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Emissions of Greenhouse Gases in the United States 2009

Table 3. Distribution of total U.S. greenhouse gas emissions by end-use sector, 2009 (million metric tons carbon dioxide equivalent)

Greenhouse gas and source	Sector						
	Residential	Commercial	Industrial	Transportation	Tota		
Carbon dioxide							
Energy-related (adjusted)	1,172.3	1,012.3	1,417.7	1,757.3	5,359.6		
Industrial processes	-	, 5	87.3	(-)	87.3		
Carbon dioxide subtotal	1,172.3	1,012.3	1,505.0	1,757.3	5,446.8		
Methane							
Energy							
Coal mining	-	-	86.0	=	86.0		
Natural gas systems	===	-	183.0	(==)	183.0		
Petroleum systems	-	, .)	23.5	1-1	23.5		
Stationary combustion	4.4	1.0	1.6	-	7.1		
Stationary combustion: electricity	0.3	0.3	0.2	-	8.0		
Mobile sources	_			2.7	2.7		
Waste management							
Landfills	<u></u>	179.7	-	-	179.7		
Domestic wastewater treatment	-	17.8	. 	_	17.8		
Industrial wastewater treatment	-	 :	10.4	1-0	10.4		
Industrial processes	_		4.2	-	4.2		
Agriculture							
Enteric fermentation	_	_	144.9	_	144.9		
Animal waste	10000		58.3	_	58.3		
Rice cultivation	_	=	11.2	_	11.2		
Crop residue burning	_	_	1.4		1.4		
Methane subtotal	4.7	198.8	524.7	2.7	730.9		
Nitrous oxide							
Agriculture							
Nitrogen fertilization of soils	322	_	139.6	-	139.6		
Solid waste of animals	===	<u></u>	20.8	_	20.8		
Crop residue burning	-	-	0.6	-	0.6		
Energy							
Mobile combustion			-	28.8	28.8		
Stationary combustion	0.9	0.3	3.7	-	5.0		
Stationary combustion: electricity	3.3	3.2	2.2	_	8.7		
Industrial processes	<u></u>	<u> </u>	10.8	_	10.8		
Waste management							
Human sewage in wastewater		4.8		_	4.8		
Waste combustion	-	-	-	-	0.0		
Waste combustion: electricity	0.2	0.2	0.1	-	0.4		
Nitrous oxide subtotal	4.4	8.4	177.9	28.9	219.6		

Table 3. Distribution of total U.S. greenhouse gas emissions by end-use sector, 2009 (continued) (million metric tons carbon dioxide equivalent)

Greenhouse gas and source	Sector					
	Residential	Commercial	Industrial	Transportation	Total	
Hydrofluorocarbons (HFCs)						
HFC-23	_	_	17.6	_	17.6	
HFC-32	_	1.7	_	_	1.7	
HFC-125	(27.2	(A)	1-1	27.2	
HFC-134a	-	ş. —	ş. -	72.4	72.4	
HFC-143a	-	25.9	1-1	12	25.9	
HFC-236fa		1.4	10-	1-1	1.4	
HFCs subtotal	0.0	56.3	17.6	72.4	146.3	
Perfluorocarbons (PFCs)						
CF ₄		_	4.0	-	4.0	
C ₂ F ₆		ş—-	4.1	-	4.1	
NF ₃ , C ₃ F ₈ , and C ₄ F ₈	-	<u> </u>	0.5	_	0.5	
PFCs subtotal	0.0	0.0	8.6	0.0	8.6	
Other HFCs, PFCs/PFPEs	_	7.9	1-	-	7.9	
Sulfur hexafluoride (SF ₆)						
Electric applications	4.8	4.5	3.2		12.4	
Other sources	i — i	_	2.9	_	2.9	
SF ₆ subtotal	4.8	4.9	6.1	0.0	15.4	
Total greenhouse gas emissions	1,186.2	1,288.3	2,239.9	1,861.2	6,575.5	