Table CO2.T4. Industrial sector CO2 emissions estimates from energy consumption, 1960-2023, Utah (million metric tons of carbon dioxide (CO2))

Year Coal Natural gas a Petroleum b Total 1980 6.5 1.8 2.5 10.8 1985 5.6 2.7 3.1 11.4 1970 6.0 3.0 2.9 11.9 1975 5.9 2.7 4.3 11.9 1980 4.6 2.9 3.4 10.9 1985 4.1 2.6 1.7 8.3 1996 4.5 3.1 2.1 9.7 1995 4.4 3.8 2.0 10.2 1996 3.7 3.7 2.2 9.6 1997 4.1 3.7 2.3 10.0 1998 5.3 3.9 2.2 11.4 1999 3.5 3.5 2.1 9.1 2000 5.0 3.5 2.0 10.5 2011 4.1 2.9 2.3 9.3 2002 1.3 2.6 2.3 6.3					
1960 6.5 1.8 2.5 10.8 11.4 1970 6.0 3.0 2.9 11.9 1975 5.9 2.7 4.3 13.0 1980 4.6 2.9 3.4 10.9 1985 4.1 2.6 1.7 8.3 1990 4.5 3.1 2.1 9.7 1995 4.4 3.8 2.0 10.2 1996 3.7 3.7 3.7 2.2 9.9 1996 3.7 3.7 3.7 2.2 9.9 1998 3.5 3.5 3.5 2.1 9.9 3.5 2.1 9.9 1999 3.5 3.5 3.5 2.1 9.1 9.9 2.0 10.2 1999 3.5 2.0 10.0 10.5 2.0 1.3 2.6 2.3 9.3 2.0 2.0 10.5 2.0 10.5 2.0 1.3 2.5 2.5 2.7 6.6 2.3 6.3 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	Year	Coal	Natural das ^a	Petroleum ^b	Total
1970 6.0 3.0 2.9 11.9 1975 5.9 2.7 4.3 19.9 1980 4.6 2.9 3.4 10.9 1985 4.1 2.6 1.7 8.3 1990 4.5 3.1 2.1 9.7 1995 4.4 3.8 2.0 10.2 1997 4.1 3.7 2.2 9.6 1998 3.5 3.9 2.2 11.4 1999 3.5 3.5 2.1 9.1 2000 5.0 3.5 2.0 15.2 2001 4.1 2.9 2.3 8.3 2002 1.3 2.6 2.3 6.3 2002 1.3 2.6 2.3 6.3 2003 1.3 2.6 2.3 6.3 2004 2.6 2.5 2.7 6.6 2004 2.6 2.5 2.7 6.6 2005 3.1 2.5 3.2 8.9 2006 1.5 2.9 3.5 2.9 7.7 2009 1.5 2.8 2.4 6.7 2010 1.6 3.0 2.4 6.7	1001	Cour	Tractar ar guo	1 ou oloum	10141
1970 6.0 3.0 2.9 11.9 1975 5.9 2.7 4.3 19.9 1980 4.6 2.9 3.4 10.9 1985 4.1 2.6 1.7 8.3 1990 4.5 3.1 2.1 9.7 1995 4.4 3.8 2.0 10.2 1997 4.1 3.7 2.2 9.6 1998 3.5 3.9 2.2 11.4 1999 3.5 3.5 2.1 9.1 2000 5.0 3.5 2.0 15.2 2001 4.1 2.9 2.3 8.3 2002 1.3 2.6 2.3 6.3 2002 1.3 2.6 2.3 6.3 2003 1.3 2.6 2.3 6.3 2004 2.6 2.5 2.7 6.6 2004 2.6 2.5 2.7 6.6 2005 3.1 2.5 3.2 8.9 2006 1.5 2.9 3.5 2.9 7.7 2009 1.5 2.8 2.4 6.7 2010 1.6 3.0 2.4 6.7	1960	6.5	1.8	25	10.8
