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# Avangrid SASB Report

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## 2023

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# ELECTRIC

## Greenhouse Gas Emissions & Energy Resource Planning

### ■ IF-EU-110a.1

1. Gross global Scope 1 emissions,
2. Percentage covered under emissions limiting regulations, and
3. Percentage covered under emissions-reporting regulations.

CO2 emissions from power generation (t CO2 eq)			
	2023	2022	2021
Thermal generating plants	n/a	n/a	n/a
Cogeneration	1,245,098	1,012,134	1,267,066
Other emissions	47,188	38,212	39,712
<b>Total</b>	<b>1,292,286</b>	<b>1,050,346</b>	<b>1,306,778</b>

Other CO2 emissions (t CO2 eq)				
	2023	2022	2021	Source of Emission Factors
CH4 and N2O emissions from combustion (Non-renewable generating plants)	1,138	1,021	1,287	EPA
CH4 Fugitive Emissions (Gas storage and transport)	222,897	237,626	222,281	IPCC-AR5
SF6 Fugitive Emissions (Electricity distribution)	22,697	32,137	20,802	IPCC-AR5
Emissions in buildings (Fuel consumption)	58,920	5,132	5,846	DEFRA
Emissions from mobile combustion (Fleet)	38,560	49,202	33,311	DEFRA
Other emissions (Gas storage, coolant gases)	N/A	N/A	—	EPA
<b>Total</b>	<b>344,212</b>	<b>325,118</b>	<b>283,527</b>	

Total Scope 1 emissions (t CO2 eq)			
	2023	2022	2021
<b>Total</b>	<b>1,636,499</b>	<b>1,375,464</b>	<b>1,590,305</b>

■ **IF-EU-110a.2**

Greenhouse gas (GHG) emissions associated with power deliveries

Scope 3 emissions (t CO <sub>2</sub> eq)			
	2023	2022	2021
Emissions associated with the generation of energy for third parties	—	—	—
Emissions from employee business travel	4,980	3,087	2,689
Emissions associated with the use of gas products	7,114,159	7,565,280	7,247,591
Emissions associated with the supply chain	932,179	775,952	1,100,820
Emissions associated with employee commutes to/from the workplace	8,139	12,667	992
Emissions associated with the energy purchased from third parties for sale to end customers*	601,478	2,012,357	4,129,811
Upstream (WTT) emissions from fuel acquired and consumed	229,644	177,242	230,474
<b>Total</b>	<b>8,890,579</b>	<b>10,546,585</b>	<b>12,712,377</b>

\*Note: Variance year over year includes:

2021 results include CMP electricity sold which should be excluded as the entity is in a deregulated market.  
2022 results include total renewable energy from a PPA. The PPA is no longer in existence.

■ **IF-EU-110a.3**

Discussion of long- and short-term strategy or plan to manage Scope 1 emissions, emissions reduction targets, and an analysis of performance against those targets

See [Avangrid 2023 Sustainability Report](#)

- Sustainability Strategy and Highlights, page 4
- Our Ongoing Commitment to Climate Action, pages 16 - 24
- A Comprehensive Approach to Protecting the Environment, pages 25 - 30
- KPIs: Environmental Performance and Emissions, page 83

■ **IF-EU-110a.4**

1. Number of customers served in markets subject to renewable portfolio standards (RPS)
2. Percentage fulfillment of RPS target by market

Renewable Portfolio Standards (RPS)			
	2023	2022	2021
Number of customers served in markets subject to renewable portfolio standards (RPS)	2	2	2
Percentage fulfillment of RPS target by market	100	100*	20

\* In 2022, value reported was 145 which represented the percentage achieved over goal.

## Air Quality

### ■ IF-EU-120a.1

Air emissions of the following pollutants:

- (1) NOx (excluding N2O)
- (2) SOx,
- (3) Particulate matter (PM10)
- (4) Lead (Pb)
- (5) Mercury (Hg); percentage of each in or near areas of dense population

NOx emissions (mt)			
	2023	2022	2021
Generating plants	N/A	N/A	N/A
Cogeneration plants	72	68	134
<b>Total</b>	<b>72</b>	<b>68</b>	<b>134</b>

Intensity of NOx emissions (kg/MWh)			
	2023	2022	2021
Specific emission from the global mix	0.003	0.000	0.001

