

TABLE A1
TABLE 1: 2018 CUSTOMER-RELATED VOLUMES, EMISSIONS, COST OF EMISSIONS AND UNIT RATE

Line	Rate	Budget Forecast Volumes ¹ (10 ³ m ³)	LFE, Customer Abatement, Capped Participants and Other Exempt Gas Volumes ² (10 ³ m ³)	Net Volumes ³ (10 ³ m ³)	Net CO ₂ e Emissions ⁴ (Tonnes CO ₂ e)	Assumed Cost of Allowances ⁵ (\$/tonne CO ₂ e)	Cost of CO ₂ e Emissions ⁶ (\$)	Unit Rate ⁷ (€/m ³)
1.1	1	4,760,546.5	5,922.6	4,754,623.9	8,913,146.3	18.99	169,260,649.0	
1.2	6	4,829,792.7	156,649.9	4,673,142.8	8,760,399.7	18.99	166,359,989.7	
1.3	9	0.0	0.0	0.0	0.0	18.99	0.0	
1.4	100	0.0	0.0	0.0	0.0	18.99	0.0	
1.5	110	789,035.8	367,138.0	421,897.8	790,901.0	18.99	15,019,210.1	
1.6	115	542,831.4	410,350.3	132,481.1	248,352.6	18.99	4,716,216.8	
1.7a	125	319,562.5	0.0	319,562.5	599,060.5	18.99	11,376,158.7	
1.7b	125 ⁸	124,896.5	0.0	124,896.5	234,134.4	18.99	4,446,211.3	
1.8	135	64,501.3	0.0	64,501.3	120,915.9	18.99	2,296,192.5	
1.9	145	50,136.2	3,670.7	46,465.5	87,105.5	18.99	1,654,133.1	
1.10	170	291,152.3	237,627.7	53,524.6	100,338.7	18.99	1,905,431.2	
1.11	200	169,764.4	169,764.4	0.0	0.0	18.99	0.0	
1.12	300	518.6	0.0	518.6	972.2	18.99	18,461.7	
1	Total Customer-Related	11,942,738.2	1,351,123.6	10,591,614.6	19,855,326.7	18.99	377,052,654.1	3.5599

Notes:

- (1) Exhibit B, Tab 2, Schedule 1, Table 1, Col. 1 - Col. 2
- (2) Exhibit B, Tab 2, Schedule 1, Table 1, Col. 3 + Col. 5 + Col. 6
- (3) Col. 1 - Col. 2
- (4) Exhibit B, Tab 3, Schedule 1, Table 1, Col. 5
- (5) The carbon proxy price for rate setting purposes was based on the California Carbon Allowance ICE 21 day strip price for delivery from September 1 through to September 29, 2017.
- (6) Col. 4 x Col. 5
- (7) (Col. 6 / (Col. 3 x 1000)) x 100
- (8) Dedicated unbundled customers

Customer-Related Unit Rate Calculation

Cap and Trade Customer Related Charge = Cost of CO₂e Emissions / Net Volumes
 = \$ 377,052,654.1 / 10,591,614.6 10³m³
 = 3.5599 €/m³

TABLE A2

TABLE 2: 2018 FACILITY-RELATED VOLUMES, EMISSIONS, COST OF EMISSIONS AND UNIT RATES

Line	Col. 1	Col. 2	Col. 3	Col. 4	Col. 5
	Volumes ¹ (10 ³ m ³)	CO ₂ e Emissions ² (Tonnes CO ₂ e)	Assumed Cost of Allowances ³ (\$/tonne CO ₂ e)	Cost of CO ₂ e Emissions ⁴ (\$)	Unit Rate (€/m ³)
2.1 Company Use					
2.1.1 Fleet	1,147.2	2,150.6	18.99	40,839.4	
2.1.2 Buildings	1,388.8	2,603.5	18.99	49,440.1	
2.1.3 Boilers	4,078.8	7,909.9	18.99	150,209.5	
2.1 Company Use	6,614.8	12,664.0	18.99	240,489.0	0.0016 ⁵
2.2 Unaccounted For Gas (UAF)	106,077.0	198,854.8	18.99	3,776,252.8	0.0320 ⁶
2.3 Compressor Fuel	15,957.3	30,945.5	18.99	587,655.9	0.0050 ⁷
2 Total Facility-Related	128,649.1	242,464.3	18.99	4,604,397.7	0.0386

