

EMISSIONS DISCLOSURE

Waste Connections emissions disclosure was developed using the Global Reporting Initiative (GRI) G4 Sustainability Reporting Guidelines. Waste Connections GHG Inventories were prepared by a third-party, independent environmental services firm with the conclusions audited and verified by a separate third-party. The data was prepared in a manner consistent with The Climate Registry (TCR) General Reporting Protocol (GRP) Version 2.1 dated January 2016 and its associated updates and clarifications.

In 2018, Waste Connections began using the SWICS calculation methodology. This methodology is more reflective of modern landfill design and industry

practices, and was utilized for comparison purposes relative to the solid waste peer group.

The impact of carbon sequestration in our landfills is significant and well documented in scientific literature. Due to anaerobic conditions that exist within landfills, lignins and hemicellulosic materials remain undecomposed. They represent approximately 50% of biogenic carbon in the waste stream. Waste Connections disposed of 36,020,954 and 34,116,400 tons of Municipal Solid Waste and Construction & Demolition debris in 2019 and 2020, respectively. In total, our landfills sequestered 12,340,905 and 11,790,884 MT CO₂e in 2019 and 2020, respectively.

G4-EN15:

Direct (Scope 1) greenhouse gas (GHG) emissions

MT CO ₂ e		
2018	2019	2020
5,089,083	6,006,643	5,609,964

G4-EN16:

Energy indirect (Scope 2) GHG emissions

MT CO ₂ e		
2018	2019	2020
53,993	55,442	51,506

G4-EN17: Other indirect (Scope 3) GHG emissions

Emissions Source	MT CO ₂ e		
	2018	2019	2020
Purchased goods and services	821,606	861,763	744,323
Capital goods	233,539	292,218	233,961
Waste generated in operations	117,871	151,342	77,359
Upstream transportation and distribution	429,847	503,351	498,960
Business travel (air and vehicle)	53,166	51,142	49,977
Use of sold products	54,785	84,119	48,436
Total	1,710,814	1,943,936	1,653,017



G4-EN18: GHG emissions intensity

	Unit	2018	2019	2020
Gross Revenue	\$ US Dollars Millions	\$ 4,923	\$ 5,389	\$ 5,446
Scope 1 Emissions	MT CO ₂ e	5,089,083	6,006,643	5,609,964
MT CO ₂ e/\$M Revenue		1,034	1,115	1,030
Scope 2 Emissions	MT CO ₂ e	53,993	55,442	51,506
MT CO ₂ e/\$M Revenue		11	10	9
Scope 1 & 2 Emissions	MT CO ₂ e	5,143,076	6,062,085	5,661,470
MT CO ₂ e/\$M Revenue		1,045	1,125	1,040

G4-EN19: Reduction of GHG emissions

Waste Connections has undertaken several initiatives to reduce GHG emissions. The Company collected landfill gas for use at landfill gas-to-energy facilities at 28 landfills in 2020. The beneficial reuse of landfill gas at these facilities resulted in annual avoided GHG emissions estimated at 690,492 and 746,092 MTCO₂e in 2019 and 2020, respectively. The estimate of avoided emissions assumed that natural gas was the fuel replaced by the use of landfill gas. The avoided emissions were calculated using default methodologies from TCR included CO₂, CH₄ and N₂O emissions.

Waste Connections diverts over 50% of collected waste volumes in certain markets, in some cases over 70%. The estimated avoided GHG emissions in 2019 and 2020 from recycling was 5,037,064 and 5,645,326 MT CO₂e, respectively. These values were calculated using the USEPA Waste Reduction Model (WARM).

Over the past several years, Waste Connections has deployed vehicles using alternative fuels such as compressed natural gas (CNG) and biodiesel as a means of reducing its GHG footprint. Waste Connections currently deploys approximately 1,200 CNG vehicles. The estimated annual

reduction in GHG emissions from CNG vehicles was 22,803 and 21,824 MT CO₂e in 2019 and 2020, respectively. The calculation uses an equivalent diesel vehicle as a baseline.

G4-EN22: Water discharge by quality and destination

In 2019, Waste Connections collected 703,342,262 gallons of leachate with 470,251,239 gallons being sent to third parties for treatment. In 2019, Waste Connections also collected 659,722,620 gallons of E&P produced water for on-site treatment. A total of 31,764,417 gallons of E&P produced water was sent to third parties for treatment in 2019.

In 2020, Waste Connections collected 696,531,341 gallons of leachate with 434,295,795 gallons being sent to third parties for treatment. In 2020, Waste Connections also collected 581,936,547 gallons of E&P produced water for on-site treatment. A total of 21,201,290 gallons of E&P produced water was sent to third parties for treatment in 2020.

Our E&P waste water treatment technologies allow us to process and dispose 100% of drilling-related waters without discharging to surface waters. The majority of waste fluids are injected into brine formations via deep wells.