SOx emissions (mt)			
	2023	2022	2021
Generating plants	N/A	N/A	N/A
Cogeneration plants	6	5	6
<b>Total</b>	<b>6</b>	<b>5</b>	<b>6</b>

Intensity of SOx emissions (kg/MWh)			
	2023	2022	2021
Specific emission from the global mix	0.0003	0.0000	0.0000

Emissions of particulates (mt)			
	2023	2022	2021
Generating plants	N/A	N/A	N/A
Cogeneration plants	23.86	16.56	21.00
<b>Total</b>	<b>23.86</b>	<b>16.56</b>	<b>21.00</b>

Intensity of particulate emissions (kg/MWh)			
	2023	2022	2021
Specific emission from the global mix	0.0010	0.0001	0.0001

## Water Management

### ■ IF-140a.1

Total water withdrawn, total water consumed; percentage of each in regions with high or extremely high baseline water stress

Water withdrawal, discharge and consumption (ALL AREAS)			
	2023	2022	2021
<b>Withdrawal by water source</b>			
<b>Surface water (river, lake, reservoir or wetland)</b>			
Fresh water	2.05	2.41	N/A
Other water	0.00	0.00	N/A
<b>Seawater</b>			
Fresh water	N/A	N/A	N/A
Other water	N/A	N/A	N/A
<b>Groundwater</b>			
Fresh water	14.24	12.88	12.88
Other water	0.00	0.00	0.00
<b>Third-party water</b>			
Fresh water	3,402.33	3,270.16	4,182.03
Other water	0.00	0.00	0.00
<b>Total water withdrawal</b>			
Fresh water	3,418.62	3,285.46	4,194.91
Other water	0.00	0.00	0.00
<b>Total All Areas</b>	<b>3,418.62</b>	<b>3,285.46</b>	<b>4,194.91</b>

Water withdrawal, discharge and consumption (WATER STRESS AREAS)			
	2023	2022	2021
<b>Withdrawal by water source</b>			
<b>Surface water (river, lake, reservoir or wetland)</b>			
Fresh water	N/A	N/A	N/A
Other water	N/A	N/A	N/A
<b>Seawater</b>			
Fresh water	N/A	N/A	N/A
Other water	N/A	N/A	N/A
<b>Groundwater</b>			
Fresh water	14.24	12.88	0.00
Other water	0.00	0.00	0.00
<b>Third-party water</b>			
Fresh water	0.17	0.16	0.00
Other water	0.00	0.00	0.00
<b>Total water withdrawal</b>			
Fresh water	14.41	13.04	0.00
Other water	0	0	0
<b>Total Water Stress Areas</b>			
	14.41	13.04	0.00

Water withdrawal, discharge and consumption (ALL AREAS)			
	2023	2022	2021
Water discharge by destination (ML)	1370.88	1347.10	1645.73
Water consumption (ML)	2047.74	1938.35	2549.18
<b>Total Consumption /Withdrawal (%)</b>	<b>60%</b>	<b>59%</b>	<b>61%</b>

#### ■ IF-EU-140a.2

Number of incidents of non-compliance associated with water quality permits, standards and regulations

Number of water-related incidents		
	2023	2022
Total	0	0

#### ■ IF-EU-140a.3

Description of water management risks and discussion of strategies and practices to mitigate those risks

See [Avangrid 2023 Sustainability Report](#)

- Recycled water in thermal gas generation Goal (page 6)
- Environment: Water Conservation Across Our Operations (page 36)
- Key Performance Indicators (page 84)

## Coal Ash Management

### ■ IF-EU-150a.1

Amount of coal combustion products (CCPs) generated and percentage recycled

Not applicable. Avangrid does not own or operate coal-fired power plants.

### ■ IF-EU-150a.2

Total number of coal combustion residual (CCR) impoundment, broken down by hazard potential classification and structural integrity assessment

Not applicable. Avangrid does not own or operate coal-fired power plants.