Notes:

- (1) Exhibit B, Tab 2, Schedule 1, Table 2
- (2) Exhibit B, Tab 3, Schedule 1, Table 3, Col. 5
- (3) The carbon proxy price for rate setting purposes was based on the California Carbon Allowance ICE 21 day strip price for delivery in each month of 2018.
- (4) Col. 2 x Col. 3
- (5) Cost of CO₂e emissions / (Total customer-related volume + Rate 332 Volume) = [Col. 4 / ((Exhibit A1, Table 1, Line 1, Col. 1 + 2,850,078 10³ m³) x 1000)] x 100
- (6) Cost of CO₂e emissions / (Total customer-related volume - Rate 125D customers - landfill gas volume) = [Col. 4 / ((Exhibit A1, Table 1, Line 1, Col. 1 - Line 1.7b, Col. 1 - Line 1.12, Col. 2) x 1000)] x 100
- (7) Cost of CO₂e emissions / (Total customer-related volume excluding unbundled customers (Rates 125 and 300) + Rate 325 Volume) = [Col. 4 / ((Exhibit A1, Table 1, Line 1, Col. 1 - Line 1.7a, Col. 1 - Line 1.7b, Col. 1 - Line 1.12, Col. 1 + 190,328 10³ m³) x 1000)] x 100

Facility-Related Unit Rate Calculations

$$\begin{aligned}
 \text{Company Use} &= \text{Cost of CO}_2\text{e Emissions for Company Use} / (\text{Total Customer-Related Volume} + \text{Rate 332 Volume}) \\
 &= \$ 240,489.0 / (11,942,738.2 + 2,850,078) 10^3\text{m}^3 \\
 &= 0.0016 \text{ €/m}^3 \\
 \text{Unaccounted For Gas Volumes} &= \text{Cost of CO}_2\text{e Emissions for Unaccounted For Gas} / (\text{Total Customer-Related Volume Excluding Rate 125D and Landfill Gas}) \\
 &= \$ 3,776,252.8 / (11,942,738.2 - 124,896.5 - 0) 10^3\text{m}^3 \\
 &= 0.0320 \text{ €/m}^3 \\
 \text{Compressor Fuel Volumes} &= \text{Cost of CO}_2\text{e Emissions for Compressor Fuel} / (\text{Total Customer-Related Volume Excluding Unbundled Customers} + \text{Rate 325 Volume}) \\
 &= \$ 587,655.9 / (11,942,738.2 - 319,562.5 - 124,896.5 - 518.6 + 190,328.0) 10^3\text{m}^3 \\
 &= 0.0050 \text{ €/m}^3 \\
 \text{Facility-Related Charge} &= 0.0016 + 0.0320 + 0.0050 \text{ €/m}^3 \\
 &= 0.0386 \text{ €/m}^3
 \end{aligned}$$

TABLE A3

TABLE 3: 2018 CAP & TRADE UNIT RATE SUMMARY

Line	Col. 1	Unit Rate (¢/m ³)
1	Customer-Related	3.5599
Facility-Related:		
2.1	Company Use	0.0016
2.2	UAF	0.0320
2.3	Compressor Fuel	0.0050
2	Facility-Related	0.0386
3	Total	3.5985

Notes:

- (1) Exhibit A1, Table 1, Line 1, Col. 8
- (2) Exhibit A2, Table 2, Line 2.1, Col. 5
- (3) Exhibit A2, Table 2, Line 2.2, Col. 5
- (4) Exhibit A2, Table 2, Line 2.3, Col. 5
- (5) Line 2.1 + Line 2.2 + Line 2.3
- (6) Line 1 + Line 2

