

## EEI ESG/Sustainability Template – Quantitative Information for Oklahoma Gas and Electric Company (OG&E)

**Parent Company:** *OGE Energy Corp.*  
**Operating Company(s):** *OG&E*  
**Business Type(s):** *Vertically Integrated Investor-Owned Utility*  
**State(s) of Operation:** *Oklahoma, Arkansas*  
**State(s) with RPS Programs:** *None*  
**Regulatory Environment:** *Regulated*  
**Report Date:** *10/18/2022*

|   | Baseline<br>2005<br><i>Actual</i> | Previous Year<br>2019<br><i>Actual</i> | Previous Year<br>2020<br><i>Actual</i> | Current Year<br>2021<br><i>Actual</i> | Comments, Links, Additional Information, and Notes   |
|---|-----------------------------------|--|--|---------------------------------------|--|
| <b>Portfolio</b>  |                                   |  |  |                                       |  |
| <b>1 Nameplate Generation Capacity at End of Year (MW)</b>  |                                   |  |  |                                       |  |
| 1.1 Owned Coal  | 2,569                             | 1,854                                  | 1,854                                  | 1,855                                 | Source of capacity data in this section: annual SEC Form 10-K  |
| 1.2 Owned Natural Gas - boiler  | 2,721                             | 3,102                                  | 3,130                                  | 3,211                                 |  |
| 1.3 Owned and Operated Natural Gas - combined cycle   | 696                               | 1,817                                  | 1,815                                  | 1,815                                 | Combined cycle capacity includes 100% of the capacity for the two plants in which OG&E owns an interest and is the operating partner (McClain and Redbud)  |
| 1.4 Owned Natural Gas - quick start turbines  | 243                               | 551                                    | 553                                    | 553                                   |  |
| 1.5.4 Owned Solar   | 0                                 | 12                                     | 22                                     | 32                                    | See additional note 1 below  |
| 1.5.5 Owned Wind  | 0                                 | 449                                    | 449                                    | 449                                   |  |
| 1.5.6 Purchased Wind - OG&E PPA   | 50                                | 342                                    | 342                                    | 342                                   |  |
| <b>2.i Owned Generation for the Data Year (MWh)</b>   | 30,945,579                        | 21,952,321                             | 22,106,990                             | 19,777,557                            |  |
| 2.1.i Owned Coal  | 20,709,911                        | 5,295,309                              | 5,032,788                              | 7,585,648                             | Data in this section contains gross generation as measured by 40 CFR 75 continuous emission monitoring systems (CEMS) for fossil-fueled facilities; for wind and solar, data is from EIA or the NERC Generating Availability Data System (GADS)                    |
| 2.2.i Owned and Operated Natural Gas  | 10,235,668                        | 15,215,123                             | 15,706,711                             | 11,039,137                            |  |
| 2.5.i Total Renewable Energy Resources  |                                   | 1,441,889                              | 1,367,491                              | 1,152,772                             |  |
| 2.5.4.i Solar   | NA                                | 26,544                                 | 35,477                                 | 46,963                                | See additional note 1 below  |
| 2.5.5.i Wind  | NA                                | 1,415,345                              | 1,332,014                              | 1,105,809                             |  |
| <b>2.ii Purchased Net Generation from RTO for the Data Year (MWh)</b>                               | 3,300,000                         | 14,000,000                             | 12,900,000                             | 14,600,000                            | Purchased net generation data from SEC 10-K; fuel split percentages are based on annual statistics for the SPP Integrated Market.  |
| 2.1.i Coal - market   | NA                                | 1,680,000                              | 2,167,200                              | 3,609,120                             |  |
| 2.1.ii Coal - self commit   | NA                                | 3,220,000                              | 1,831,800                              | 1,676,080                             | OG&E does not self commit units as part of normal operational practice   |
| 2.2.ii Natural Gas  | NA                                | 3,654,000                              | 3,444,300                              | 2,950,660                             |  |