1970 6.0 3.0 2.9 11.9 1975 5.9 2.7 4.3 19.9 1980 4.6 2.9 3.4 10.9 1985 4.1 2.6 1.7 8.3 1995 4.4 3.8 2.0 10.2 1996 3.7 3.7 2.2 9.6 1997 4.1 3.7 2.3 10.0 1998 5.3 3.9 2.2 11.4 1999 3.5 3.5 2.1 9.1 2000 5.0 3.5 2.0 15. 2001 4.1 2.9 2.3 8.3 2002 1.3 2.6 2.3 6.3 2002 1.3 2.6 2.3 6.3 2004 2.6 2.5 2.7 6.6 2004 2.6 2.5 2.7 6.8 2005 3.1 2.5 3.2 8.9 2006 3.1 2.9 3.5 7.9 2007 2.0 3.1 3.1 3.1 8.1 2009 1.5 2.8 2.4 6.7 2010 1.6 3.0 2.4 6.7	1965	5.6	2.7	3.1	11.4
1980 4.6 2.9 3.4 10.9 1985 4.1 2.6 1.7 8.3 1995 4.4 3.8 2.0 10.2 1996 3.7 3.7 2.2 9.5 1997 4.1 3.7 2.3 10.0 1998 5.3 3.9 2.2 11.4 1999 3.5 3.5 2.1 9.1 2000 5.0 3.5 2.0 10.5 2001 4.1 2.9 2.3 9.3 2002 1.3 2.6 2.3 9.3 2002 1.3 2.6 2.3 9.3 2003 1.3 2.6 2.3 6.3 2004 2.6 2.5 2.7 6.6 2005 3.1 2.5 2.7 6.8 2006 1.5 2.9 3.5 7.9 2007 2.0 3.1 3.1 8.1 2009 1.5 2.9 2.9 7.7 201 1.6 3.0 <t< td=""><td>1970</td><td>6.0</td><td>3.0</td><td>2.9</td><td>11.9</td></t<>	1970	6.0	3.0	2.9	11.9
1990 45 3.1 2.1 9.7 1996 3.7 3.7 2.2 9.6 1997 4.1 3.7 2.3 10.0 1998 5.3 3.9 2.2 11.4 1999 3.5 3.5 2.1 9.1 2000 5.0 3.5 2.0 10.5 2001 4.1 2.9 2.3 9.3 2002 1.3 2.6 2.3 6.3 2003 1.3 2.6 2.3 6.3 2004 2.6 2.5 2.6 2.8 2005 3.1 2.5 3.2 8.9 2006 1.5 2.9 3.5 7.9 2007 2.0 3.1 3.1 3.1 8.1 2008 1.5 2.9 3.5 7.7 2009 1.5 2.9 3.5 7.7 7.2 2010 1.6 3.0 2.4 7.0 2011 1.3 3.2 2.9 7.7 7.2 2012 1.3 3.2 2.9 7.7 7.2 2013 1.4 3.9 2.9 2.9 7.7 2014 1.3 </td <td>1975</td> <td>5.9</td> <td>2.7</td> <td>4.3</td> <td>13.0</td>	1975	5.9	2.7	4.3	13.0
1990 45 3.1 2.1 9.7 1996 3.7 3.7 2.2 9.6 1997 4.1 3.7 2.3 10.0 1998 5.3 3.9 2.2 11.4 1999 3.5 3.5 2.1 9.1 2000 5.0 3.5 2.0 10.5 2001 4.1 2.9 2.3 9.3 2002 1.3 2.6 2.3 6.3 2003 1.3 2.6 2.3 6.3 2004 2.6 2.5 2.6 2.8 2005 3.1 2.5 3.2 8.9 2006 1.5 2.9 3.5 7.9 2007 2.0 3.1 3.1 3.1 8.1 2008 1.5 2.9 3.5 7.7 2009 1.5 2.9 3.5 7.7 7.2 2010 1.6 3.0 2.4 7.0 2011 1.3 3.2 2.9 7.7 7.2 2012 1.3 3.2 2.9 7.7 7.2 2013 1.4 3.9 2.9 2.9 7.7 2014 1.3 </td <td>1980</td> <td>4.6</td> <td>2.9</td> <td>3.4</td> <td>10.9</td>	1980	4.6	2.9	3.4	10.9
1995 4.4 3.8 2.0 102 1997 4.1 3.7 3.7 2.3 10.0 1998 5.3 3.9 2.2 11.4 2000 5.0 3.5 2.1 9.1 2001 4.1 2.9 2.3 9.3 2002 1.3 2.6 2.3 9.3 2003 1.3 2.6 2.3 6.3 2004 2.6 2.5 2.7 6.6 2005 3.1 2.5 2.6 7.8 2006 1.5 2.9 3.5 7.9 2007 2.0 3.1 3.1 8.1 2008 1.9 2.9 2.9 7.7 2010 1.6 3.0 2.4 7.0 2011 1.3 3.2 2.7 7.2 2010 1.6 3.0 2.4 7.0 2011 1.3 3.2 2.7 7.7 2012 1.3 3.2 2.7 7.7 2013 1.4 3.9 2.9 8.2 2014 1.3 3.7 3.0 8.0 2015 1.4 3.9 2.9 7.7 <tr< td=""><td>1985</td><td>4.1</td><td>2.6</td><td>1.7</td><td>8.3</td></tr<>	1985	4.1	2.6	1.7	8.3