TABLE A4

TABLE 4: 2018 CAP AND TRADE UNIT RATE SUMMARY BY RATE CLASS

Rate Class	Non-Large Final Emitter (¢/m ³)	Large Final Emitter ¹ (¢/m ³)
Rate 1	3.5985	0.0386
Rate 6	3.5985	0.0386
Rate 9	3.5985	0.0386
Rate 100	3.5985	0.0386
Rate 110	3.5985	0.0386
Rate 115	3.5985	0.0386
Rate 125	3.5935	0.0336
Rate 125 Dedicated	3.5615	0.0016
Rate 135	3.5985	0.0386
Rate 145	3.5985	0.0386
Rate 170	3.5985	0.0386
Rate 200	0.0386	0.0386
Rate 300	3.5935	0.0336
Rate 300 Interruptible	3.5935	0.0336
Rate 315	0.0050	0.0050
Rate 316	0.0050	0.0050
Rate 320	0.0000	0.0000
Rate 325	0.0067	0.0067
Rate 330	0.0067	0.0067
Rate 331	0.0016	0.0016
Rate 332	0.0016	0.0016

(1) Includes Voluntary Participants and Other Exempt Gas Volumes

TABLE A5

TABLE 5: 2018 CAP AND TRADE UNIT RATE BREAKDOWN BY RATE CLASS

Rate Class		Non-Large Final Emitter (¢/m ³)	Large Final Emitter (¢/m ³)
Rate 1	Customer-Related	3.5599	
	Facility-Related:		
	Company Use	0.0016	0.0016
	UAF	0.0320	0.0320
	Compressor Fuel	0.0050	0.0050
	Facility-Related	<u>0.0386</u>	<u>0.0386</u>
	Total	3.5985	0.0386
Rate 6	Customer-Related	3.5599	
	Facility-Related:		
	Company Use	0.0016	0.0016
	UAF	0.0320	0.0320
	Compressor Fuel	0.0050	0.0050
	Facility-Related	<u>0.0386</u>	<u>0.0386</u>
	Total	3.5985	0.0386
Rate 9	Customer-Related	3.5599	
	Facility-Related:		
	Company Use	0.0016	0.0016
	UAF	0.0320	0.0320
	Compressor Fuel	0.0050	0.0050
	Facility-Related	<u>0.0386</u>	<u>0.0386</u>
	Total	3.5985	0.0386
Rate 100	Customer-Related	3.5599	
	Facility-Related:		
	Company Use	0.0016	0.0016
	UAF	0.0320	0.0320
	Compressor Fuel	0.0050	0.0050
	Facility-Related	<u>0.0386</u>	<u>0.0386</u>
	Total	3.5985	0.0386

Rate Class		Non-Large Final Emitter (¢/m ³)	Large Final Emitter (¢/m ³)
Rate 110	Customer-Related	3.5599	
	Facility-Related:		
	Company Use	0.0016	0.0016
	UAF	0.0320	0.0320
	Compressor Fuel	0.0050	0.0050
	Facility-Related	<u>0.0386</u>	<u>0.0386</u>
	Total	3.5985	0.0386
Rate 115	Customer-Related	3.5599	
	Facility-Related:		
	Company Use	0.0016	0.0016
	UAF	0.0320	0.0320
	Compressor Fuel	0.0050	0.0050
	Facility-Related	<u>0.0386</u>	<u>0.0386</u>
	Total	3.5985	0.0386
Rate 125	Customer-Related	3.5599	
	Facility-Related:		
	Company Use	0.0016	0.0016
	UAF	0.0320	0.0320
	Compressor Fuel	0.0050	0.0050
	Facility-Related	<u>0.0336</u>	<u>0.0336</u>
	Total	3.5935	0.0336
Rate 125 Dedicated	Customer-Related	3.5599	
	Facility-Related:		
	Company Use	0.0016	0.0016
	UAF	0.0000	0.0000
	Compressor Fuel	0.0000	0.0000
	Facility-Related	<u>0.0016</u>	<u>0.0016</u>
	Total	3.5615	0.0016