| 2.3.ii Nuclear  | NA                                | 840,000                                | 825,600                                | 840,960                               |  |
| 2.5.ii Total Renewable Energy Resources   | NA                                | 3,878,000                              | 4,076,400                              | 5,072,040                             |  |
| 2.5.3.ii Hydroelectric  | NA                                | 784,000                                | 567,600                                | 541,660                               |  |
| 2.6.ii Other  | NA                                | 12,600                                 | 10,320                                 | 14,600                                |  |
| <b>2.7 Bi-lateral Purchased Power Agreements</b>  |                                   |  |  |                                       |  |
| 2.7i Purchased Wind - OG&E PPA  | 159,021                           | 1,111,074                              | 1,120,107                              | 968,506                               | PPA wind MWh data is from EIA or the NERC Generating Availability Data System (GADS)   |
| <b>3 Investing in the Future: Capital Expenditures, Energy Efficiency (EE), and Smart Meters</b>    |                                   |  |  |                                       |  |
| 3.1 Total Annual Capital Expenditures (nominal dollars)   | \$249,100,000                     | \$635,500,000                          | \$650,500,000                          | \$778,500,000                         | Data from annual SEC Form 10-K Consolidated Statement of Cash Flows  |
| 3.2 Total Annual Capital Expenditures (nominal dollars) - Electric Vehicles                         | NA                                | \$1,249,234                            | \$923,185                              | \$1,005,382                           | Includes vehicles, charging equipment, E-PTO, research for utility-scale battery pilot to manage EVSE rapid charging loads   |
| 3.3 Incremental Annual Investment in Electric EE Programs (nominal dollars)                         | NA                                | \$42,300,000                           | \$40,800,000                           | \$41,955,000                          | From Oklahoma Demand Programs Annual Report and Arkansas Energy Efficiency Program Portfolio Annual Report   |
| 3.4 Incremental Annual Electricity Savings from EE Measures (net MWh)                               | NA                                | 185,776                                | 196,589                                | 199,497                               | Net MWh from Oklahoma Demand Programs Annual Report and Arkansas Energy Efficiency Program Portfolio Annual Report   |
| 3.5 Incremental Annual Investment in Demand Response Measures (nominal dollars)                     | NA                                | \$1,787,779                            | \$1,127,728                            | \$563,262                             | See additional note 11 below   |
| 3.6 Incremental Annual Electricity Savings from Demand Response Measures (MWh)                      | NA                                | 10,179                                 | 12,036                                 | 11,775                                | See additional note 8 below  |
| 3.7 Percent of Total Electric Customers with Smart Meters (at end of year)                          | NA                                | 100%                                   | 100%                                   | 100%                                  | See additional note 8 below  |
| <b>4 Retail Electric Customer Count (at end of year)</b>  |                                   |  |  |                                       |  |
| 4.1 Commercial  | 80,786                            | 98,565                                 | 100,200                                | 103,337                               | Source for values in this section: annual SEC Form 10-K  |
| 4.2 Industrial  | 9,420                             | 2,965                                  | 2,710                                  | 2,585                                 |  |
| 4.3 Residential   | 630,736                           | 731,797                                | 740,174                                | 749,091                               |  |
| <b>Emissions</b>  |                                   |  |  |                                       |  |
| <b>5 GHG Emissions: Carbon Dioxide (CO2) and Carbon Dioxide Equivalent (CO2e)</b>                   |                                   |  |  |                                       | <i>When considering sections 5.1 - 5.3, note that emissions from power purchased from the Southwest Power Pool Integrated Market should not be combined with emissions and/or generation from OG&amp;E owned and operated facilities. Please see note 2 below.</i> |
