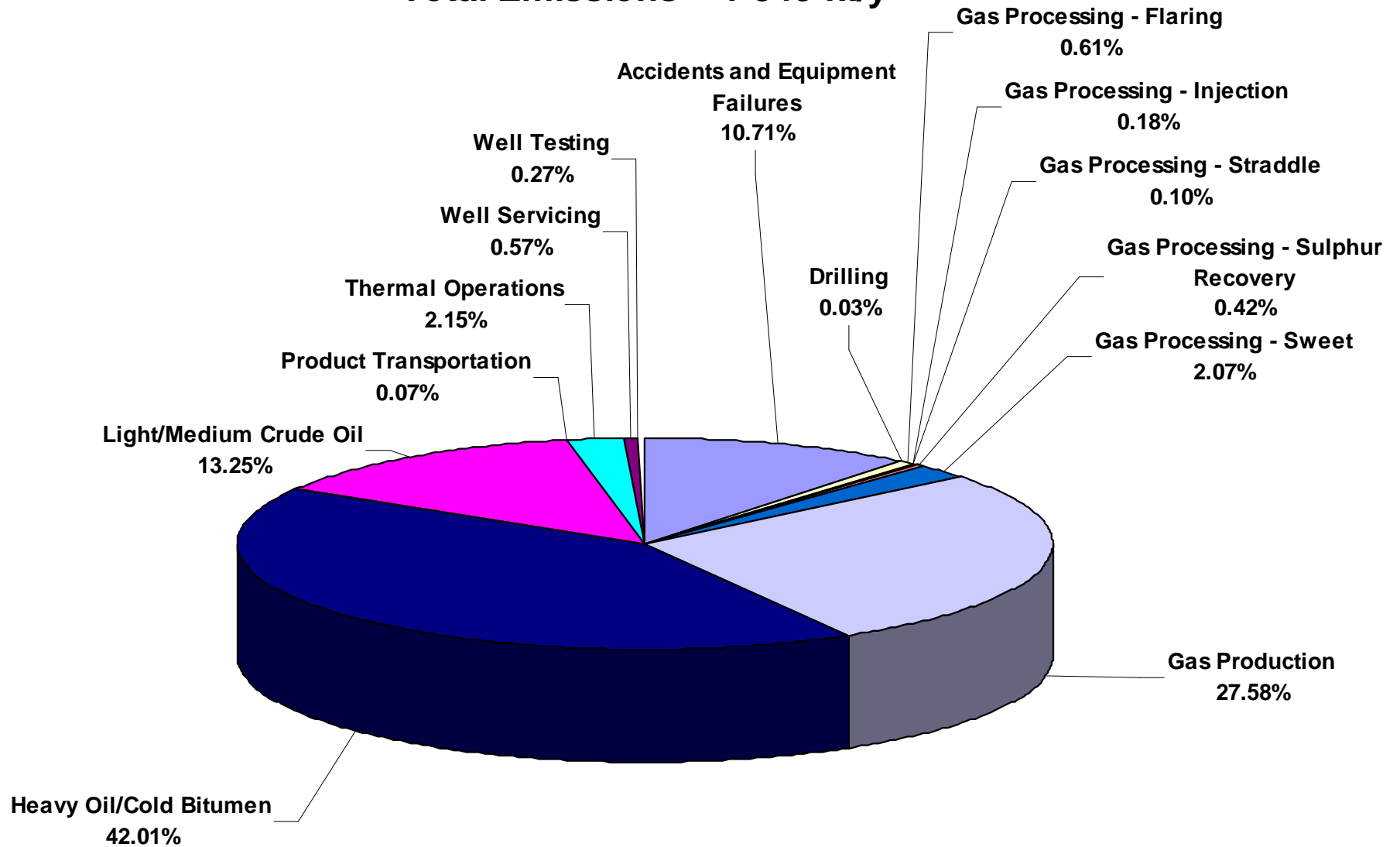


Canada's CH₄ & GHG Emissions by the UOG Industry



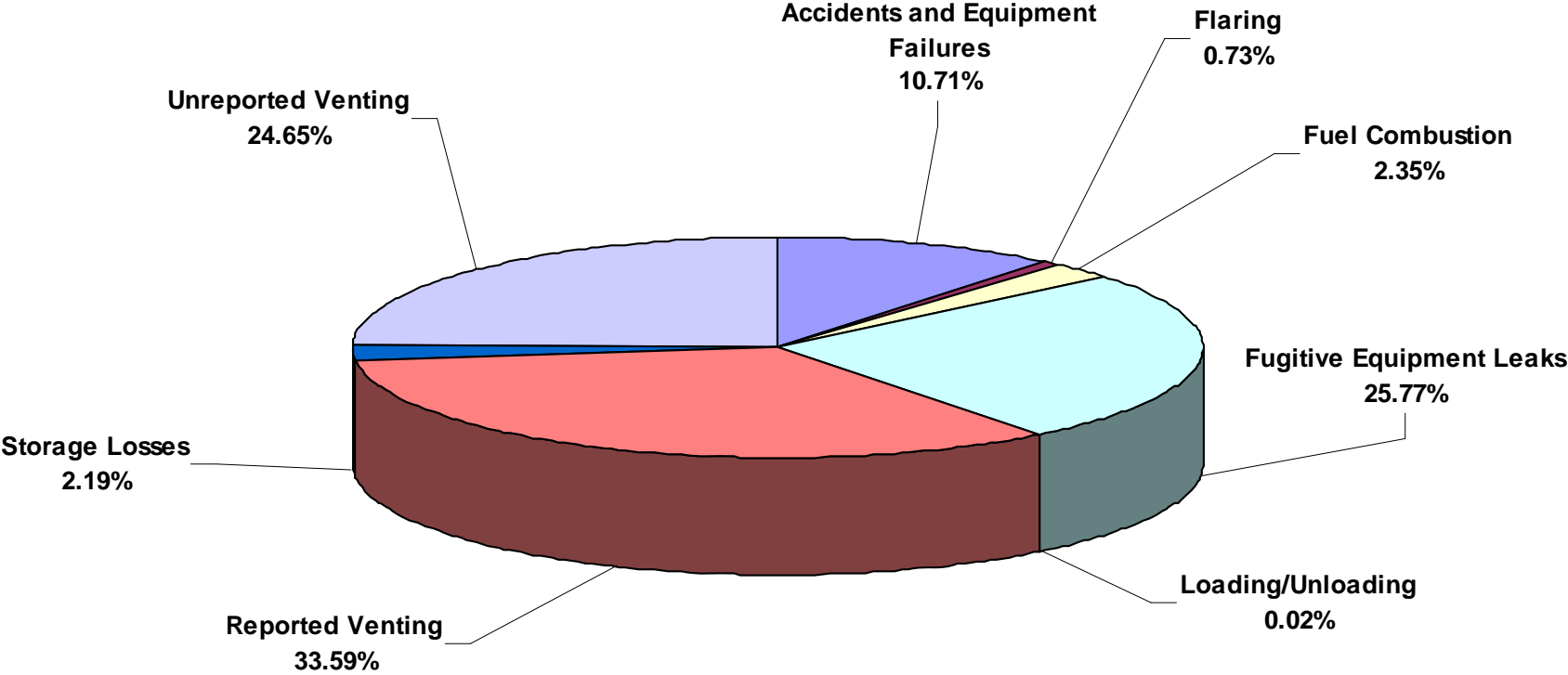