1996 3.7 3.7 2.2 9.6 1997 4.1 3.7 2.3 10.0 1998 5.3 3.9 2.2 11.4 1999 3.5 3.5 2.1 9.1 2000 5.0 3.5 2.0 10.5 2001 4.1 2.9 2.3 9.3 2002 1.3 2.6 2.3 6.3 2004 2.6 2.5 2.7 6.6 2004 2.6 2.5 2.6 7.8 2005 3.1 2.5 3.2 8.9 2006 1.5 2.9 3.5 7.9 2007 2.0 3.1 3.1 8.1 2009 1.5 2.9 3.5 7.9 2009 1.5 2.8 2.4 6.7 2010 1.6 3.0 2.4 7.0 2011 1.3 3.6 2.8 2.7 7.7 2012 1.3 3.6 2.8 7.7 7.2 2013 <td< td=""><td>1990</td><td>4.5</td><td>3.1</td><td>2.1</td><td>9.7</td></td<>	1990	4.5	3.1	2.1	9.7
1997 4.1 3.7 2.3 10.0 1998 5.3 3.9 2.2 11.4 1999 3.5 3.5 2.1 9.1 2000 5.0 3.5 2.0 10.5 2001 4.1 2.9 2.3 9.3 2002 1.3 2.6 2.3 6.3 2003 1.3 2.5 2.7 6.6 2004 2.6 2.5 2.6 7.8 2005 3.1 2.5 3.2 8.9 2006 1.5 2.9 3.5 7.9 2007 2.0 3.1 3.1 8.1 2009 1.5 2.9 3.5 7.7 2009 1.5 2.8 2.4 6.7 2010 1.6 3.0 2.4 7.0 2011 1.3 3.2 2.7 7.2 2012 1.3 3.6 2.8 7.7 2015 1.4 3.9 2.9 2.9 2.9 2016 1.3 <td< td=""><td>1995</td><td>4.4</td><td>3.8</td><td>2.0</td><td>10.2</td></td<>	1995	4.4	3.8	2.0	10.2
1999 3.5 3.5 2.1 9.1 2000 5.0 3.5 2.0 10.5 2001 4.1 2.9 2.3 9.3 2002 1.3 2.6 2.3 6.3 2003 1.3 2.5 2.7 6.6 2004 2.6 2.5 2.6 7.8 2005 3.1 2.5 3.2 8.9 2006 1.5 2.9 3.5 7.9 2007 2.0 3.1 3.1 8.1 2008 1.9 2.9 2.9 2.9 7.7 2009 1.5 2.8 2.4 6.7 2010 1.6 3.0 2.4 6.7 2011 1.3 3.2 2.7 7.2 2012 1.3 3.6 2.8 7.7 2013 1.4 3.9 2.9 2.9 8.2 2014 1.3 3.7 3.0 8.0 2015 1.4 3.9 2.9 2.7 7.7 20	1996	3.7	3. <i>1</i>	2.2	9.0
1999 3.5 3.5 2.1 9.1 2000 5.0 3.5 2.0 10.5 2001 4.1 2.9 2.3 9.3 2002 1.3 2.6 2.3 6.3 2003 1.3 2.5 2.7 6.6 2004 2.6 2.5 2.6 7.8 2005 3.1 2.5 3.2 8.9 2006 1.5 2.9 3.5 7.9 2007 2.0 3.1 3.1 8.1 2008 1.9 2.9 2.9 2.9 7.7 2009 1.5 2.8 2.4 6.7 2010 1.6 3.0 2.4 6.7 2011 1.3 3.2 2.7 7.2 2012 1.3 3.6 2.8 7.7 2013 1.4 3.9 2.9 2.9 8.2 2014 1.3 3.7 3.0 8.0 2015 1.4 3.9 2.9 2.7 7.7 20	1002	4.1 5.2	3.7 3.0	2.3 2.2	10.0 11 /
