

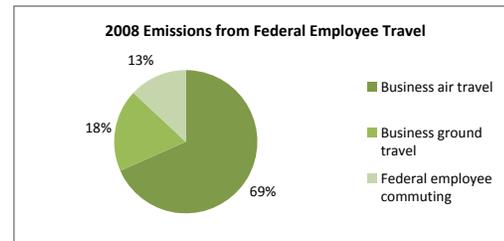
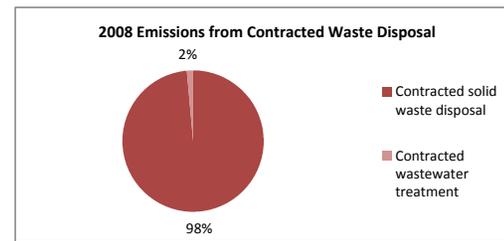
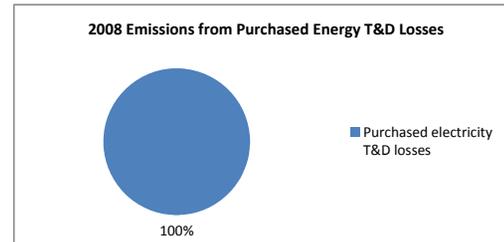
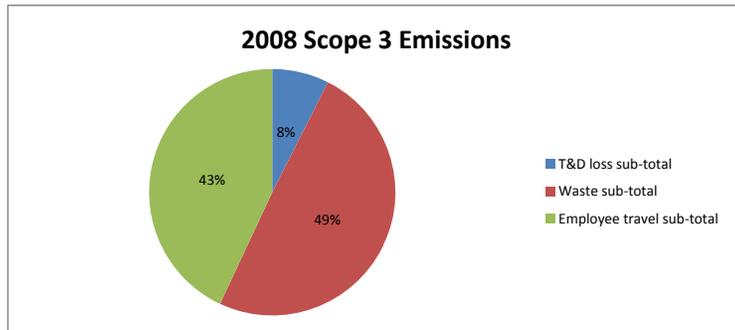
Court Services & Offender Supervision Agency Summary: Scope 3 Emissions Reduction Target

		Automatic calculations				(Optional manual entries)													
		Estimated 2008 emissions (mtCO2e)	Reduction target (%)	(Optional manual entry) Alternative reduction target chosen by agency (%)	Estimated 2020 emissions (mtCO2e)	Manual entry of emissions distribution (%)	Reduction target (%)												
Transmission and distribution (T&D) losses from purchased energy	Purchased electricity T&D losses	73.588	20.0%		58.871														
	T&D loss sub-total	73.588	20.0%		58.871	0.0%	#DIV/0!												
Contracted waste disposal	Contracted solid waste disposal	471.979	30.0%		330.385														
	Contracted wastewater treatment	7.251	0.0%		7.251														
	Waste sub-total	479.230	29.5%		337.636	0.0%	#DIV/0!												
Federal employee travel	Business air travel	285.000	10.0%		256.500														
	Business ground travel	77.000	10.0%		69.300														
	Federal employee commuting	54.994	20.0%		43.996														
	Employee travel sub-total	416.994	11.3%		369.796	0.0%	#DIV/0!												
Agency total		969.812	21.0%		766.302	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Manual entry of emissions distribution among the three categories (%)</th> <th rowspan="4" style="text-align: center; vertical-align: middle;">#DIV/0!</th> </tr> <tr> <td>T&D losses</td> <td></td> </tr> <tr> <td>Waste</td> <td></td> </tr> <tr> <td>Employee travel</td> <td></td> </tr> <tr> <td style="text-align: right;">Total</td> <td style="text-align: center;">0.0%</td> <td></td> </tr> </table>		Manual entry of emissions distribution among the three categories (%)		#DIV/0!	T&D losses		Waste		Employee travel		Total	0.0%	
Manual entry of emissions distribution among the three categories (%)		#DIV/0!																	
T&D losses																			
Waste																			
Employee travel																			
Total	0.0%																		

