



Dear Stakeholder,

Thank you for taking the time to read National Fuel Gas Company's 2021 Corporate Responsibility Report ("Report"). This Report builds on our previous disclosures, highlighting the Company's significant efforts to further enhance the sustainability of our business and our ongoing focus on corporate social responsibility in our workplace and the communities in which we operate. Across our organization, initiatives continue to be driven by our guiding principles of Safety, Environmental Stewardship, Community, Innovation, Satisfaction and Transparency. With an operating history that spans over 120 years, and a workforce that lives and works alongside our critical energy infrastructure each day, we are deeply committed to ensuring that these core values are employed in a manner that highlights our important role as a corporate citizen across our operating footprint.

Embracing Our Role in the Energy Transition

As we look ahead, I strongly believe that natural gas, with its extensive infrastructure, low emissions intensity and high energy density relative to other reliable fuel sources, will continue to play an important role in meeting the world's increasing energy needs and reducing greenhouse gas (GHG) emissions. As is evident from recent events in Europe, energy security and availability is paramount. At the more local level, we are seeing continued growth in demand within our operating footprint of Western New York and northwest Pennsylvania, where natural gas' resilience, reliability, and affordability compared with other alternatives make it the energy of choice for both space heating needs and commercial and industrial processes.

Natural gas offers an abundant, resilient and affordable energy solution, and has been a critical component in the transition to a lower-carbon economy. For example, increased natural gas power generation has helped drive the approximate 39% reduction in electricity generation emissions since 2005. Moreover, with respect

to National Fuel, our significant asset base, situated largely within Appalachia, one of the lowest emissions production basins in the United States, positions the Company well to further participate in the global energy transition.

However, to fully realize the benefits of natural gas as a lower carbon-intensive fuel and an integral part of the long-term energy complex, we too must lower the carbon footprint of our own operations across the value chain. Doing so will require us to continue to construct efficient and low-carbon intensity facilities, modernize our current systems, minimize fugitive methane emissions, and embrace low-carbon fuels like renewable natural gas (RNG) and hydrogen, and new solutions, like hybrid heating. We continue to take steps to achieve these important objectives.

Committed to Reducing Our Carbon Footprint

In 2021, we announced aggressive, yet credible, emissions reduction targets. We committed to reduce methane intensity at each of our major operating segments by 30% to 50% from 2020 levels, by 2030. We also established an absolute 25% GHG emissions reduction target by 2030 for our consolidated Company, using a 2020 baseline. Unlike the aspirational goals that have become commonplace, our targets, while challenging, are based on tangible initiatives the Company plans to implement. In calendar 2021, the Company made significant progress toward achieving these methane intensity targets, reinforcing our commitment to sustainably operating our assets.



The Company's success in reducing our methane intensity while substantially growing our business reinforces our commitment to constructing efficient and low-carbon intensity facilities and systems, and our continued focus on reducing the emissions profile of our existing operations. We plan to continue to build on our efforts, focusing on investments in emissions reducing work practice improvements, leveraging technology enhancements and exploring low-carbon initiatives.

Embedding Sustainability in Our Strategy

The Company continues to integrate sustainability-focused initiatives in our strategy across our operations while producing, transporting, storing and delivering affordable and reliable natural gas to our customers.

- **Responsible Natural Gas Production:** In early 2022, our Upstream Segment achieved certification of 100% of our natural gas production under Equitable Origin's EO100™ Standard for Responsible Energy Development, as well as certification of 121 wells under Project Canary's TrustWell™ responsibly sourced gas program. In addition, in August, Seneca Resources achieved an "A" grade for 100% of our natural gas production under MiQ's Standard for Methane Emissions Performance, the highest available certification level. These certifications position National Fuel to differentiate its responsibly sourced production in the marketplace and reinforces our commitment to efficient operations and reducing our carbon footprint.



- Leveraging Existing Infrastructure:** Natural gas infrastructure has proven to be incredibly reliable and resilient and, as we look to the future, should be well suited to incorporate low and zero-carbon fuels. National Fuel is pursuing initiatives to help make these nascent technologies a practical reality. In March, the Company joined a newly-formed consortium, Building the Clean Hydrogen Economy, which will work together to create and launch innovative pilot projects that use clean hydrogen to decarbonize heavy transport, increase renewables integration, and decarbonize the U.S. energy sector more broadly. Additionally, in April, the Company joined a New York-led consortium of over 40 hydrogen ecosystem partners, to develop a proposal to become one of at least four regional clean energy hydrogen hubs designated through the federal Regional Clean Hydrogen Hubs program. Our membership in these important consortiums builds on our participation in energy technology-development groups such as the Low Carbon Resources Initiative, and the continuing efforts of the Company's Energy Transition Steering Committee, which is studying the feasibility and potential development of projects focused on RNG, hydrogen, and carbon capture utilization and storage.
- Energy Efficiency:** Our Downstream Segment continues to develop and promote energy efficiency programs that encourage our customers to use less. Since its inception, our Conservation Incentive Program has resulted in a cumulative total reduction of approximately 1.6 million metric tons of carbon dioxide emissions for our New York utility customers. Additionally, we continue to advocate for additional energy efficiency initiatives across our service territory, including hybrid heating system installations and building envelope improvements.