2001 4.1 2.9 2.3 9.3 2002 1.3 2.6 2.3 6.3 2003 1.3 2.5 2.7 6.6 2004 2.6 2.5 2.6 7.8 2005 3.1 2.5 3.2 8.9 2006 1.5 2.9 3.5 7.9 2007 2.0 3.1 3.1 8.1 2008 1.9 2.9 2.9 7.7 2010 1.5 2.8 2.4 6.7 2010 1.6 3.0 2.4 6.7 2011 1.3 3.2 2.7 7.2 2012 1.3 3.6 2.8 7.7 2013 1.4 3.9 2.9 8.2 2014 1.3 3.7 3.0 8.0 2015 1.4 3.6 2.7 7.5 2016 1.3 3.4 2.9 7.5 2017 1.1 3.3 3.0 7.4 2018 0.8 3.2 3.	1990	3.5	3.5	2.2	91
2001 4.1 2.9 2.3 9.3 2002 1.3 2.6 2.3 6.3 2003 1.3 2.5 2.7 6.6 2004 2.6 2.5 2.6 7.8 2005 3.1 2.5 3.2 8.9 2006 1.5 2.9 3.5 7.9 2007 2.0 3.1 3.1 8.1 2008 1.9 2.9 2.9 7.7 2010 1.5 2.8 2.4 6.7 2010 1.6 3.0 2.4 6.7 2011 1.3 3.2 2.7 7.2 2012 1.3 3.6 2.8 7.7 2013 1.4 3.9 2.9 8.2 2014 1.3 3.7 3.0 8.0 2015 1.4 3.6 2.7 7.5 2016 1.3 3.4 2.9 7.5 2017 1.1 3.3 3.0 7.4 2018 0.8 3.2 3.	2000	5.0	3.5	2.1	10.5
2010 1.6 3.0 2.4 7.0 2011 1.3 3.2 2.7 7.2 2012 1.3 3.6 2.8 7.7 2013 1.4 3.9 2.9 8.2 2014 1.3 3.7 3.0 8.0 2015 1.4 3.6 2.7 7.7 2016 1.3 3.4 2.9 7.5 2017 1.1 3.3 3.0 7.4 2018 0.8 3.2 3.1 7.1 2019 0.8 3.2 3.0 7.1	2001	4 1	2.9	2.3	9.3
2010 1.6 3.0 2.4 7.0 2011 1.3 3.2 2.7 7.2 2012 1.3 3.6 2.8 7.7 2013 1.4 3.9 2.9 8.2 2014 1.3 3.7 3.0 8.0 2015 1.4 3.6 2.7 7.7 2016 1.3 3.4 2.9 7.5 2017 1.1 3.3 3.0 7.4 2018 0.8 3.2 3.1 7.1 2019 0.8 3.2 3.0 7.1	2002	1.3	2.6	2.3	6.3
2010 1.6 3.0 2.4 7.0 2011 1.3 3.2 2.7 7.2 2012 1.3 3.6 2.8 7.7 2013 1.4 3.9 2.9 8.2 2014 1.3 3.7 3.0 8.0 2015 1.4 3.6 2.7 7.7 2016 1.3 3.4 2.9 7.5 2017 1.1 3.3 3.0 7.4 2018 0.8 3.2 3.1 7.1 2019 0.8 3.2 3.0 7.1	2003	1.3	2.5	2.7	6.6
2010 1.6 3.0 2.4 7.0 2011 1.3 3.2 2.7 7.2 2012 1.3 3.6 2.8 7.7 2013 1.4 3.9 2.9 8.2 2014 1.3 3.7 3.0 8.0 2015 1.4 3.6 2.7 7.7 2016 1.3 3.4 2.9 7.5 2017 1.1 3.3 3.0 7.4 2018 0.8 3.2 3.1 7.1 2019 0.8 3.2 3.0 7.1	2004	2.6	2.5	2.6	7.8
2010 1.6 3.0 2.4 7.0 2011 1.3 3.2 2.7 7.2 2012 1.3 3.6 2.8 7.7 2013 1.4 3.9 2.9 8.2 2014 1.3 3.7 3.0 8.0 2015 1.4 3.6 2.7 7.7 2016 1.3 3.4 2.9 7.5 2017 1.1 3.3 3.0 7.4 2018 0.8 3.2 3.1 7.1 2019 0.8 3.2 3.0 7.1	2005	3.1	2.5	3.2	8.9
2010 1.6 3.0 2.4 7.0 2011 1.3 3.2 2.7 7.2 2012 1.3 3.6 2.8 7.7 2013 1.4 3.9 2.9 8.2 2014 1.3 3.7 3.0 8.0 2015 1.4 3.6 2.7 7.7 2016 1.3 3.4 2.9 7.5 2017 1.1 3.3 3.0 7.4 2018 0.8 3.2 3.1 7.1 2019 0.8 3.2 3.0 7.1	2006	1.5	2.9	3.5	7.9