## Energy Affordability

### ■ IF-EU-240a.1

Average retail electric rate for residential, commercial, and industrial customers

Average retail electric rate in regulated markets (local currency/kWh)					
		2023	2022	2021	Metric
Avangrid Networks New York State Electric & Gas	Residential	0.1597	0.1562	0.1340	\$/KWh
	Industrial	0.0892	0.1121	0.0767	\$/KWh
	Commercial	0.1165	0.1416	0.1035	\$/KWh
Avangrid Networks Rochester Gas & Electric	Residential	0.1666	0.1634	0.1416	\$/KWh
	Industrial	0.1026	0.1329	0.0950	\$/KWh
	Commercial	0.1599	0.1918	0.1464	\$/KWh
Avangrid Networks Central Maine Power	Residential	0.2800	0.2257	0.1675	\$/KWh
	Industrial	0.1400	0.0643	0.0541	\$/KWh
	Commercial	0.2600	0.1356	0.1060	\$/KWh
Avangrid Networks United Illuminating	Residential	0.3232	0.2655	0.2477	\$/KWh
	Industrial	0.2994	0.2017	0.1877	\$/KWh
	Commercial	0.2699	0.1935	0.1743	\$/KWh



### ■ IF-EU-240a.2

Typical monthly electric bill for residential customers for 500 kW/h and 1,000 kW/h of electricity delivered per month.

Average retail electric rate in regulated markets (local currency/kWh)				
		2023	2022	2021
Avangrid Networks New York State Electric & Gas	500 kW/h	\$82.95	\$81.10	\$69.87
	1,000 kW/h	\$147.29	\$144.23	\$122.75
Avangrid Networks Rochester Gas & Electric	500 kW/h	\$87.15	\$85.61	\$74.69
	1,000 kW/h	\$150.72	\$147.89	\$126.34
Avangrid Networks Central Maine Power	500 kW/h	\$144.24	\$98.47	\$85.87
	1,000 kW/h	\$264.25	\$187.50	\$162.33
Avangrid Networks United Illuminating	500 kW/h	\$162.86	\$145.61	\$138.88
	1,000 kW/h	\$313.38	\$278.37	\$264.92

### ■ IF-EU-240a.3

Number of residential customer electric disconnections for non-payment, percentage reconnected within 30 days.

Residential disconnections (No.)			
	2023	2022	2021
Paid up to 48 h after disconnection	49,766	71,056	38,434
Paid between 48 h and one week after disconnection	3,899	2,993	1,088
Paid between one week and one month after disconnection	2,761	2,468	396
Paid between one month and one year	1,446	147	168
Paid after more than one year	—	—	—
Outstanding and unclassified	—	—	5,958
<b>Total</b>	<b>57,872</b>	<b>76,664</b>	<b>46,044</b>

Residential reconnections following payment of unpaid bills (No.)			
	2023	2022	2021
Less than 24 h after payment	34,432	36,665	39,483
Between 24 h and one week after payment	25,236	302	550
More than one week after payment	451	2,305	4
Unclassified	—	—	5,582
<b>Total</b>	<b>60,119</b>	<b>39,272</b>	<b>45,619</b>

#### ■ IF-EU-240a.4

Discussion of impact of external factors on customer affordability of electricity, including the economic conditions of the service territory

See [Avangrid 2023 Sustainability Report](#)

- Climate Action: Climate Strategy with a Customer Focus, page 18
- Climate Action: Value Chain Engagement and Low-Carbon Initiatives, page 19
- Social: Just Transition & Serving Our Customers, page 42

## Workforce Health & Safety

#### ■ IF-EU-320a.1

Total recordable incident rate (TRIR), fatality rate, and near miss frequency rate (NMFR)

Accident Rate for Own Staff			
	2023	2022	2021
<b>Number of accidents</b>			
Men	548	520	340
Women	56	60	32
<b>With leave</b>			
Men	38	49	38
Women	9	7	6
<b>With fatalities</b>			
Men	0	0	0
Women	0	0	0
<b>With major consequences</b>			
Men	1	13	1
Women	1	2	0
<b>Without Leave</b>			
Men	510	471	302
Women	47	53	26
<b>Number of hours worked</b>			
Men	11,879,034	11,382,182	10,929,386
Women	4,572,008	4,294,180	4,250,317
<b>Number of days lost</b>			
Men	1362	3505	1689
Women	642	705	115
<b>Injury Rate (IR)</b>			
Men	3.20	4.30	3.48
Women	1.97	1.63	1.41
<b>Severity Index</b>			
Men	0.11	0.31	0.15
Women	0.14	0.16	0.03