| <b>5.1 Owned and Operated Generation for the Data Year</b>  |                                   |  |  |                                       |  |
| 5.1.1 Carbon Dioxide (CO2)  |                                   |  |  |                                       |  |
| 5.1.1.1 Total Owned Generation CO2 Emissions (Metric Tons)  | 23,992,763                        | 12,083,273                             | 12,287,671                             | 12,464,780                            | Source: EPA Air Markets Program records of monitored emissions.  |
| 5.1.1.2 Total Owned Generation CO2 Emissions Intensity (Metric Tons/Gross MWh)                      | 0.775                             | 0.550                                  | 0.556                                  | 0.630                                 | Data in this section includes 100% of emissions for the two plants in which OG&E owns an interest and is the operating partner (McClain and Redbud)  |
| 5.1.2 Carbon Dioxide Equivalent (CO2e)  |                                   |  |  |                                       | Rates in this section are per gross MWh, including owned-renewables  |
| 5.1.2.1 Total Owned Generation CO2e Emissions (Metric Tons)   | 24,118,609                        | 12,130,523                             | 12,333,768                             | 12,526,200                            | See additional note 3 below  |
| 5.1.2.2 Total Owned Generation CO2e Emissions Intensity (Metric Tons/Gross MWh)                     | 0.779                             | 0.553                                  | 0.558                                  | 0.633                                 |  |
| <b>5.2 Owned and Operated Generation and Bi-lateral Wind PPA for the Data Year</b>                  |                                   |  |  |                                       |  |
| 5.2.1 Carbon Dioxide (CO2)  |                                   |  |  |                                       |  |
| 5.2.1.1 Total Owned, Operated, PPA Wind Generation CO2 Emissions (Metric Tons)                      | 23,992,763                        | 12,083,273                             | 12,287,671                             | 12,464,780                            | Source: EPA Air Markets Program records of monitored emissions.  |
| 5.2.1.2 Total Owned, Operated, PPA Wind Generation CO2 Emissions Intensity (Metric Tons/Gross MWh)  | 0.771                             | 0.524                                  | 0.529                                  | 0.601                                 | Data in this section includes 100% of emissions for the two plants in which OG&E owns an interest and is the operating partner (McClain and Redbud)  |
| 5.2.2 Carbon Dioxide Equivalent (CO2e)  |                                   |  |  |                                       | Rates in this section are per gross MWh, including owned-renewables and wind purchased power agreements listed above   |
| 5.2.2.1 Total Owned, Operated, PPA Wind Generation CO2e Emissions (Metric Tons)                     | 24,118,609                        | 12,130,523                             | 12,333,768                             | 12,526,200                            | See additional note 3 below  |
| 5.2.2.2 Total Owned, Operated, PPA Wind Generation CO2e Emissions Intensity (Metric Tons/Gross MWh) | 0.775                             | 0.526                                  | 0.531                                  | 0.604                                 |  |
| <b>5.3 Power Purchased from the Southwest Power Pool Integrated Market</b>                          |                                   |  |  |                                       |  |
| 5.3.1 Carbon Dioxide (CO2) from Southwest Power Pool (SPP)  |                                   |  |  |                                       | <i>Please see note 2 below.</i>  |
| 5.3.1.1 Total Purchased Generation CO2 Emissions (Metric Tons)                                      | NA                                | 6,363,001                              | 5,863,051                              | 6,170,805                             | 2019 - 2021 emissions derived as: total purchased net MWh from SEC Form 10-K multiplied by EPA eGRID emission factor for the SPP - South (SPSO)  |
| 5.3.1.2 Total Purchased Generation CO2 Emissions Intensity (Metric Tons/MWh)                        | NA                                | 0.455                                  | 0.455                                  | 0.423                                 | 2019 and 2020 based on eGRID2019; 2021 based on eGRID2020  |
| 5.3.2 Carbon Dioxide Equivalent (CO2e) from Southwest Power Pool                                    |                                   |  |  |                                       | eGRID emission factor not available for 2005, therefore emissions are not available  |