2010 1.6 3.0 2.4 7.0 2011 1.3 3.2 2.7 7.2 2012 1.3 3.6 2.8 7.7 2013 1.4 3.9 2.9 8.2 2014 1.3 3.7 3.0 8.0 2015 1.4 3.6 2.7 7.7 2016 1.3 3.4 2.9 7.5 2017 1.1 3.3 3.0 7.4 2018 0.8 3.2 3.1 7.1 2019 0.8 3.2 3.0 7.1	2007	2.0	3.1	3.1	8.1
2010 1.6 3.0 2.4 7.0 2011 1.3 3.2 2.7 7.2 2012 1.3 3.6 2.8 7.7 2013 1.4 3.9 2.9 8.2 2014 1.3 3.7 3.0 8.0 2015 1.4 3.6 2.7 7.7 2016 1.3 3.4 2.9 7.5 2017 1.1 3.3 3.0 7.4 2018 0.8 3.2 3.1 7.1 2019 0.8 3.2 3.0 7.1	2008	1.9	2.9	2.9	/./
2013 1.4 3.9 2.9 8.2 2014 1.3 3.7 3.0 8.0 2015 1.4 3.6 2.7 7.7 2016 1.3 3.4 2.9 7.5 2017 1.1 3.3 3.0 7.4 2018 0.8 3.2 3.1 7.1 2019 0.8 3.2 3.0 7.1	2009	1.5	2.8	2.4	6.7
2013 1.4 3.9 2.9 8.2 2014 1.3 3.7 3.0 8.0 2015 1.4 3.6 2.7 7.7 2016 1.3 3.4 2.9 7.5 2017 1.1 3.3 3.0 7.4 2018 0.8 3.2 3.1 7.1 2019 0.8 3.2 3.0 7.1	2010	1.0	3.U 2.2	2.4	7.U 7.0
2013 1.4 3.9 2.9 8.2 2014 1.3 3.7 3.0 8.0 2015 1.4 3.6 2.7 7.7 2016 1.3 3.4 2.9 7.5 2017 1.1 3.3 3.0 7.4 2018 0.8 3.2 3.1 7.1 2019 0.8 3.2 3.0 7.1	2011	1.0	3.2 3.6	2.1 2.8	7.2 7.7
2016 1.3 3.4 2.9 7.5 2017 1.1 3.3 3.0 7.4 2018 0.8 3.2 3.1 7.1 2019 0.8 3.2 3.0 7.1	2012	1.5	3.9	2.0	82
2016 1.3 3.4 2.9 7.5 2017 1.1 3.3 3.0 7.4 2018 0.8 3.2 3.1 7.1 2019 0.8 3.2 3.0 7.1	2014	1.3	3.7	3.0	8.0
2016 1.3 3.4 2.9 7.5 2017 1.1 3.3 3.0 7.4 2018 0.8 3.2 3.1 7.1 2019 0.8 3.2 3.0 7.1	2015	1.4	3.6	2.7	7.7
2017 1.1 3.3 3.0 7.4 2018 0.8 3.2 3.1 7.1 2019 0.8 3.2 3.0 7.1	2016	1.3	3.4	2.9	7.5
2019 0.8 3.2 3.0 7.1	2017	1.1	3.3	3.0	7.4
2019 0.8 3.2 3.0 7.1 2020 0.7 3.1 2.9 6.6 2021 0.7 3.1 3.0 6.8 2022 0.7 3.0 3.0 6.7 2023 0.7 2.9 2.9 6.5	2018	0.8	3.2	3.1	7.1
2020 0.7 3.1 2.9 6.6 2021 0.7 3.1 3.0 6.8 2022 0.7 3.0 3.0 6.7 2023 0.7 2.9 2.9 6.5	2019	0.8	3.2	3.0	7.1
2021 0.7 3.1 3.0 6.8 2022 0.7 3.0 3.0 6.7 2023 0.7 2.9 2.9 6.5	2020	0.7	3.1	2.9	6.6
2022 0.7 3.0 3.0 6.7 2023 0.7 2.9 2.9 6.5	2021	0.7	3.1	3.0	6.8
2023 0.7 2.9 2.9 5.5	2022	0.7	3.0	3.0	6.7
	2023	0.7	2.9	2.9	6.5

^a Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

b Excludes biofuels.

 $[\]cdot$ Totals may not equal sum of components due to independent rounding. \cdot The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. \cdot The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.