Rates of Work Related Injuries			
	2023	2022	2021
<b>Rate of fatalities</b>			
Men	0.00	0.00	0.00
Women	0.00	0.00	0.00
<b>Rate of work-related accidents with major consequences</b>			
Men	0.02	0.23	0.02
Women	0.04	0.09	0.00
<b>Injury rate per work-related accident</b>			
Men	2.68	3.34	2.98
Women	0.66	0.79	0.75

Accident rate (subcontracted staff)			
	2023	2022	2021
<b>Number of accidents</b>			
Men	115	100	131
Women	13	14	0
<b>With leave</b>			
Men	5	9	16
Women	1	0	0
<b>With major consequences</b>			
Men	1	0	0
Women	0	0	0
<b>With fatalities</b>			
Men	0	1	0
Women	0	0	0
<b>Without Leave</b>			
Men	110	91	115
Women	12	14	0
<b>Number of hours worked</b>	<b>10,632,298</b>	<b>10,767,210</b>	<b>9,370,348</b>
<b>Number of days lost</b>	<b>316</b>	<b>28</b>	<b>189</b>

Rates of work-related injuries (sub-contracted personnel)			
	2023	2022	2021
Rate of fatalities	0.000	0.019	0.000
Rate of work-related accidents with major consequences	0.019	0.000	0.000
Injury rate per work-related accident	0.959	0.762	1.110

Absenteeism among own personnel (missed hours)			
	2023	2022	2021
Occupational injury and disease	11,008	23,952	14,432
Common illness and Covid	247,079	293,252	297,818

## End Use Efficiency and Demand

### ■ IF-EU-420a.1

Percentage of electric utility revenues from rate structures that are decoupled and contain a lost revenue adjustment mechanism (LRAM)

Percentage of electric utility revenues from rate structures			
	2023	2022	2021
Decoupled	80	78	79
Contain a lost revenue adjustment mechanism (LRAM)	0	0	0

### ■ IF-EU-420a.2

Percentage of electric load served by smart grid technology

Percentage of electric load served by smart grid technology		
2023	2022	2021
46	55	54

### ■ IF-EU-420a.3

Customer electricity savings from efficiency measures, by market

Customer electricity savings from efficiency measures, by market (MWh)			
	2023	2022	2021
Avangrid Networks - NYSEG	150,407	125,948	81,253
Avangrid Networks - RGE	87,083	68,863	34,878
Avangrid Networks - UI	33,200	57,038	59,711
<b>Total</b>	<b>270,690</b>	<b>251,849</b>	<b>175,842</b>

## Nuclear Safety & Emergency Management

### ■ IF-EU-540a.1

Total number of nuclear power units, broken down by U.S. Nuclear Regulatory Commission (NRC) action matrix column

Not applicable. Avangrid does not own or operate nuclear power plants.

### ■ IF-EU-540a.2

Description of efforts to manage nuclear safety and emergency preparedness

Not applicable. Avangrid does not own or operate nuclear power plants.

## Grid Resiliency

### ■ IF-EU-550a.1

Number of incidents of non-compliance with physical and/or cybersecurity standards or regulations

Avangrid had no non-compliance for NERC Critical Infrastructure Protection (CIP) standards that resulted in physical security or cyber security events.

### ■ IF-EU-550a.2

System Average Interruption Duration Index (SAIDI), System Average Interruption Frequency Index (SAIFI), Customer Average Interruption Duration Index (CAIDI), inclusive of major event days 5

Indicators of frequency of interruptions				
		2023	2022	2021
Avangrid	SAIFI	1.24	1.27	1.42

Indicators of average duration of interruption				
		2023	2022	2021
Avangrid	CAIDI	1.79	1.75	1.87
	SAIDI	2.22	2.22	2.65

## Activity Metrics - Electric

### ■ IF-EU-000.A

Number of customers served

Electricity users (Millions)				
		2023	2022	2021
Avangrid Networks New York State Electric & Gas	Residential	792,523	789,414	787,715
	Industrial	1,535	1,596	1,651
	Commercial	124,477	124,082	123,651
	Other	1,115	1,117	1,118
Avangrid Networks Rochester Gas & Electric	Residential	350,548	349,585	347,851
	Industrial	651	678	706
	Commercial	39,955	40,199	40,835
	Other	480	485	477
Avangrid Networks Central Maine Power	Residential	587,190	582,200	577,521
	Industrial	1,804	1,923	2,043
	Commercial	74,706	73,113	71,119
	Other	560	559	557
Avangrid Networks United Illuminating	Residential	311,293	310,061	309,713
	Industrial	771	804	841
	Commercial	31,791	31,959	31,279
	Other	1,121	1,133	1,151
Total		2,320,520	2,308,908	2,298,228