Enhancing Our Sustainability Disclosures

National Fuel is committed to continuously improving our environmental, social, and governance (“ESG”) performance. We report our progress in line with the Sustainability Accounting Standards Board (SASB) standards for each of our business segments, while also providing supplemental ESG information and metrics that align with key stakeholder priorities. In accordance with the Task Force on Climate-Related Financial Disclosures (TCFD) framework, the Company continues to enhance its disclosure surrounding governance of climate-related risks and opportunities, related risk management processes, and metrics and targets used to focus Company initiatives related to those factors. In March, the Company published our inaugural [Climate Report](#), which further aligned our disclosures with TCFD. That report analyzes climate-related transitional and physical risks, and describes both our strategy for addressing climate-related risks and opportunities, as well as the resiliency of that strategy under a carbon constrained scenario.

The analysis detailed in the Climate Report – developed with the assistance of a third-party consultant using International Energy Agency (IEA) published scenarios – demonstrates that each of National Fuel's business segments can continue to operate profitably and generate free cash flow through 2050 even using the IEA's remarkably pessimistic assumptions on long-term demand for natural gas and long-term natural gas prices (\$2.00 per dekatherm). Additionally, the physical risk analysis illustrates that our weather-hardened infrastructure is well-positioned to serve an essential role in addressing long-term energy reliability and resiliency needs, particularly during severe climate events.

Strengthening Our Safety Culture

Safety is a guiding principle and our top priority at National Fuel. We strive to establish a culture that is rooted in all aspects of safety. Throughout this report you will see the numerous programs and initiatives that we've undertaken to help ensure the safety of our customers, employees and operations. I'm proud to report that for the second year in a row, in fiscal year 2021, both our Utility and Pipeline & Storage businesses achieved an all-time combined best safety record for OSHA recordable incident metrics. Additionally, our Upstream Segment also saw an improvement in its employee OSHA recordable incident rate in calendar year 2021.

Furthermore, after more than two years, it looks like the pandemic is largely behind us. I am proud of the efforts of our 2,100 dedicated employees who have helped the Company further numerous new initiatives while continuing to provide safe and reliable natural gas service against the backdrop of the pandemic. Our employees make it possible for National Fuel to continue its long history of meeting our customers' needs, all while focusing on the efficiency and sustainability of our operations.

Focused on Diversity, Equity, and Inclusion

National Fuel believes that fostering a diverse, equitable and inclusive work environment directly correlates to our success. This Report marks our third year publishing workforce demographics data, in line with our guiding principle of transparency. We understand that progress toward improving our diversity metrics requires ongoing effort across all levels of our organization. To that end, I am pleased to announce that in January 2022, four employee resource groups were created to engage underrepresented employees. These groups are

employee-led and made up of individuals with common backgrounds, interests, and demographic factors. The groups include EDGEFuel (ethnically diverse group of employees), FEMALEFuel, LGBTQ&AlliesFuel, and VETFuel (employees who serve(d) in the military).

Looking to the future, National Fuel is well-positioned to maintain its important role as a producer, transporter, and provider of vital energy supplies, as has been the case for well over a century. Our commitment to continuous improvement across all aspects of our organization, alongside our focus on the sustainability of our operations, the safety and reliability of our assets, and the diversity and inclusivity of our dedicated and talented workforce, fortifies the already strong foundation for our business, as well as for the achievement of our ESG initiatives and targets. We look forward to further reporting on our continued progress in the coming years.



David P. Bauer

President and Chief Executive Officer

Report Overview and Highlights

This Report provides discussion and analysis of National Fuel's ESG metrics, the Company's management of those metrics, and the programs and policies in place to achieve National Fuel's commitment to the safe and environmentally conscious operation of its business. The Report includes updated ESG disclosures from January 1–December 31, 2021, and as appropriate, significant developments that have occurred since the end of this reporting period.

Disclosures within the Report are aligned with the Sustainability Accounting Standards Board (SASB) framework for each of National Fuel's principal business Segments, referred to within the Report as the Company's Downstream, Midstream, and Upstream segments, respectively, as well as certain disclosures under the Global Reporting Initiative ("GRI") standards. Additionally, in line with National Fuel's commitment to continuously improving our corporate responsibility and sustainability initiatives, including our ESG disclosures, the Report builds on our previous disclosures to include supplemental information in line with the TCFD framework, and enhances our emissions, and diversity and inclusion-focused, disclosures. A detailed listing of the location of the Company's ESG disclosures within this Report, by framework and subject area, is located in the Appendix.