Rate Class		Non-Large Final Emitter (¢/m ³)	Large Final Emitter (¢/m ³)
Rate 135	Customer-Related	3.5599	
	Facility-Related:		
	Company Use	0.0016	0.0016
	UAF	0.0320	0.0320
	Compressor Fuel	0.0050	0.0050
	<u>Facility-Related</u>	<u>0.0386</u>	<u>0.0386</u>
	Total	3.5985	0.0386
Rate 145	Customer-Related	3.5599	
	Facility-Related:		
	Company Use	0.0016	0.0016
	UAF	0.0320	0.0320
	Compressor Fuel	0.0050	0.0050
	<u>Facility-Related</u>	<u>0.0386</u>	<u>0.0386</u>
	Total	3.5985	0.0386
Rate 170	Customer-Related	3.5599	
	Facility-Related:		
	Company Use	0.0016	0.0016
	UAF	0.0320	0.0320
	Compressor Fuel	0.0050	0.0050
	<u>Facility-Related</u>	<u>0.0386</u>	<u>0.0386</u>
	Total	3.5985	0.0386
Rate 200	Customer-Related	0.0000	
	Facility-Related:		
	Company Use	0.0016	0.0016
	UAF	0.0320	0.0320
	Compressor Fuel	0.0050	0.0050
	<u>Facility-Related</u>	<u>0.0386</u>	<u>0.0386</u>
	Total	0.0386	0.0386

Rate Class		Non-Large Final Emitter (¢/m ³)	Large Final Emitter (¢/m ³)
Rate 300	Customer-Related	3.5599	
	Facility-Related:		
	Company Use	0.0016	0.0016
	UAF	0.0320	0.0320
	Compressor Fuel	0.0000	0.0000
	Facility-Related	0.0336	0.0336
	Total	3.5935	0.0336
Rate 300 Interruptible	Customer-Related	3.5599	
	Facility-Related:		
	Company Use	0.0016	0.0016
	UAF	0.0320	0.0320
	Compressor Fuel	0.0000	0.0000
	Facility-Related	0.0336	0.0336
	Total	3.5935	0.0336
Rate 315	Customer-Related	0.0000	
	Facility-Related:		
	Company Use	0.0000	0.0000
	UAF	0.0000	0.0000
	Compressor Fuel	0.0050	0.0050
	Facility-Related	0.0050	0.0050
	Total	0.0050	0.0050
Rate 316	Customer-Related	0.0000	
	Facility-Related:		
	Company Use	0.0000	0.0000
	UAF	0.0000	0.0000
	Compressor Fuel	0.0050	0.0050
	Facility-Related	0.0050	0.0050
	Total	0.0050	0.0050

Rate Class		Non-Large Final Emitter (¢/m ³)	Large Final Emitter (¢/m ³)
Rate 320	Customer-Related	0.0000	
	Facility-Related:		
	Company Use	0.0000	0.0000
	UAF	0.0000	0.0000
	Compressor Fuel	0.0000	0.0000
	Facility-Related	0.0000	0.0000
	Total	0.0000	0.0000
Rate 325	Customer-Related	0.0000	
	Facility-Related:		
	Company Use	0.0016	0.0016
	UAF	0.0000	0.0000
	Compressor Fuel	0.0050	0.0050
	Facility-Related	0.0067	0.0067
	Total	0.0067	0.0067
Rate 330	Customer-Related	0.0000	
	Facility-Related:		
	Company Use	0.0016	0.0016
	UAF	0.0000	0.0000
	Compressor Fuel	0.0050	0.0050
	Facility-Related	0.0067	0.0067
	Total	0.0067	0.0067
Rate 331	Customer-Related	0.0000	
	Facility-Related:		
	Company Use	0.0016	0.0016
	UAF	0.0000	0.0000
	Compressor Fuel	0.0000	0.0000
	Facility-Related	0.0016	0.0016
	Total	0.0016	0.0016

Rate Class		Non-Large Final Emitter (¢/m ³)	Large Final Emitter (¢/m ³)
Rate 332	Customer-Related	0.0000	
	Facility-Related:		
	Company Use	0.0016	0.0016
	UAF	0.0000	0.0000
	Compressor Fuel	0.0000	0.0000
	Facility-Related	0.0016	0.0016
	Total	0.0016	0.0016

(1) Includes Voluntary Participants and Other Exempt Gas Volumes