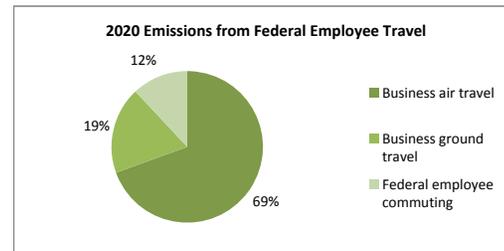
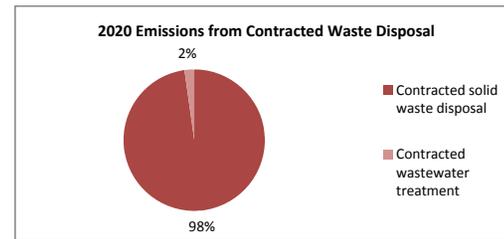
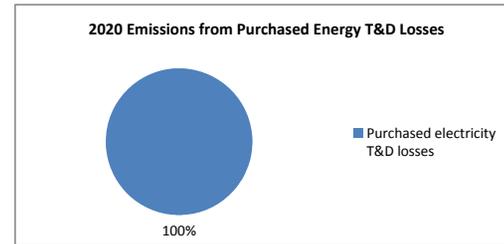
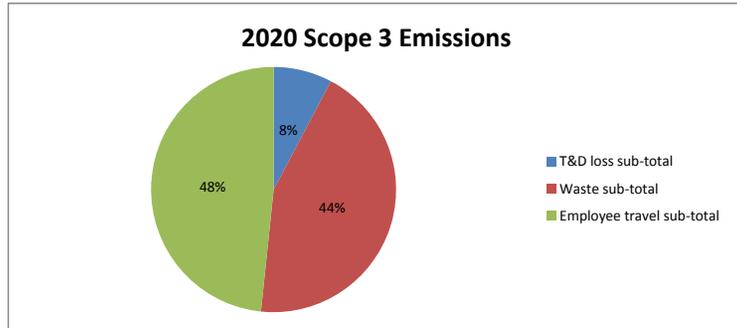
Revised March 30, 2010

The content of this scope 3 target tool is deliberative, pre-decisional communication. It is not Administration policy. Do not release

Agency Name
2008 Estimated Distribution of Scope 3 Emissions



Agency Name
2020 Estimated Distribution of Scope 3 Emissions



Purchased electricity transmission and distribution (T&D) losses

Agency annual purchased electricity consumption from off-site sources (MWh)	National average electricity transmission and distribution (T&D) loss (%)	Electricity lost through T&D (MWh)	Emission factors for individual greenhouse gases		T&D emissions from individual greenhouse gases (metric tons of each gas)	Agency total CO2-equivalent emissions from electricity T&D losses (mtCO2e)
1,746	6.5%	121.405	Carbon dioxide (CO2) (lb/MWh)	1,329.35	73.205	73.588
			Methane (CH4) (lb/GWh)	27.27	0.002	
			Nitrous oxide (N2O) (lb/GWh)	20.60	0.001	

Business air travel by Federal employees

Agency annual emissions from air travel (emissions data generated directly by GSA Travel Management Information System) (mtCO ₂ e)
285.000

Business ground travel by Federal employees

Rental vehicle travel					Non-rental vehicle travel						Total ground travel emissions (mtCO2e)	
Type of fuel for rental vehicles	Fuel for rental vehicles (gallons)	Emission factor (kg CO2 / gal)	Annual emissions for each fuel type (mtCO2e)	Annual emissions for rental vehicle business ground travel (mtCO2e)	Mode of transportation	Distance traveled (miles)	CO2 emissions factor (kg CO2 / mile)	CH4 emissions factor (kg CH4 / mile)	N2O emissions factor (kg N2O / mile)	Annual emissions for each non-rental mode of transportation (mtCO2e)	Annual emissions for non-rental vehicle business ground travel (mtCO2e)	77.000
Gasoline	-	8.81	77.000	77.000	Personal vehicle used for business travel	-	0.364	0.000031	0.000032	-	-	
Diesel	-	10.15	-	-	Bus	-	0.107	0.000006	0.000005	-	-	
					Transit rail (e.g., subways and trams)	-	0.163	0.000004	0.000002	-	-	
					Commuter rail	-	0.172	0.000002	0.000001	-	-	
					Intercity rail (e.g., Amtrak)	-	0.185	0.000002	0.000001	-	-	