Report Frameworks

GRI-Referenced Standards

- Governance and Social metrics

SASB

- Downstream (Gas Utilities and Distributors)
- Midstream (Oil & Gas – Midstream)
- Upstream (Oil & Gas – Exploration & Production)

TCFD

- Governance of sustainability
- Strategy concerning potential impacts of climate-related risks and opportunities, and resiliency of our strategy under climate-related scenarios
- Risk management process to identify, assess and manage climate-related risks
- Metrics and targets used to assess and manage climate-related risks and opportunities

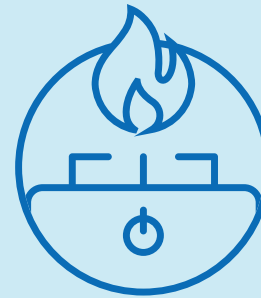
Report Highlights

The Company is committed to continuously improving our corporate responsibility initiatives. Our Report further enhances past disclosures with a focus on:

- Climate-related risks, opportunities, and resiliency
- Progress towards emissions targets
- Sustainability initiatives related to emissions reductions, low-carbon fuels, and responsibly sourced natural gas
- Waste management program
- Diversity, Equity, and Inclusion
- Internal audit review prior to publication

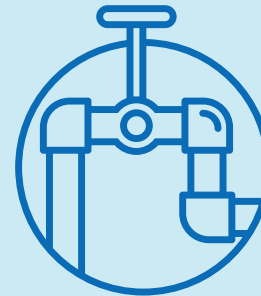
Company Overview

National Fuel is a holding company organized under the laws of the state of New Jersey and headquartered in Western New York. The Company is a diversified energy company engaged principally in the onshore production, gathering, transportation, and distribution of natural gas. The Company operates an integrated business, with assets centered in Western New York and Pennsylvania, being used for, and benefiting from, the production and transportation of natural gas from the Appalachian basin. Current natural gas production development activities are focused in the Marcellus and Utica shales, geological shale formations that are present nearly a mile or more below the surface in the Appalachian region of the United States. Pipeline development activities are designed to gather, store and transport natural gas production to new and growing markets. The common geographic footprint of the Company's subsidiaries enables them to share certain management, labor, facilities, and support services across various businesses and pursue coordinated projects designed to produce and transport natural gas from the Appalachian basin to markets in the eastern United States and Canada. The Company previously developed and produced oil reserves, primarily in California, prior to the divestiture of these assets on June 30, 2022. The Company reports financial results for four business segments: Exploration and Production, Pipeline and Storage, Gathering, and Utility.



Downstream

National Fuel Gas Distribution Corporation ("Distribution Corporation" or "Downstream Segment"), a New York corporation, carries out the Company's Utility operations. Distribution Corporation provides natural gas utility services to approximately 754,000 customers through a local distribution system located in Western New York and northwestern Pennsylvania. The principal metropolitan areas served by Distribution Corporation include Buffalo, Niagara Falls and Jamestown, New York and Erie and Sharon, Pennsylvania.



Midstream

The Company's Midstream operations are carried out by the Company's Pipeline & Storage and Gathering subsidiaries (collectively the "Midstream Segment"). National Fuel Gas Supply Corporation ("Supply Corporation"), a Pennsylvania corporation, and Empire Pipeline, Inc. ("Empire"), a New York corporation, carry out the Company's Pipeline & Storage operations. Supply Corporation and Empire provide interstate natural gas transportation and storage services through integrated gas pipeline systems in Pennsylvania and New York. Wholly-owned subsidiaries of National Fuel Gas Midstream Company, LLC ("Midstream Company"), a Pennsylvania limited liability company, carry out the Company's Gathering operations. Through these subsidiaries, Midstream Company builds, owns, and operates natural gas gathering and compression facilities in the Appalachian region.



Upstream

Seneca Resources Company, LLC ("Seneca"), a Pennsylvania limited liability company, carries out the Company's Exploration & Production operations. Seneca is engaged in the exploration for, and the development and production of, natural gas in the Appalachian region of the United States.

Our Guiding Principles

National Fuel understands that to deliver long-term sustainable value for the benefit of stakeholders – shareholders, employees, customers, and communities where we operate – we must continue to conduct our business activities in a way that promotes our six guiding principles. These principles underpin all aspects of our operations, as well as our daily interactions with our stakeholders.



Safety

We value the safety of all our customers, employees and communities, and work diligently to establish a culture of safety that is embraced throughout the entire organization.



Environmental Stewardship

Environmental protection and conservation of resources are high priorities for National Fuel. We utilize procedures, technologies, and best management practices across our businesses to develop, build, and operate our assets in a manner that respects and protects the environment.



Community

We are committed to the health and vitality of the local communities where we operate. We work where we live and raise our families, and are constantly focused on the highest standards of corporate responsibility and accountability.



