
Residual Fuel Oil No. 6	-	-	-	-
Jet Fuel	-	-	-	-
Bituminous Coal	-	-	-	-
Digester Gas	-	-	-	-
Total Emissions from				
Stationary Fuel Combustion	17	U	0	17

Fuel Type	Fuel Used	Fuel Used				
Natural Gas	0	mcf	-			
Diesel	1,649	gal	227.56			
Gasoline	0	gal	-			
LPG	0	gal	-			
Propane	0	gal	-			
Butane	0	gal	-			
Residual Fuel Oil No. 5	0	gal	-			
Residual Fuel Oil No. 6	0	gal	-			
Jet Fuel	0	gal	-			
Bituminous Coal	0	tons	-			
Digester Gas	0	mcf	-			
Total Stationary Fuel Cons	sumed		227.56			



Background Calculations

CO₂ Emissions by Fuel Type

CO ₂ Emissions = Fuel use × CO ₂ Emission Factor (kg CO ₂ /unit of fuel) × MT/kg

	Fuel Use	Unit	kg CO₂/unit	MT/kg	MT CO ₂	× GWP =	MT CO₂e
Natural Gas	0	mcf	54.50	0.001	0.00	1	-
Diesel	1649	gal	10.21	0.001	16.84	1	16.84
Gasoline	0	gal	8.78	0.001	0.00	1	-
LPG	0	gal	5.79	0.001	0.00	1	-
Propane	0	gal	5.59	0.001	0.00	1	-
Butane	0	gal	6.58	0.001	0.00	1	-
Residual Fuel Oil No. 5	0	gal	10.21	0.001	0.00	1	-
Residual Fuel Oil No. 6	0	gal	11.27	0.001	0.00	1	-
let Fuel	0	gal	9.75	0.001	0.00	1	-
Bituminous Coal	0	tons	2328.46	0.001	0.00	1	-
Digester Gas	0	mcf	43.79	0.001	0.00	1	-

CH₄ Emissions by Fuel Type

CH 4 Emissions = Fuel use × CH 4 Emission Factor (kg CH 4/unit of fuel) × MT/kg; CO 2 equivalent emissions = MT CH 4 × Global Warming Potential of CH 4

	Fuel Use	Unit	kg CH₄/unit	MT/kg	MT CH₄	× GWP =	MT CO₂e
Natural Gas	0	mcf	0.00514	0.001	0.00	25	=
Diesel	1649	gal	0.00150	0.001	0.00	25	0.06
Gasoline	0	gal	0.00140	0.001	0.00	25	-
LPG	0	gal	0.00100	0.001	0.00	25	-
Propane	0	gal	0.00100	0.001	0.00	25	-
Butane	0	gal	0.00110	0.001	0.00	25	-
Residual Fuel Oil No. 5	0	gal	0.00150	0.001	0.00	25	-
Residual Fuel Oil No. 6	0	gal	0.00170	0.001	0.00	25	-
Jet Fuel	0	gal	0.00149	0.001	0.00	25	-
Bituminous Coal	0	tons	0.27423	0.001	0.00	25	-
Digester Gas	0	mcf	0.00269	0.001	0.00	25	-

N₂O Emissions by Fuel Type
N₃O Emissions = Fuel use \times N₂O Emission Factor (kg N₂O/unit of fuel) \times MT/kg; CO₂ equivalent emissions = MT N₂O \times Global Warming Potential of N₂O

	Fuel Use	Unit	kg N₂O/unit	MT/kg	MT N₂O	× GWP =	MT CO₂e
Natural Gas	0	mcf	0.00010	0.001	0.00	298	-
Diesel	1649	gal	0.00010	0.001	0.00	298	0.05
Gasoline	0	gal	0.00010	0.001	0.00	298	-
LPG	0	gal	0.00010	0.001	0.00	298	-
Propane	0	gal	0.00010	0.001	0.00	298	-
Butane	0	gal	0.00010	0.001	0.00	298	-
Residual Fuel Oil No. 5	0	gal	0.00010	0.001	0.00	298	-
Residual Fuel Oil No. 6	0	gal	0.00010	0.001	0.00	298	-
Jet Fuel	0	gal	0.00008	0.001	0.00	298	-
Bituminous Coal	0	tons	0.03989	0.001	0.00	298	-
Digester Gas	0	mcf	0.00053	0.001	0.00	298	-

Fuel use data by department and fuel type. Units: Natural Gas and Digester Gas (mcf), Bituminous Coal (short tons), all other (gallons)

		Natural Gas	Diesel	Gasoline	LPG	Propane	Butane	Residual Fuel Oil No. 5	Residual Fuel Oil No. 6	Jet Fuel	Bituminous Coal	Digester Gas	Gas Products (mcf)	Petroleum Products (gal)	Coal (tons)
•	Town	0	1649	0	0	0	0	0	0	0	0	0	0	1649	0
F	Total	0	1649	0	0	0	0	0	0	0	0	0	0		

missions by Department and Fuel Type (MT CO₂e)

 	4 /	,9	4							
CO ₂	Natural Gas	Diesel	Gasoline	LPG	Propane	Butane	Residual Fuel Oil No. 5	Residual Fuel Jet Fuel	Bituminous Cc Digester Gas	TOTAL
Town	-	16.84		-	-	-	-			16.84
Total	-	16.84		-	-	-	-			16.84

Emissions = Omis of rue consumed x kg cm ₄ / unit x wifkg x GWP cm ₄													
	CH ₄	Natural Gas	Diesel	Gasoline	LPG	Propane	Butane	Residual Fuel Oil No. 5	Residual Fuel Jet Fuel	Bitu	minous Cc Digester	Gas	TOTAL
	Town	-	0.00	-		-	-	-		-	-		0.00
	Total	-	0.00	-		-	-	-		-	-		0.00

 N_2O Emissions = Units of Fuel Consumed \times kg N $_2$ O / unit \times MT/kg \times GWP N $_2$ O

N ₂ O	Natural Gas	Diesel	Gasoline	LPG	Propane	Butane	Residual Fuel Oil No. 5	Residual Fuel Jet Fuel	Bit	tuminous Cc Digester Gas	TOTAL
Town	-	0.00	-	-		-	-		-		0.00
Total	i	0.00	-	-		•	÷		=		0.00

Energy Use by Department and Fuel Type

Energy Consumed (MMbtu) = Units of Fuel Consumed × Heat Content of Fuel (MMBtu/unit)

	Natural Gas	Diesel	Gasoline	LPG	Propane	Butane	Residual Fuel Oil No. 5	Residual Fuel Jet Fuel	В	ituminous Cc Digester Gas	TOTAL
Town	-	227.56	-	-	-	-			-		227.56
Total	1	227.56	-	-	-	-			-		227.56