Methane Emissions Presented by Sector

Total Emissions = 1 849 kt/y



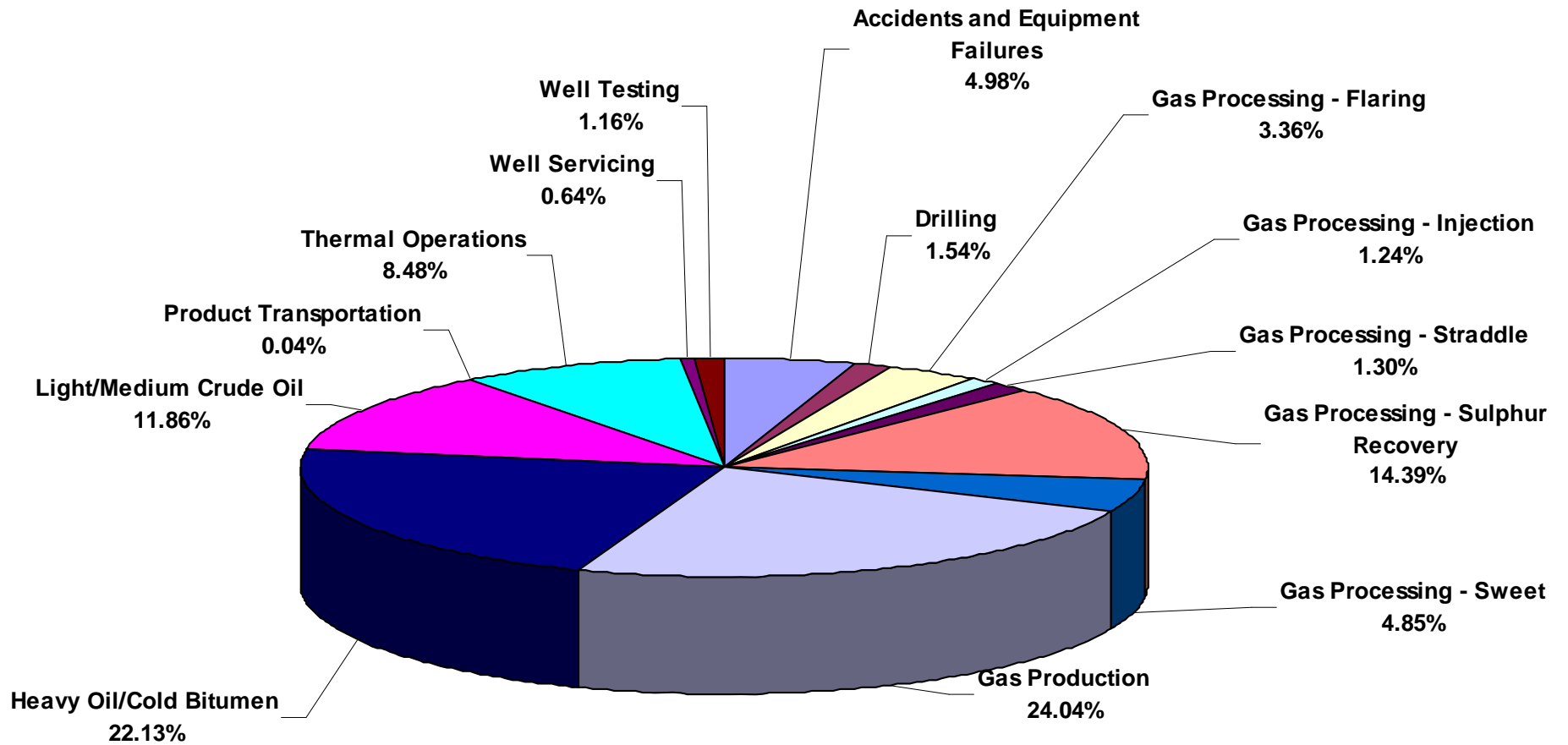
Methane Emissions Presented by Source Category