Innovation

We strive to exceed the standards for safe, clean and reliable energy development, embracing new technologies and investing in the future of our regions' energy resources. We envision a long and healthy future for our Company.



Satisfaction

We work to deliver reliable, high-quality service for our customers. We want our shareholders to see a strong return on their investment. We want our employees to work in a positive, safe and rewarding environment. We want our communities to be proud to call us neighbors.



Transparency

We believe that open communication is key to maintaining strong relationships. We see value in educating our shareholders, employees, customers and communities about all aspects of our business.

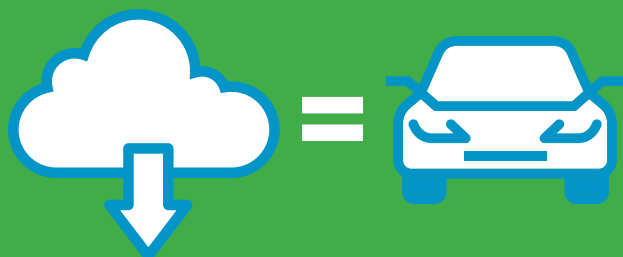
CORPORATE
RESPONSIBILITY
HIGHLIGHTS | 2021



National Fuel
has joined other
natural gas
companies that are
voluntarily working toward
**reducing methane
emissions across the
natural gas value chain
to 1% or less by 2025.**



Downstream System
Modernization Emissions
Reductions Since 1990



8.43 Million
MT CO₂e

1.83 Million
Passenger
Vehicles

Seneca announced it has
achieved **certification of 100%**
**of its Appalachian natural gas
production**, over 1 billion cubic feet
of daily gross production, under
Equitable Origin's EO100™ Standard
for Responsible Energy Development.





All Segments **improved performance** under OSHA safety metrics.

Focused on Utility Leak Management Calendar Year-End 2016 - 2021

73%
Reduction
in Year-End
Outstanding
Leaks

29%
Improvement
in Year-End
Discovered
Leaks



Diverse and Independent Board of Directors

 **Board Independence**
91% independent

 **Board Tenure**
64% with more than 5 years of service

 **Board Diversity**
27% diverse
Includes gender and racial/ethnic diversity.



Supplier D&I Utility Spending

77% increase
in spending with diverse suppliers

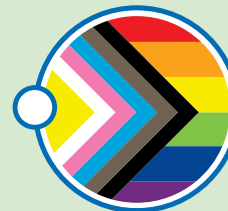
Employee Resource Groups



FEMALEFuel



EDGEFuel



LGBTQ&AlliesFuel



VetFuel



\$1.8 million

as donated by National Fuel,
its Foundation and
employees in 2021.



The “Faces of Fuel”
volunteer program
**provides opportunities
for employees** to donate
their time to charitable
causes in their local
communities.



Consolidated Data Tables

Posted: September 12, 2022

This workbook contains a consolidated view of our ESG metrics for years 2019, 2020, and 2021. Our disclosure primarily uses the standards of the Sustainability Accounting Standard's Board (SASB), but it also encompasses sustainability data considered under our Task Force on Climate-Related Financial Disclosures (TCFD) reporting. This information is presented in our Report in more detail.

Post Divestiture Emissions Data

Accounting Metric	2019	2020	2021
Scope 1 & 2 Emissions Intensity (kg CO₂e/BOE)			
Utility (Distribution Corporation)			
Methane Emissions Intensity	—	14.5	13.6
Greenhouse Gas Emissions Intensity	—	15.0	14.1
Pipeline & Storage (Supply Corporation & Empire)			
Methane Emissions Intensity	—	2.49	1.89
Greenhouse Gas Emissions Intensity	—	4.82	4.33
Gathering (Midstream Company)			
Methane Emissions Intensity	—	2.45	2.17
Greenhouse Gas Emissions Intensity	—	9.01	8.38
Exploration & Production (Seneca)¹			
Methane Emissions Intensity	2.49	2.70	2.58
Greenhouse Gas Emissions Intensity	4.38	4.36	4.30
Total Scope 1 Greenhouse Gas Emissions (Metrics Tons CO₂e)			
Utility (Distribution Corporation)	374,843	365,766	354,270
Pipeline & Storage (Supply Corporation & Empire)	545,795	543,160	530,314
Gathering (Midstream Company)	468,438	515,815	528,065
Exploration & Production (Seneca)¹	276,435	257,496	264,730
Consolidated Total	1,665,511	1,682,237	1,677,379

continued

¹ Following the June 30, 2022 divestiture of Seneca's California assets, emissions data includes only Appalachian natural gas development program.

