

Table 4-1. Per Unit Cost Breakdown by Monitoring Category: Stationary Combustion (2006\$)

Scenario	Description	Tier	Total	Annualized First-time Costs			Annual O&M Costs		
				Labor Costs	Equipment Purchase Costs and Other ODCs	Total	Labor Costs	Other Direct Costs	Total
CEMS-Add CO ₂ analyzer and flow meter	Applies to non-Part 75, non-EGU (industrial) units where O ₂ analyzers will not suffice, e.g., sources with process emissions (cement, lime, glass).	4	\$56,040	\$24,770	\$6,024	\$30,793	\$20,629	\$4,618	\$25,247
CEMS-Add CO ₂ analyzer only	Applies to non-Part 75, non-EGU (industrial) combustion units and cogens that have a flow monitor and NO _x or SO ₂ analyzer	4	\$20,593	\$7,421	\$1,033	\$8,454	\$9,556	\$2,583	\$12,139
CEMS-Add flow monitor only	Applies to non-Part 75, non-EGU (industrial) combustion units and cogens that have a CO ₂ or O ₂ analyzer, consistent fuel and no process emissions. We are assuming that 90% of solid fossil fueled >250 mmBtu units have Part 60 analyzers.	4	\$24,511	\$6,421	\$4,199	\$10,620	\$11,342	\$2,549	\$13,891
CEMS part 75 Appendix G (non-ARP): add CO ₂ data stream	Part 75 Appendix G oil and gas fired units that will use default factors to calculate emissions. Coal-fired units are assumed to have O ₂ or CO ₂ diluent in which case they will add the CO ₂ data stream to their DAS.	4	\$2,500	\$0	\$0	\$0	\$2,500	\$0	\$2,500
CEMS part 75 ARP units—report annual CO ₂ , methane and nitrous oxide	ARP units already report CO ₂ so the only change here is for the annual report.	4	\$1,000	\$0	\$0	\$0	\$1,000	\$0	\$1,000
Daily fuel sampling	Continuously measuring fuel use and daily sampling of fuel characteristics for combustion emissions, e.g., refinery, petrochem where process control is in place.	3	\$20,466	\$2,770	\$364	\$3,134	\$15,284	\$2,049	\$17,333

(continued)

Table 4-1. Per Unit Cost Breakdown by Monitoring Category: Stationary Combustion (2006\$) (continued)

Scenario	Description	Tier	Total	Annualized First-time Costs			Annual O&M Costs		
				Labor Costs	Equipment Purchase Costs and Other ODCs	Total	Labor Costs	Other Direct Costs	Total
Monthly fuel sampling	Continuously measuring fuel use and monthly sampling of fuel characteristics for combustion emissions is sufficient.	3	\$4,613	\$1,886	\$0	\$1,886	\$1,767	\$960	\$2,727
Periodic in-stack gas sampling	Cost for site-specific EFs by periodically sampling in-stack flue gas for process or combustion emissions (or both).	3	\$12,322	\$4,234	\$0	\$4,234	\$7,729	\$360	\$8,089
Periodic off-site flue gas analysis	Cost for site-specific EFs by periodically sampling flue gas for process or combustion emissions (or both). Analysis is off-site.	3	\$5,301	\$2,174	\$0	\$2,174	\$978	\$2,148	\$3,126