| 5.3.2.1 Total Purchased Generation CO2e Emissions (Metric Tons)                                     | NA                                | 6,392,848                              | 5,890,553                              | 6,197,295                             |  |
| 5.3.2.2 Total Purchased Generation CO2e Emissions Intensity (Metric Tons/MWh)                       | NA                                | 0.457                                  | 0.457                                  | 0.424                                 |  |

|            |  |          |           |           |           |  |
|------------|--|----------|-----------|-----------|-----------|--|
| <b>5.4</b> | <b>Non-Generation CO2e Emissions</b>   |          |           |           |           |  |
| 5.4.1      | Fugitive CO2e emissions of sulfur hexafluoride (Metric Tons)                   | 137,062  | 43,771    | 32,903    | 63,169    | Source: GHG emissions records as reported to EPA under the mandatory GHG Reporting Protocols (40 CFR Part 98, Subpart DD)                      |
| <b>5.5</b> | <b>Avoided Carbon Dioxide Emissions (MT) - Company Operations and Programs</b> |          |           |           |           |  |
| 5.5.1      | Annual Avoided CO2 Emissions from RTO (SPP) Participation (Metric Tons)        | NA       | 1,343,055 | 1,307,123 | 3,030,827 |  |
| 5.5.2      | Incremental Annual CO2e Avoided with Electric Vehicles (Metric Tons)           | NA       | 13        | 18        | 4         | Avoided emissions reflects EV use in place of gasoline light-duty vehicles. OG&E plans to electrify the company's light duty vehicles by 2030. |
| 5.5.3      | Incremental Annual CO2 Avoided from EE Measures (Metric Tons)                  | NA       | 102,685   | 112,370   | 125,733   | From Oklahoma Demand Programs Annual Report  |
| 5.5.4      | Incremental Annual CO2 Avoided from Demand Response Measures (Metric Tons)     | NA       | 5,603     | 6,690     | 7,421     | See additional note 8 below  |
| <b>6</b>   | <b>Nitrogen Oxide (NOx), Sulfur Dioxide (SO2), Mercury (Hg)</b>                |          |           |           |           |  |
| 6.1        | Generation basis for calculation   | Total    |           |           |           | Rates are per gross MWh, including renewables  |
| <b>6.2</b> | <b>Nitrogen Oxide (NOx)</b>  |          |           |           |           |  |
| 6.2.1      | Total NOx Emissions (Metric Tons)  | 35,690   | 7,608     | 9,404     | 10,362    | Source: EPA Air Markets Program records of monitored emissions for OG&E-owned and operated facilities  |
| 6.2.2      | Total NOx Emissions Intensity (Metric Tons/Gross MWh)                          | 0.0012   | 0.0003    | 0.0004    | 0.0005    | Rates are per gross MWh, including renewables<br>See additional note 3 below   |
| <b>6.3</b> | <b>Sulfur Dioxide (SO2)</b>  |          |           |           |           |  |
| 6.3.1      | Total SO2 Emissions (Metric Tons)  | 45,777   | 2,507     | 3,936     | 7,012     | Source: EPA Air Markets Program records of monitored emissions for OG&E-owned and operated facilities  |
| 6.3.2      | Total SO2 Emissions Intensity (Metric Tons/Gross MWh)                          | 0.0015   | 0.0001    | 0.0002    | 0.0004    | Rates are per gross MWh, including renewables<br>See additional note 3 below   |
| <b>6.4</b> | <b>Particulate Matter (PM10)</b>   |          |           |           |           |  |
| 6.4.1      | Total PM10 Emissions (Metric Tons)   | NA       | 1,328     | 1,323     | 1,548     | Source: ODEQ annual emission inventory for OG&E-owned and operated facilities  |
| 6.4.2      | Total PM10 Emissions Intensity (Metric Tons/Gross MWh)                         | NA       | 0.0001    | 0.0001    | 0.0001    | Rates are per gross MWh, including renewables  |
| <b>6.5</b> | <b>Mercury (Hg)</b>  |          |           |           |           |  |
| 6.5.1      | Total Hg Emissions (kg)  | 240      | 25        | 20        | 22        | Source: EPA TRI annual Form R Report; 2005 data is for Sooner and Muskogee facilities  |
| 6.5.2      | Total Hg Emissions Intensity (kg/Gross MWh)                                    | 0.000008 | 0.000001  | 0.000001  | 0.000001  | Rates are per gross MWh, including renewables<br>See additional note 4 below   |
| <b>6.6</b> | <b>Lead (Pb)</b>   |          |           |           |           |  |
| 6.6.1      | Total Pb Emissions (kg)  | 458      | 51        | 40        | 49        | Source: EPA TRI annual Form R Report; 2005 data is for Sooner and Muskogee facilities  |
| 6.6.2      | Total Pb Emissions Intensity (kg/Gross MWh)                                    | 0.000015 | 0.000002  | 0.000001  | 0.000002  | Rates are per gross MWh, including renewables<br>See additional note 4 below   |

## Resources

|            |  |                 |                |                |                |  |
|------------|--|-----------------|----------------|----------------|----------------|--|
| <b>7</b>   | <b>Human Resources</b>   |                 |                |                |                |  |