Post Divestiture Emissions Data

Total Scope 1 Methane Emissions (Metrics Tons CH₄ as CO₂e)			
Utility (Distribution Corporation)	13,028	12,702	12,265
Pipeline & Storage (Supply Corporation & Empire)	318,681	283,142	234,522
Gathering (Midstream Company)	165,806	140,310	137,120
Exploration & Production (Seneca)¹	157,729	159,517	159,147
Consolidated Total	655,244	595,671	543,054
Total Scope 2 Emissions (Metrics Tons CO₂e)			
Utility (Distribution Corporation)	—	1,282	1,109
Pipeline & Storage (Supply Corporation & Empire)	—	5,619	6,124
Gathering (Midstream Company)	—	629	794
Exploration & Production (Seneca)¹	401	430	404
Consolidated Total	401	7,960	8,431

¹ Following the June 30, 2022 divestiture of Seneca's California assets, emissions data includes only Appalachian natural gas development program.

Consolidated Emissions Data (Includes California Assets)

Accounting Metric	2019	2020	2021
Scope 1 & 2 Emissions Intensity (kg CO₂e/BOE)			
Utility (Distribution Corporation)			
Methane Emissions Intensity	—	14.5	13.6
Greenhouse Gas Emissions Intensity	—	15.0	14.1
Pipeline & Storage (Supply Corporation & Empire)			
Methane Emissions Intensity	—	2.49	1.89
Greenhouse Gas Emissions Intensity	—	4.82	4.33
Gathering (Midstream Company)			
Methane Emissions Intensity	—	2.45	2.17
Greenhouse Gas Emissions Intensity	—	9.01	8.38
Exploration & Production (Seneca)			
Methane Emissions Intensity	2.44	2.64	2.51
Greenhouse Gas Emissions Intensity	9.24	9.65	9.25
Total Scope 1 Greenhouse Gas Emissions (Metrics Tons CO₂e)			
Utility (Distribution Corporation)	374,843	365,766	354,270
Pipeline & Storage (Supply Corporation & Empire)	545,795	543,160	530,314
Gathering (Midstream Company)	468,438	515,815	528,065
Exploration & Production (Seneca)	601,419	587,490	585,031
Consolidated Total	1,990,495	2,012,231	1,997,680
Total Scope 1 Methane Emissions (Metrics Tons CH₄ as CO₂e)			
Utility (Distribution Corporation)	13,028	12,702	12,265
Pipeline & Storage (Supply Corporation & Empire)	318,681	283,142	234,522
Gathering (Midstream Company)	165,806	140,310	137,120
Exploration & Production (Seneca)	161,953	163,955	161,515
Consolidated Total	659,468	600,109	545,422
Total Scope 2 Emissions (Metrics Tons CO₂e)			
Utility (Distribution Corporation)	—	1,282	1,109
Pipeline & Storage (Supply Corporation & Empire)	—	5,619	6,124
Gathering (Midstream Company)	—	629	794
Exploration & Production (Seneca)	11,355	11,907	11,493
Consolidated Total	11,355	19,437	19,520

Consolidated Diversity Metrics

Race and Ethnic Diversity	Asian	Black/ African American	Hispanic/ Latino	Other ¹	White
EEO-1 Job Category – 2019					
Executive/Senior Level Officials	0.00%	1.44%	0.00%	0.00%	98.56%
First/ Mid-Level Officials	0.28%	1.42%	1.99%	0.28%	96.02%
Professionals	2.47%	1.10%	3.01%	0.82%	92.60%
Technicians	0.00%	1.72%	5.17%	0.00%	93.10%
Craft Workers	0.00%	3.80%	0.54%	1.09%	94.57%
Operatives	0.00%	1.96%	2.35%	1.17%	94.52%
Laborers and Helpers	0.00%	9.26%	4.63%	0.93%	85.19%
Administrative Support Workers	0.00%	15.94%	3.70%	1.15%	79.21%
EEO-1 Job Category – 2020					
Executive/Senior Level Officials	0.00%	1.95%	0.65%	0.00%	97.40%
First/ Mid-Level Officials	0.56%	1.39%	1.67%	0.28%	96.11%
Professionals	2.67%	1.07%	2.93%	0.80%	92.53%
Technicians	0.00%	1.61%	4.84%	0.00%	93.55%
Craft Workers	0.00%	3.33%	0.56%	1.67%	94.44%
Operatives	0.00%	1.63%	2.36%	1.09%	94.93%
Laborers and Helpers	0.00%	13.46%	2.88%	0.00%	83.65%
Administrative Support Workers	0.24%	15.63%	3.37%	0.72%	80.05%
EEO-1 Job Category – 2021					
Executive/Senior Level Officials	0.00%	1.97%	0.66%	0.00%	97.37%
First/ Mid-Level Officials	0.51%	1.54%	1.29%	0.26%	96.40%
Professionals	3.26%	1.90%	2.72%	1.09%	91.03%
Technicians	0.00%	1.61%	4.84%	0.00%	93.55%
Craft Workers	0.00%	3.41%	0.57%	1.70%	94.32%
Operatives	0.00%	1.24%	2.66%	1.24%	94.86%
Laborers and Helpers	0.00%	14.44%	1.11%	1.11%	83.33%
Administrative Support Workers	0.49%	13.83%	3.16%	0.24%	82.28%