Users that are producers of electricity				
		2023	2022	2021
Avangrid Networks New York State Electric & Gas		11,908	10,736	9,760
Avangrid Networks Rochester Gas & Electric		2,882	2,591	2,242
Avangrid Networks Central Maine Power		10,080	7,931	6,430
Avangrid Networks United Illuminating		21,650	18,977	17,127
Total		46,520	40,235	35,559

■ IF-EU-000.B

Total electricity delivered

Total electricity delivered (MWh)			
		2023	2022
Avangrid Networks New York State Electric & Gas	<i>Retail Customers</i>		
	Residential Customers	6,848,674	7,025,000
	Commercial Customers	5,764,776	5,601,000
	Industrial Customers	2,680,024	2,755,000
	Other Retail Customers	35,300	37,000
Avangrid Networks Rochester Gas & Electric	<i>Retail Customers</i>		
	Residential Customers	2,772,180	2,868,000
	Commercial Customers	3,049,819	3,092,000
	Industrial Customers	1,017,092	1,094,000
	Other Retail Customers	36,709	28,000
Avangrid Networks Central Maine Power	<i>Retail Customers</i>		
	Residential Customers	3,813,927	4,005,000
	Commercial Customers	3,177,419	3,247,000
	Industrial Customers	1,706,847	1,987,000
	Other Retail Customers	18,652	20,000
Avangrid Networks United Illuminating	<i>Retail Customers</i>		
	Residential Customers	2,051,960	2,183,000
	Commercial Customers	2,296,135	2,352,000
	Industrial Customers	378,607	385,000
	Other Retail Customers	21,634	22,000
<b>Total</b>		<b>35,669,755</b>	<b>36,701,000</b>

■ IF-EU-000.C

Length of transmission and distribution line

Transmission and Distribution Power Lines (Km)				
		2023	2022	2021
Avangrid Networks New York State Electric & Gas		<i>Transmission</i>		
	<b>Overhead</b>	7,303	7,303	7,303
	<b>Underground</b>	17	17	16
	<b>Total</b>	7,321	7,321	7,319
		<i>Distribution</i>		
	<b>Overhead</b>	63,931	63,931	62,556
	<b>Underground</b>	5,776	5,721	5,890
	<b>Total</b>	69,707	69,652	68,446

Transmission and Distribution Power Lines (Km) - continued				
		2023	2022	2021
Avangrid Networks Rochester Gas & Electric		<u>Transmission</u>		
	Overhead	1,286	1,285	1,285
	Underground	512	512	512
	Total	1,798	1,796	1,797
		<u>Distribution</u>		
	Overhead	14,157	14,075	13,575
	Underground	5,349	5,441	4,377
	Total	19,506	19,517	17,952
Avangrid Networks Central Maine Power		<u>Transmission</u>		
	Overhead	4,656	4,648	4,635
	Underground	30	30	30
	Total	4,686	4,678	4,665
		<u>Distribution</u>		
	Overhead	47,487	47,257	46,968
	Underground	5,675	5,524	4,988
	Total	53,163	52,780	51,956
Avangrid Networks United Illuminating		<u>Transmission</u>		
	Overhead	176	176	177
	Underground	46	46	47
	Total	223	223	224
		<u>Distribution</u>		
	Overhead	13,395	13,391	13,441
	Underground	2,114	2,106	2,244
	Total	15,509	15,497	15,685
Avangrid Networks TOTAL		<u>Transmission</u>		
	Overhead	13,422	13,412	13,400
	Underground	605	605	605
	Total	14,027	14,018	14,005
		<u>Distribution</u>		
	Overhead	138,971	138,654	136,540
	Underground	18,915	18,792	17,499
	Total	157,885	157,446	154,039



■ **IF-EU-000.D**

Total electricity generated, % by major energy source, percentage in regulated markets