| 7.1        | Total Number of Employees  | 3,044           | 2,425          | 2,360          | 2,185          | Source of employee count: annual SEC Form 10-K; source of Board composition: OGE 2022 Proxy Statement  |
| 7.1.1      | Percentage of Women in Total Workforce                               | ---             | ---            | 18             | 17             | See additional note 6 related to employee demographics.  |
| 7.1.2      | Percentage of Minorities Total Workforce                             | ---             | ---            | 24             | 24             |  |
| 7.2        | Total Number on Board of Directors/Trustees                          | 10              | 10             | 10             | 9              | 2021 value reflects the nine Directors re-elected to the board in 2022   |
| 7.3        | Percentage of Women on Board of Directors/Trustees                   | 10              | 20             | 20             | 22             | 2021 value reflects the nine Directors re-elected to the board in 2022   |
| 7.4        | Percentage of Minorities on Board of Directors/Trustees              | 0               | 10             | 10             | 11             | 2021 value reflects the nine Directors re-elected to the board in 2022   |
| <b>7.5</b> | <b>Employee Safety Metrics</b>                                       |                 |                |                |                | Source of historical safety metrics: filed OSHA 300a records   |
| 7.5.1      | Recordable Incident Rate   | 2.51            | 0.89           | 0.68           | 0.47           |  |
| 7.5.2      | Lost-time Case Rate  | 0.75            | 0.44           | 0.25           | 0.19           |  |
| 7.5.3      | Days Away, Restricted, and Transfer (DART) Rate                      | 1.68            | 0.58           | 0.38           | 0.23           |  |
| 7.5.4      | Work-related Fatalities  | 0.00            | 0.00           | 0.00           | 0.00           |  |
| <b>8</b>   | <b>Fresh Water Resources</b>   |                 |                |                |                |  |
| 8.1        | Water Withdrawals - Consumptive (Liters)                             | 29,591,130,000  | 5,787,265,000  | 10,480,665,000 | 12,021,160,000 | The methodology for determining consumption has been revised in 2022 for all years presented. See additional note 5 below.   |
| 8.2        | Water Withdrawals - Non-consumptive (Liters)                         | 159,927,605,000 | 64,246,590,000 | 77,036,105,000 | 66,180,725,000 |  |
| 8.3        | Water Use Intensity - Consumptive (Liters/Gross MWh)                 | 1,412           | 265            | 473            | 609            | Baseline data in this section is from 2008. See additional note 5 below.   |
| 8.4        | Water Use Intensity Non-consumptive (Liters/Gross MWh)               | 6,219           | 2,407          | 3,486          | 3,346          |  |
| <b>8.5</b> | <b>Fresh Water Avoided - Company Operations and Programs</b>         |                 |                |                |                |  |
| 8.5.1      | Annual Avoided Freshwater use from Generation (Liters)               | 4,979,187,194   | 9,866,607,106  | 9,737,041,595  | 7,211,939,000  | McClain and Redbud combined-cycle plants (~1,800 MW total) do not use fresh water, only treated municipal effluent. See additional note 9 below.                       |
| 8.5.2      | Annual Freshwater Use Avoided RTO (SPP) Participation (Liters)       | NA              | 3,709,300,000  | 6,103,312,500  | 8,897,021,000  |  |
| 8.5.3      | Annual Freshwater Use Avoided from Demand Response Measures (Liters) | NA              | 2,696,984      | 5,694,760      | 7,175,265      |  |
| <b>9</b>   | <b>Waste Products</b>  |                 |                |                |                |  |
| 9.1        | Coal Combustion Products Generated (Metric Tons)                     | 469,939         | 145,435        | 127,835        | 177,024        | Fly ash and bottom ash.  |
| 9.2        | Percent of Coal Combustion Products Beneficially Used                | 65%             | 97%            | 96%            | 95%            | Beneficial use is three-year average (2019 - 2021) for Sooner and Muskogee Fly Ash and Bottom Ash. Please see additional note 7 below. Earliest baseline data is 2008. |
| 9.3        | Hazardous Waste Generation (pounds)                                  | NA              | 3,118          | 4,435          | 2,263          | OGE is classified by US EPA as a Small Quantity Generator with respect to hazardous solid waste generation. Please see additional note 10 below.                       |

### Additional notes

- Solar capacity and generation includes the Mustang Energy Center (online in late 2016) the Covington Solar Farm (online in 2018), the Choctaw and Chickasaw Nations' facilities (online in 2020), Branch Solar (online in 2021), and Butterfield (aka, Durant 2 - online in 2022).