Average Years of Service by Race and Ethnic Diversity	Asian	Black/ African American	Hispanic/ Latino	Other ¹	White
Years	5.84	11.33	10.17	8.73	10.33

Gender Diversity	2019		2020		2021	
	Female	Male	Female	Male	Female	Male
Executive/Sr Level Officials	20.14%	79.86%	21.43%	78.57%	22.37%	77.63%
First/Mid Level Officials	18.75%	81.25%	19.17%	80.83%	20.05%	79.95%
Professionals	34.52%	65.48%	34.13%	65.87%	32.88%	67.12%
Technicians	17.24%	82.76%	16.13%	83.87%	16.13%	83.87%
Craft Workers	6.52%	93.48%	5.56%	94.44%	4.55%	95.45%
Operatives	2.35%	97.65%	2.17%	97.83%	2.66%	97.34%
Laborers and Helpers	7.41%	92.59%	8.65%	91.35%	5.56%	94.44%
Administrative Support Workers	79.21%	20.79%	76.92%	23.08%	80.58%	19.42%

Average Years of Service by Gender Diversity

Female	Male
11.33	9.75

Age Diversity	2019	2020	2021
56 and older	16.37%	16.16%	15.00%
41-55 years old	33.44%	33.27%	33.39%
26-40 years old	42.84%	43.08%	44.83%
25 and younger	7.35%	7.49%	6.78%

1 Other includes the following classifications: Native American or Alaska Native, Native Hawaiian or Pacific Islander and Two or More Races.

Downstream Segment

	2019	2020	2021
Scope 1 & 2 Emissions Intensity (kg CO₂e/BOE)			
Utility (NY)			
Methane Emissions Intensity	—	14.0	13.2
Greenhouse Gas Emissions Intensity	—	14.5	13.7
Utility (PA)			
Methane Emissions Intensity	—	15.6	14.5
Greenhouse Gas Emissions Intensity	—	16.1	15.0
Utility (All)			
Methane Emissions Intensity	—	14.5	13.6
Greenhouse Gas Emissions Intensity	—	15.0	14.1
Scope 1 Greenhouse Gas Emissions (Metrics Tons CO₂e)			
Utility (NY)			
EPA Subpart W Mandatory Reporting	178,300	169,887	162,059
Additional EPA Subpart W Facilities	1,473	1,448	1,408
Other Sources	65,512	67,234	66,525
Total Utility (NY)	245,285	238,569	229,992
Utility (PA)			
EPA Subpart W Mandatory Reporting	99,469	96,861	94,088
Additional EPA Subpart W Facilities	329	110	0
Other Sources	29,760	30,226	30,190
Total Utility (PA)	129,558	127,197	124,278
Utility (All)			
EPA Subpart W Mandatory Reporting	277,769	266,748	256,147
Additional EPA Subpart W Facilities	1,802	1,558	1,408
Other Sources	95,272	97,460	96,715
Total Utility (All)	374,843	365,766	354,270

continued

Downstream Segment

	2019	2020	2021
Methane (CH₄) Emissions (Metrics Tons)			
Utility (NY)			
EPA Subpart W Mandatory Reporting	6,360	6,060	5,781
Additional EPA Subpart W Facilities	53	52	50
Other Sources	2,104	2,167	2,125
Total Utility (NY)	8,517	8,279	7,956
Utility (PA)			
EPA Subpart W Mandatory Reporting	3,549	3,456	3,356
Additional EPA Subpart W Facilities	12	4	0
Other Sources	950	963	953
Total Utility (PA)	4,511	4,423	4,309
Utility (All)			
EPA Subpart W Mandatory Reporting	9,909	9,516	9,137
Additional EPA Subpart W Facilities	65	56	50
Other Sources	3,054	3,130	3,078
Total Utility (All)	13,028	12,702	12,265
Scope 2 Emissions (Metrics Tons CO₂e)			
New York	—	730	603
Pennsylvania	—	552	506
Total Utility (All)	—	1,282	1,109
Average Emergency Response Time (Minutes)			
New York	16.5	16.6	16.5
Pennsylvania	19.7	20.8	19.4

continued

Downstream Segment

	2019	2020	2021
OSHA Total Recordable Incident Rate (TRIR) (Fiscal Year October 1 to September 30)			
TRIR	4.34	2.88	2.45
Injuries	56	37	31
Hours Worked	2,578,155	2,572,247	2,525,864
OSHA Days Away, Restricted or Transferred Rate (DART) (Fiscal Year October 1 to September 30)			
DART	2.87	2.57	1.74
Incidents	37	33	22
Hours Worked	2,578,155	2,572,247	2,525,864
Average Retail Gas Rates (per MCF)			
Bundled Retail Sales			
Residential	\$8.14	\$7.91	\$8.97
Commercial	\$7.36	\$7.07	\$8.11
Industrial	\$6.41	\$6.28	\$7.45
Total Retail	\$8.02	\$7.79	\$8.85
Transportation Sales			
Residential	\$3.63	\$3.99	\$4.10
Commercial	\$2.04	\$2.18	\$2.25
Industrial	\$0.73	\$0.76	\$0.77
Total Transportation	\$1.61	\$1.69	\$1.63