Net electricity output by energy source (GWh)			
	2023	2022	2021
<b>Renewables</b>	20,176	20,188	19,400
Onshore wind	19,019	19,612	18,943
Hydro electric	245	188	132
Solar and other	912	388	325
<b>Combined Cycle</b>	6	7	7
<b>Cogeneration</b>	3,144	2,516	3,184
<b>Total</b>	<b>23,326</b>	<b>22,711</b>	<b>22,591</b>

# GAS

## Energy Affordability

### ■ IF-GU-240a.1

Average retail gas rate for residential, commercial, industrial customers, and transportation services only

Average retail gas rate				
		2023	2022	2021
Avangrid Networks Berkshire Gas	Residential	\$18.59	\$18.17	\$15.07
	Commercial	\$15.35	\$15.36	\$12.19
	Industrial	\$11.70	\$12.77	\$9.15
	Transportation	\$3.28	\$3.05	\$2.85
Avangrid Networks Connecticut Natural Gas	Residential	\$16.88	\$17.20	\$14.52
	Commercial	\$11.73	\$12.06	\$9.87
	Industrial	\$10.44	\$8.27	\$9.41
	Transportation	\$3.15	\$4.10	\$3.30
Avangrid Networks Maine Natural Gas	Residential	\$22.83	\$22.16	\$18.84
	Commercial	\$18.30	\$18.16	\$14.62
	Industrial	\$14.64	\$17.73	\$12.14
	Transportation	\$3.04	\$3.01	\$3.42
Avangrid Networks New York State Electric & Gas	Residential	\$11.60	\$12.73	\$10.21
	Commercial	\$10.04	\$11.44	\$9.01
	Industrial	\$6.12	\$9.03	\$6.21
	Transportation	\$1.86	\$1.87	\$1.64
Avangrid Networks Rochester Gas & Electric	Residential	\$9.79	\$10.76	\$10.70
	Commercial	\$8.17	\$9.09	\$7.00
	Industrial	\$5.10	\$7.74	\$5.10
	Transportation	\$1.16	\$1.06	\$1.02
Avangrid Networks Southern Connecticut Gas	Residential	\$17.25	\$17.46	\$14.89
	Commercial	\$10.65	\$11.41	\$9.72
	Industrial	\$9.73	\$14.54	\$9.93
	Transportation	\$3.54	\$4.31	\$3.35

### ■ IF-GU-240a.2

Typical monthly gas bill for natural gas delivered to residential customers.

Typical monthly gas bill for residential customers				
		2023	2022	2021
Avangrid Networks Berkshire Gas	50 MMBtu's	\$75.57	\$80.53	\$69.15
	100 MMBtu's	\$151.15	\$152.08	\$129.42
Avangrid Networks Connecticut Natural Gas	50 MMBtu's	\$81.70	\$86.23	\$69.77
	100 MMBtu's	\$137.88	\$146.16	\$112.78
Avangrid Networks Maine Natural Gas	50 MMBtu's	\$95.13	\$108.82	\$78.52
	100 MMBtu's	\$190.26	\$146.76	\$157.04
Avangrid Networks New York State Gas & Electric	50 MMBtu's	\$63.06	\$67.43	\$56.46
	100 MMBtu's	\$97.61	\$106.04	\$85.06
Avangrid Networks Rochester Gas & Electric	50 MMBtu's	\$50.36	\$54.08	\$44.55
	100 MMBtu's	\$81.58	\$89.67	\$71.62
Avangrid Networks Southern Connecticut Gas	50 MMBtu's	\$80.11	\$84.22	\$69.98
	100 MMBtu's	\$136.33	\$143.77	\$113.98

### ■ IF-GU-240a.3

Number of residential customer gas disconnections for non-payment, percentage reconnected within 30 days

Percentage of residential gas customers reconnected within 30 days after being disconnected for non-payment:

Percent (%)
2023
57

### ■ IF-GU-240a.4

Discussion of impact of external factors on customer affordability of gas, including the economic conditions of the service territory

See [Avangrid 2023 Sustainability Report](#)

- Business Focus on a Clean Energy Future: 2023 Networks, page 12
- Climate Action: Climate Strategy with a Customer Focus, page 18
- Climate Action: Value Chain Engagement and Low-Carbon Initiatives, page 19
- Social: Just Transition & Serving Our Customers, page 42

## End-Use Efficiency

### ■ IF-GU-420a.1

Percentage of gas utility revenues from rate structures that are decoupled and contain a lost revenue adjustment mechanism (LRAM)