Federal employee commuting

Mode of transportation	Commute distance traveled (miles)	Number of commute days per year	Emission factors			Annual emissions for each mode of transportation (mtCO2e)	Total annual emissions from employee commuting (mtCO2e)
			CO2 emissions factor (kg CO2 / mile)	CH4 emissions factor (kg CH4 / mile)	N2O emissions factor (kg N2O / mile)		
Car	370	252	0.364	0.000031	0.000032	35	55
Light-duty truck	-	-	0.519	0.000036	0.000047	-	
Motorcycle	-	-	0.167	0.000070	0.000007	-	
Bus	-	-	0.107	0.000006	0.000005	-	
Transit rail (e.g., subways and trams)	397	252	0.163	0.000004	0.000002	16	
Commuter rail	85	252	0.172	0.000002	0.000001	4	
Intercity rail (e.g., Amtrak)	-	-	0.185	0.000002	0.000001	-	
Walk / bike	-	-	0	0	0	-	

Contracted solid waste disposal

Mass of municipal solid waste disposed at off-site landfills (lbs)	Mass of waste converted to gigagrams (Gg)	Methane correction factor	Degradable organic carbon (Gg C / Gg waste)	Fraction of degradable organic carbon simulated	Fraction of methane by volume in generated landfill gas	Molecular weight ratio of CH ₄ to C	Percentage of methane recovered and combusted (%)	Percentage of methane oxidized (%)	Methane emissions (Gg)	Methane global warming potential (GWP)	Carbon dioxide equivalent emissions (mtCO ₂ e)
1,495,620	0.678402	1	0.203	0.5	0.5	1.333	45.6%	10%	0.022475	21	471.979

Contracted wastewater treatment

Methane emissions from wastewater treatment															
Number of Federal employees	Number of excluded employees	Number of wastewater-subject employees			kg BOD / employee / day	workdays / year	Fraction of BOD allocated to workplace	Total BOD produced and allocated to workplace (kg)	Percentage of systems with primary treatment (%)	Percentage of BOD removed in primary treatment (%)	Methane correction factor	Methane-producing capacity of wastewater (kg CH ₄ / kg BOD)	Methane global warming potential (GWP)	Agency methane emissions from wastewater treatment (mCO ₂ e)	
852	0	852			0.09	230	0.5	8,818	82.2%	32.5%	0.036	0.6	21	2,219	
Nitrous oxide emissions from effluent discharge															
			kg N / employee / day	Nitrogen uptake (kg N / kg BOD)	kg BOD / employee / day	workdays / year	Fraction of N allocated to workplace	Total N produced and allocated to workplace (kg)	Percentage of systems with nitrification/denitrification (%)	Fraction of nitrogen removed for systems with nitrification/denitrification	Molecular weight ratio of N ₂ O to N ₂	Effluent emission factor (kg N ₂ O-N / kg sewage-N produced)	Nitrous oxide global warming potential (GWP)	Agency nitrous oxide emissions from effluent discharge (mCO ₂ e)	
			0.026	0.05	0.09	230	0.5	2,107	36.5%	0.7	1.571	0.005	310	3,820	
Nitrous oxide emissions from systems with nitrification/denitrification															
									Percentage of systems with nitrification/denitrification (%)				Emission factor (g N ₂ O / employee / year)	Nitrous oxide global warming potential (GWP)	Agency nitrous oxide emissions from systems with nitrification/denitrification (mCO ₂ e)
									36.5%				7.0	310	0,675
Nitrous oxide emissions from systems without nitrification/denitrification															
									Percentage of systems with nitrification/denitrification (%)				Emission factor (g N ₂ O / employee / year)	Nitrous oxide global warming potential (GWP)	Agency nitrous oxide emissions from systems without nitrification/denitrification (mCO ₂ e)
									63.5%				3.2	310	0,537
Total emissions															
Total agency emissions from wastewater treatment (mCO ₂ e)															
7,251															