Midstream Segment

	2019	2020	2021
Scope 1 & 2 Emissions Intensity (kg CO₂e/BOE)			
Pipeline & Storage (Supply Corporation & Empire)			
Methane Emissions Intensity	—	2.49	1.89
Greenhouse Gas Emissions Intensity	—	4.82	4.33
Gathering (Midstream Company)			
Methane Emissions Intensity	—	2.45	2.17
Greenhouse Gas Emissions Intensity	—	9.01	8.38
Midstream Segment			
Methane Emissions Intensity	—	2.47	1.99
Greenhouse Gas Emissions Intensity	—	6.22	5.70
Scope 1 Greenhouse Gas Emissions (Metrics Tons CO₂e)			
Empire			
EPA Mandatory Reporting Sources	27,863	31,145	94,816
Additional EPA Sources	17,454	24,129	3,814
Other Sources	2,549	4,605	7,482
Total Empire	47,866	59,879	106,112
Supply Corporation			
EPA Mandatory Reporting Sources	301,112	288,389	256,773
Additional EPA Sources	187,264	184,517	156,643
Other Sources	9,553	10,375	10,786
Total Supply Corporation	497,929	483,281	424,202
Gathering (Midstream Company)			
EPA Mandatory Reporting Sources	466,712	506,979	514,740
Additional EPA Sources	1,134	8,221	12,660
Other Sources	592	615	665
Total Midstream Company	468,438	515,815	528,065
Midstream Segment			
EPA Mandatory Reporting Sources	795,687	826,513	866,329
Additional EPA Sources	205,852	216,867	173,117
Other Sources	12,694	15,595	18,933
Total Midstream Segment	1,014,233	1,058,975	1,058,379

continued

Midstream Segment

	2019	2020	2021
Scope 1 Methane Emissions (Metrics Tons CH₄ as CO₂e)			
Empire			
EPA Mandatory Reporting Sources	3,070	3,573	5,194
Additional EPA Sources	17,436	4,011	3,315
Other Sources	2,546	4,600	7,475
Total Empire	23,052	12,184	15,984
Supply Corporation			
EPA Mandatory Reporting Sources	133,621	111,394	96,270
Additional EPA Sources	155,004	152,378	114,826
Other Sources	7,004	7,186	7,442
Total Supply Corporation	295,629	270,958	218,538
Midstream Company			
EPA Mandatory Reporting Sources	164,273	138,582	122,234
Additional EPA Sources	1,031	1,217	14,360
Other Sources	502	511	526
Total Midstream Company	165,806	140,310	137,120
Midstream Segment			
EPA Mandatory Reporting Sources	300,964	253,549	223,698
Additional EPA Sources	173,471	157,606	132,501
Other Sources	10,052	12,297	15,443
Total Midstream Segment	484,487	423,452	371,642
Scope 2 Emissions (Metrics Tons CO₂e)			
Empire	—	881	1,634
Supply Corporation	—	4,738	4,490
Midstream Company	—	629	794
Total Midstream Segment	—	6,248	6,918

continued

Midstream Segment

Air Emissions (Metric Tons)			
Empire			
NO _x	—	18	24
SO _x	—	2	3
VOC	—	3	4
PM	—	1	2
Supply			
NO _x	348	448	402
SO _x	2	4	3
VOC	268	260	244
PM	22	25	14
Midstream Company			
NO _x	253	317	320
SO _x	2	3	2
VOC	66	91	74
PM	13	13	14
Midstream Segment			
NO _x	601	783	746
SO _x	4	9	8
VOC	334	354	322
PM	35	39	30
OSHA Total Recordable Incident Rate (TRIR) (Fiscal Year October 1 to September 30)			
TRIR	1.02	0.49	0.98
Injuries	4	2	4
Hours Worked	785,616	813,044	820,130
OSHA Days Away, Restricted or Transferred Rate (DART) (Fiscal Year October 1 to September 30)			
DART	0.51	0.25	0.73
Incidents	2	1	3
Hours Worked	785,616	813,044	820,130

Upstream Segment (Includes California Assets)