Percentage of gas utility revenues from rate structures			
	2023	2022	2021
Decoupled	100	98	98
Contain a lost revenue adjustment mechanism (LRAM)	0	0	0

### ■ IF-GU-420a.2

Customer gas savings from efficiency measures, by market

Customer gas savings from efficiency measures, by market (MMBtu)			
	2023	2022	2021
Avangrid Networks Berkshire Gas	27,988	22,775	34,752
Avangrid Networks Connecticut Natural Gas	79,057	147,110	157,800
Avangrid Networks Maine Natural Gas	—	—	—
Avangrid Networks New York State Gas & Electric	450,912	70,808	51,662
Avangrid Networks Rochester Gas & Electric	315,234	123,231	100,743
Avangrid Networks Southern Connecticut Gas	94,499	130,117	196,157
<b>Total</b>	<b>967,690</b>	<b>494,041</b>	<b>541,114</b>

## Integrity of Gas Delivery Infrastructure

### ■ IF-GU-540a.1

Number reportable pipeline incidents, corrective actions received, and violations of pipeline safety statutes

Number of reportable pipeline incidents, corrective actions received and violations of pipeline safety statutes				
		2023	2022	2021
Avangrid Networks Berkshire Gas	Reportable pipeline incidents	0	0	N/A
	Corrective actions received	0	0	N/A
	Violations of pipeline safety statutes	11	0	N/A
Avangrid Networks Connecticut Natural Gas	Reportable pipeline incidents	0	0	0
	Corrective actions received	0	0	0
	Violations of pipeline safety statutes	7	8	1
Avangrid Networks Maine Natural Gas	Reportable pipeline incidents	0	0	N/A
	Corrective actions received	0	0	N/A
	Violations of pipeline safety statutes	0	3	N/A
Avangrid Networks New York State Gas & Electric	Reportable pipeline incidents	0	1	1
	Corrective actions received	0	0	0
	Violations of pipeline safety statutes	0	0	0
Avangrid Networks Rochester Gas & Electric	Reportable pipeline incidents	0	0	0
	Corrective actions received	0	0	0
	Violations of pipeline safety statutes	0	0	0
Avangrid Networks Southern Connecticut Gas	Reportable pipeline incidents	0	0	0
	Corrective actions received	0	0	0
	Violations of pipeline safety statutes	6	19	2
Total	Reportable pipeline incidents	0	1	1
	Corrective actions received	0	0	0
	Violations of pipeline safety statutes	24	30	3

■ IF-GU-540a.2

Percentage of distribution pipeline that is cast or wrought iron and unprotected steel

Percentage of distribution pipeline that is cast/wrought iron or unprotected steel				
		2023	2022	2021
Avangrid Networks Berkshire Gas	Cast/wrought iron	3	4.7	N/A
	Unprotected steel	4	3.8	N/A
Avangrid Networks Connecticut Natural Gas	Cast/wrought iron	6	11.2	11.9
	Unprotected steel	2	0.05	0.68
Avangrid Networks Maine Natural Gas	Cast/wrought iron	0	0	N/A
	Unprotected steel	0	0	N/A
Avangrid Networks New York State Gas & Electric	Cast/wrought iron	0	0.0007	0.114
	Unprotected steel	1	1.7	1.85
Avangrid Networks Rochester Gas & Electric	Cast/wrought iron	0	0	0
	Unprotected steel	0	1	1.06
Avangrid Networks Southern Connecticut Gas	Cast/wrought iron	13	22.2	23.3
	Unprotected steel	8	3.3	3.33

■ IF-GU-540a.3

Percentage of gas transmission and distribution pipelines inspected

Percentage of gas transmission and distribution pipelines inspected			
		2023	2022
Avangrid Networks Berkshire Gas	Transmission	0	N/A
	Distribution	0	N/A
Avangrid Networks Connecticut Natural Gas	Transmission	0	N/A
	Distribution	0	0
Avangrid Networks Maine Natural Gas	Transmission	0	100
	Distribution	100	100
Avangrid Networks New York State Gas & Electric	Transmission	24.5	0
	Distribution	33	33
Avangrid Networks Rochester Gas & Electric	Transmission	0	6.33
	Distribution	33	33
Avangrid Networks Southern Connecticut Gas	Transmission	0	N/A
	Distribution	0	0