- Note that emissions from power purchased from the Southwest Power Pool (SPP) Integrated Marketplace and OG&E-owned and operated facilities should not be combined. The SPP Integrated Marketplace functions as a centralized dispatch, where market participants throughout a 14-state region in the central United States, including OG&E, submit offers to sell power to the SPP from their resources and bid to purchase power from the SPP for their customers. The SPP Integrated Marketplace is intended to allow the SPP to optimize supply offers and demand bids based upon reliability and economic considerations and to determine which generating units will run at any given time for maximum cost-effectiveness within the SPP area. As a result, the generating units OG&E owns and operates produce output that is different from OG&E's customer consumption. Therefore, the emission profile for the generating units OG&E owns and operates and has wind PPAs with is different than the emission profile for electricity consumed by OG&E's customers.
- CO2 emissions in 2021 are reduced by 48% from 2005; NOx emissions in 2021 are reduced by 71% from 2005; SO2 emissions in 2021 are reduced by 85% from 2005. Annual emissions reflect the addition of SO2 emission control equipment at the Sooner facility and the conversion of Muskogee units 4 and 5 to natural gas
- Mercury emissions in 2021 are reduced by 91% from 2005; Lead emissions in 2021 are reduced by 89% from 2005. In 2016, OG&E installed mercury emission monitoring systems
- The methodology for determining water consumption was revised in 2022 to more accurately reflect water consumed in the power production process. Formerly, EIA data, which includes consumptive losses due to atmospheric evaporation and not actual cooling, was used. The revised methodology does not include Seminole, Sooner, and Horseshoe Units 6 & 7, all of which use once-through cooling systems, and includes River Valley and Frontier in 2005. Note that historic flooding in the vicinity of the Muskogee power plant in 2019 rendered the facility inoperable for a period of time during the peak summer load season, significantly reducing water consumption.
- Employee age ranges as of 12/31/2021: under 30 = 238; ages 30-50 = 1219; over 50 = 728. Voluntary annual turnover rate for 2021 was 3.9% and an additional 7.6% was related to retirements; 2020 voluntary turnover was 2.2% and 3.5% was related to retirements; 2019 voluntary turnover was 3.6% and an additional 2.0% was related to retirements.
- In 2021, River Valley became OG&E's third power plant to enter an agreement to have its Fly Ash reused in road base construction and cement production. Delays associated with the remediation contract resulted in much of the ash not being reused during 2021. Consequently, OG&E added two additional beneficial use outlets for River Valley's ash. OG&E remains committed to a strategy of pursuing beneficial use opportunities for all ash generated at River Valley.
- Implemented 100 percent deployment of smart meters with OG&E SmartHours™ program. The program enables and empowers customers to manage their usage, reducing annual capacity and energy demand on the grid and avoiding the associated emissions. Emissions avoided are based on the OG&E owned and operated CO2 emission rate given above multiplied by the average avoided electricity consumption of customers participating in the SmartHours™ program.
- Note that avoided water use in 2005 appears comparatively low – this is because the Redbud facility experienced relatively low demand in 2005.
- Most OGE facilities are Very Small Quantity Generators (VSQG) which are defined by the US EPA as generating no more than 100 kg (220 lb) of hazardous solid waste per month. Waste from VSQGs is consolidated at a central facility which is a Small Quantity Generator, defined by EPA as generating no more than 1000 kg (2,200 lb) of hazardous waste per month.
- Since its inception, OG&E has invested over \$68 million in its SmartHours™ demand response program plus \$230 million for smart meters and other technology to support the the Smart Hours program. Smart Hours now supports customer use of their own technology of choice and no longer includes company owned assets/programmable thermostats.