	2019	2020	2021
Scope 1 & 2 Emissions Intensity (kg CO₂e/BOE)			
Appalachia			
Methane Emissions Intensity	2.49	2.70	2.58
Greenhouse Gas Emissions Intensity	4.38	4.36	4.30
California			
Methane Emissions Intensity	1.39	1.48	0.86
Greenhouse Gas Emissions Intensity	109.92	111.73	119.72
Seneca (All)			
Methane Emissions Intensity	2.44	2.64	2.51
Greenhouse Gas Emissions Intensity	9.24	9.65	9.25
Scope 1 Greenhouse Gas Emissions (Metrics Tons CO₂e)			
Appalachia			
EPA Mandatory Reporting Sources	233,870	229,950	247,575
Other Sources	41,592	26,439	16,044
Fleet	932	1,065	1,082
Office	41	42	29
Total Appalachia	276,435	257,496	264,730
California			
EPA Mandatory Reporting Sources	312,638	318,834	310,796
Other Sources	11,946	10,661	9,030
Fleet	400	499	475
Office	0	0	0
Total California	324,984	329,994	320,301
Seneca (All)			
EPA Mandatory Reporting Sources	546,508	548,784	558,371
Other Sources	53,538	37,100	25,074
Fleet	1,332	1,564	1,557
Office	41	42	29
Total Seneca	601,419	587,490	585,031

Upstream Segment

	2019	2020	2021
Scope 1 Methane Emissions (Metrics Tons CH₄ as CO₂e)			
Appalachia			
EPA Mandatory Reporting Sources	156,350	159,109	158,700
Other Sources	1,376	406	446
Fleet	3	2	1
Office	0	0	0
Total Appalachia	157,729	159,517	159,147
California			
EPA Mandatory Reporting Sources	3,745	3,865	1,985
Other Sources	479	573	383
Fleet	0	0	0
Office	0	0	0
Total California	4,224	4,438	2,368
Seneca (All)			
EPA Mandatory Reporting Sources	160,095	162,974	160,685
Other Sources	1,855	979	829
Fleet	3	2	1
Office	0	0	0
Total Seneca	161,953	163,955	161,515
Scope 2 Emissions (Metrics Tons CO₂e)			
Total Appalachia	401	430	404
Total California	10,954	11,477	11,089
Total Seneca	11,355	11,907	11,493
Criteria Pollutant Emissions (Metric Tons)			
CO	130.11	122.28	134.20
NO _x	360.61	355.88	474.79
PM-10	19.34	17.21	21.77
SO _x	1.78	1.76	1.47
VOC	43.69	44.39	51.17

continued

Upstream Segment

	2019	2020	2021
Freshwater Withdrawn and Freshwater Consumed (Thousands of Cubic Meters)			
Appalachia			
Total Water Withdrawn	811	428	1,149
% of Water from Locations with High or Extremely – High Water Risk	0%	0%	0%
Total Freshwater Consumed	793	770	1,166
% of Water from Locations with High or Extremely – High Water Risk	0%	0%	0%
California			
Total Water Withdrawn	114	115	106
% of Water from Locations with High or Extremely – High Water Risk	100%	100%	100%
Total Freshwater Consumed	114	115	106
% of Water from Locations with High or Extremely – High Water Risk	100%	100%	100%
Seneca (All)			
Total Water Withdrawn	925	543	1,255
% of Water from Locations with High or Extremely – High Water Risk	12%	21%	8%
Total Freshwater Consumed	907	885	1,272
% of Water from Locations with High or Extremely – High Water Risk	13%	13%	8%
Volume of Produced Water and Flowback Generated (Thousands of Cubic Meters)			
Appalachia			
Produced Water and Flowback	1,229	1,294	1,620
% Discharged	0.0%	0.0%	0.0%
% Injected	5.5%	3.5%	7.4%
% Recycled	94.5%	96.5%	92.6%
California			
Produced Water and Flowback	3,843	4,269	4,305
% Discharged	0.0%	0.0%	0.0%
% Injected	39.7%	48.7%	48.3%
% Recycled	60.3%	51.3%	51.7%
Seneca (All)			
Produced Water and Flowback	5,072	5,563	5,925
% Discharged	0.0%	0.0%	0.0%
% Injected	31.4%	38.2%	37.1%
% Recycled	68.6%	61.8%	62.9%

continued

Upstream Segment

	2019	2020	2021
Number and Volume of Hydrocarbon Spills (Bbls)			
Number of Spills Greater than 1 Bbl	4	0	2
Total Volume of Spills Reported Above	4.6	0	22
Total Volume of Spills Occurring in the Artic	Not Applicable	Not Applicable	Not Applicable
Total Volume of Spills Impacting Environmentally Sensitive Shoreline	0	0	0
Total Recordable Incident Rate (TRIR)			
Full Time Employees	0.41	0.76	0.40
Contract Employees	0.99	0.73	1.23
Short-Service Employees	—	—	—
Fatality Rate			
Full Time Employees	0.00	0.00	0.00
Contract Employees	0.00	0.21	0.00
Short-Service Employees	—	—	—
Near Miss Frequency Rate (NMFR)			
Full-Time and Contract Employees	8.86	16.00	12.66



National Fuel

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