Total Emissions = 1 849 kt/y



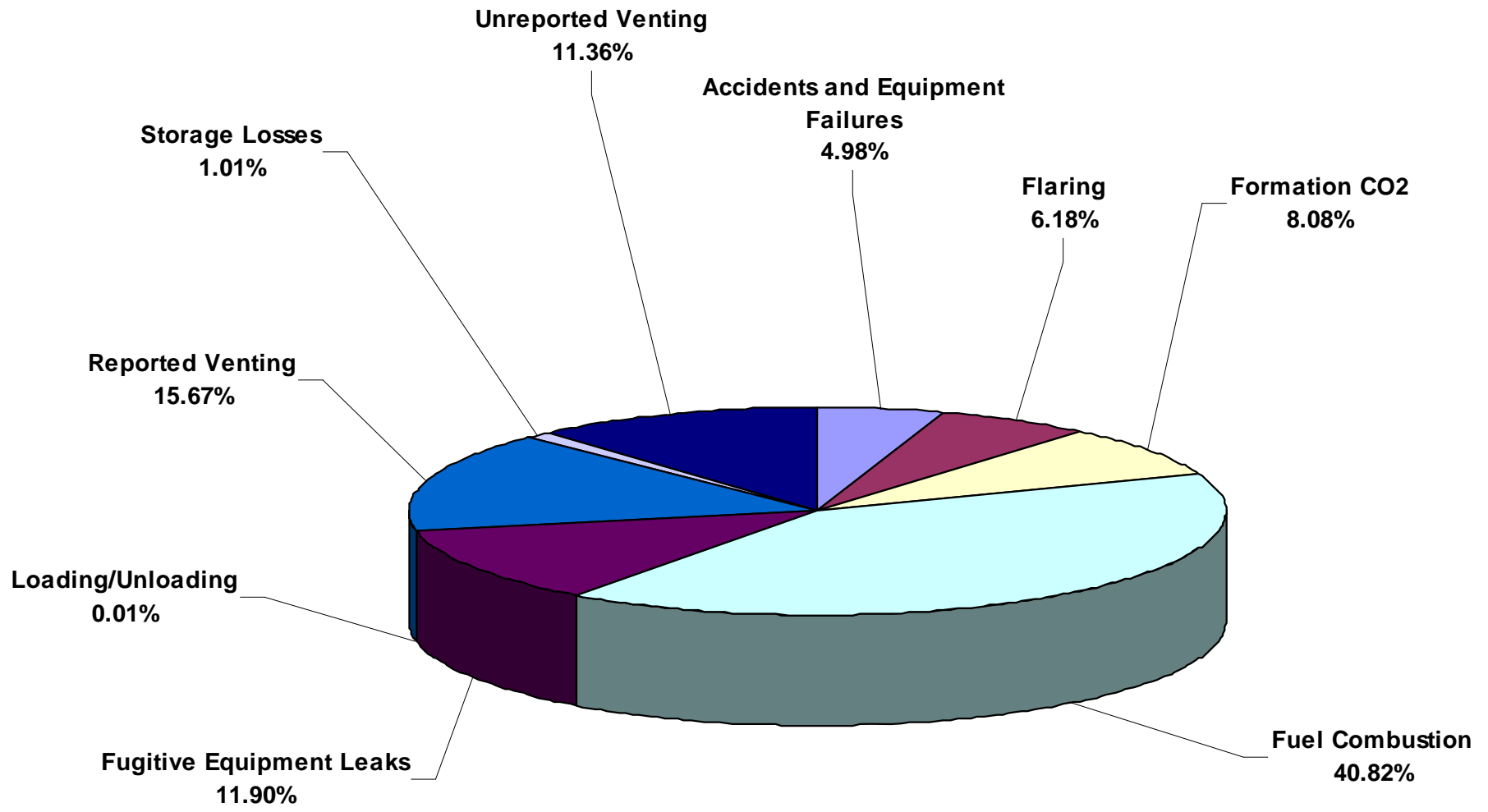
Carbon Dioxide Equivalent Emissions Presented by Sector