■ **IF-GU-540a.4**

Description of efforts to manage the integrity of gas delivery infrastructure, including risks related to safety and emissions

See [Avangrid 2023 Sustainability Report](#)

- Climate Action: Climate Strategy with a Customer Focus, pages 18 - 19

## Activity Metrics - Gas

■ **IF-GU-000.A**

Number of gas customers served

Number of Gas Users		
	2023	2022
Avangrid Networks Berkshire Gas	40,644	40,760
Avangrid Networks Connecticut Natural Gas	187,790	186,227
Avangrid Networks Maine Natural Gas	6,136	5,935
Avangrid Networks New York State Gas & Electric	271,976	271,955
Avangrid Networks Rochester Gas & Electric	324,793	323,496
Avangrid Networks Southern Connecticut Gas	208,601	208,904
<b>Total</b>	<b>1,039,940</b>	<b>1,037,277</b>

■ IF-GU-000.B

Amount of natural gas delivered to: residential customers, commercial customers, industrial customers, and transferred to a third party.

Natural Gas Delivered			
		2023	2,022
Avangrid Networks Berkshire Gas	Amount of Natural Gas Delivered (MMBtu)	9,893,159	10,219,000
	% Delivered - Residential	29	30
	% Delivered - Commercial	21	22
	% Delivered - Industrial	49	48
	% Transferred to a 3rd-party	0	—
Avangrid Networks Connecticut Natural Gas	Amount of Natural Gas Delivered (MMBtu)	32,677,005	36,799,000
	% Delivered - Residential	50	48
	% Delivered - Commercial	38	37
	% Delivered - Industrial	5	5
	% Transferred to a 3rd-party	9	10
Avangrid Networks Maine Natural Gas	Amount of Natural Gas Delivered (MMBtu)	2,096,184	2,202,000
	% Delivered - Residential	19	19
	% Delivered - Commercial	47	47
	% Delivered - Industrial	2	2
	% Transferred to a 3rd-party	32	32
Avangrid Networks New York State Electric & Gas	Amount of Natural Gas Delivered (MMBtu)	52,445,058	55,590,000
	% Delivered - Residential	40	41
	% Delivered - Commercial	38	37
	% Delivered - Industrial	22	22
	% Transferred to a 3rd-party	0	—
Avangrid Networks Rochester Gas & Electric	Amount of Natural Gas Delivered (MMBtu)	54,434,921	58,884,000
	% Delivered - Residential	47	47
	% Delivered - Commercial	31	31
	% Delivered - Industrial	22	22
	% Transferred to a 3rd-party	0	—
Avangrid Networks Southern Connecticut Gas	Amount of Natural Gas Delivered (MMBtu)	34,292,687	36,031,000
	% Delivered - Residential	44	45
	% Delivered - Commercial	39	39
	% Delivered - Industrial	1	2
	% Transferred to a 3rd-party	17	14
Avangrid Networks TOTAL	Total Amount of Natural Gas Delivered (MMBtu)	185,839,014	199,725,000



■ IF-GU-000.C

Length of gas transmission and distribution pipelines.

Length of Gas Pipelines (Miles)				
		2023	2,022	2,021
Avangrid Networks Berkshire Gas	Transmission	—	—	—
	Distribution	1,139	770	770
	Total	1,139	770	770
Avangrid Networks Connecticut Natural Gas	Transmission	—	—	—
	Distribution	3,871	2,215	2,215
	Total	3,871	2,215	2,215
Avangrid Networks Maine Natural Gas	Transmission	2	2	2
	Distribution	324	231	231
	Total	326	233	233
Avangrid Networks New York State Electric & Gas	Transmission	20	20	20
	Distribution	8,527	8,486	8,452
	Total	8,547	8,506	8,472
Avangrid Networks Rochester Gas & Electric	Transmission	99	103	103
	Distribution	8,449	9,344	9,144
	Total	8,548	9,447	9,247
Avangrid Networks Southern Connecticut Gas	Transmission	—	—	—
	Distribution	4,242	2,513	2,511
	Total	4,242	2,513	2,511
Avangrid Networks TOTAL	Transmission	121	125	125
	Distribution	26,551	23,559	23,323
	Total	26,672	23,684	23,448