Total Emissions = 84 355 kt/y



Carbon Dioxide Equivalent Emissions Presented by Source Category

Total Emissions = 84 355 kt/y



CANADA – GAS TRANSMISSION, STORAGE & DISTRIBUTION				
	CH₄ (tonnes)	CO₂ (tonnes)	N₂O (tonnes)	CO₂eq (tonnes)
TRANSMISSION				
Fugitive	81,161	147	-	1,704,529
Vented	53,771	528	-	1,129,720
Combustion	2,857	10,947,009	691	11,221,197
TOTAL	137,790	10,947,684	691	14,055,445
TRANS-STRGE				
Fugitive	3,082	15	-	64,736
Vented	604	1	-	12,689
Combustion	26	34,625	2	35,741
TOTAL	3,712	34,641	2	113,166
LNG FACILITIES				
Fugitive	311	1	-	6,522
Vented	141	1	-	2,962
Combustion	5	5,646	1	5,912
TOTAL	457	5,648	1	15,396
DISTRIBUTION				
Fugitive	46,931	2,384	-	987,930
Vented	4,568	74	-	96,006
Combustion	7	80,697	2	81,442
TOTAL	51,506	83,156	2	1,165,379

Summary of emission intensity factors presented by sub-sector of the UOG sector for 2000.

Activity	Denominator Used	Emission Intensity Factor (t/quantity)					
		CO ₂	CH ₄	N ₂ O	CO ₂ E	CO ₂ O	NMVOC
Well Drilling	Wells Drilled	61.1	0.023	0.0055	63.3	0.053	0.076
Well Servicing	Wells Drilled	15.0	0.51	0.0018	26.3	----	0.11
Well Testing	Wells Drilled	42.7	0.24	----	47.7	0.68	0.056
Light/Medium Crude Oil Production	Light/Medium Oil Produced (10 ³ m ³)	86.3	4.41	0.0038	180.0	26.6	4.94
Heavy Crude Oil Cold Production	Primary/Secondary Heavy Oil + Cold Bitumen Produced (10 ³ m ³)	75.0	25.1	0.0033	603.6	85.9	5.70
Heavy Crude Oil Thermal Production	Thermal Bitumen Produced (10 ³ m ³)	594.2	3.75	0.0090	675.8	13.5	1.15
Natural Gas Production	Natural Gas Produced (10 ⁶ m ³)	42.7	2.34	0.0040	93.2	7.83	0.59
Natural Gas Processing	Natural Gas Produced (10 ⁶ m ³)	90.4	0.29	0.0032	97.4	0.87	0.14
Petroleum Liquids Transportation	Light/Medium + Heavy + Bitumen Produced (10 ³ m ³)	0.092	0.013	----	0.36	0.41	0.13
Accidents/Equipment Failures	All Natural Gas and Oil Produced (10 ³ m ³ OE)	0.12	0.63	----	13.5	3.24	0.48

Source	% of Total CO₂E Uncertainty	% of Total THC Uncertainty
Fugitive Equipment Leaks	61.2	82.2
Fuel Combustion	23.4	0.0
Reported Venting	13.9	16.5
Formation CO ₂	0.8	0.0
Flaring	0.5	0.0
Unreported Venting	0.2	1.3
TOTAL:	100.0	100.0