

**Table A12. World carbon dioxide emissions from natural gas use by region, High Economic Growth case**

million metric tons carbon dioxide

| Region                             | 2020         | 2025         | 2030         | 2035         | 2040          | 2045          | 2050          | Average annual percentage change, 2020–2050 |
|------------------------------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|---------------------------------------------|
| <b>OECD</b>                        |              |              |              |              |               |               |               |                                             |
| <b>OECD Americas</b>               | <b>2,088</b> | <b>2,206</b> | <b>2,290</b> | <b>2,414</b> | <b>2,601</b>  | <b>2,765</b>  | <b>2,934</b>  | <b>1.1</b>                                  |
| United States                      | 1,672        | 1,717        | 1,745        | 1,803        | 1,922         | 2,037         | 2,159         | 0.9                                         |
| Canada                             | 237          | 266          | 295          | 330          | 376           | 415           | 450           | 2.2                                         |
| Mexico and other OECD Americas     | 179          | 224          | 250          | 282          | 303           | 314           | 325           | 2.0                                         |
| <b>OECD Europe</b>                 | <b>1,037</b> | <b>1,107</b> | <b>1,140</b> | <b>1,151</b> | <b>1,183</b>  | <b>1,229</b>  | <b>1,289</b>  | <b>0.7</b>                                  |
| <b>OECD Asia</b>                   | <b>461</b>   | <b>459</b>   | <b>474</b>   | <b>456</b>   | <b>446</b>    | <b>433</b>    | <b>445</b>    | <b>-0.1</b>                                 |
| Japan                              | 232          | 217          | 215          | 197          | 187           | 183           | 183           | -0.8                                        |
| South Korea                        | 130          | 135          | 146          | 143          | 139           | 129           | 134           | 0.1                                         |
| Australia and New Zealand          | 99           | 108          | 113          | 116          | 119           | 122           | 128           | 0.9                                         |
| <b>Total OECD</b>                  | <b>3,585</b> | <b>3,773</b> | <b>3,904</b> | <b>4,021</b> | <b>4,230</b>  | <b>4,427</b>  | <b>4,668</b>  | <b>0.9</b>                                  |
| <b>Non-OECD</b>                    |              |              |              |              |               |               |               |                                             |
| <b>Non-OECD Europe and Eurasia</b> | <b>1,326</b> | <b>1,405</b> | <b>1,522</b> | <b>1,601</b> | <b>1,692</b>  | <b>1,789</b>  | <b>1,878</b>  | <b>1.2</b>                                  |
| Russia                             | 956          | 1,006        | 1,106        | 1,168        | 1,250         | 1,324         | 1,382         | 1.2                                         |
| Other Europe and Eurasia           | 370          | 399          | 416          | 433          | 442           | 465           | 495           | 1.0                                         |
| <b>Non-OECD Asia</b>               | <b>1,261</b> | <b>1,621</b> | <b>2,037</b> | <b>2,164</b> | <b>2,447</b>  | <b>2,752</b>  | <b>3,080</b>  | <b>3.0</b>                                  |
| China                              | 610          | 852          | 1,138        | 1,157        | 1,299         | 1,449         | 1,599         | 3.3                                         |
| India                              | 110          | 162          | 224          | 284          | 349           | 423           | 505           | 5.2                                         |
| Other Asia                         | 541          | 607          | 675          | 723          | 799           | 881           | 976           | 2.0                                         |
| <b>Middle East</b>                 | <b>1,020</b> | <b>1,185</b> | <b>1,282</b> | <b>1,338</b> | <b>1,439</b>  | <b>1,521</b>  | <b>1,588</b>  | <b>1.5</b>                                  |
| <b>Africa</b>                      | <b>300</b>   | <b>332</b>   | <b>392</b>   | <b>451</b>   | <b>507</b>    | <b>544</b>    | <b>619</b>    | <b>2.4</b>                                  |
| <b>Non-OECD Americas</b>           | <b>301</b>   | <b>321</b>   | <b>334</b>   | <b>360</b>   | <b>375</b>    | <b>399</b>    | <b>435</b>    | <b>1.2</b>                                  |
| Brazil                             | 65           | 87           | 90           | 87           | 88            | 91            | 96            | 1.3                                         |
| Other Non-OECD Americas            | 236          | 234          | 245          | 273          | 287           | 308           | 339           | 1.2                                         |
| <b>Total Non-OECD</b>              | <b>4,209</b> | <b>4,864</b> | <b>5,567</b> | <b>5,913</b> | <b>6,460</b>  | <b>7,005</b>  | <b>7,600</b>  | <b>2.0</b>                                  |
| <b>Total World</b>                 | <b>7,794</b> | <b>8,637</b> | <b>9,472</b> | <b>9,934</b> | <b>10,690</b> | <b>11,432</b> | <b>12,268</b> | <b>1.5</b>                                  |

Sources: U.S. Energy Information Administration (EIA), World Energy Projection System (2021), run hm\_210719.163753; and EIA, *Annual Energy Outlook 2021*, (February 2021), [www.eia.gov/aeo](http://www.eia.gov/aeo)

Notes:

\* Values presented are gross CO<sub>2</sub> emissions; CO<sub>2</sub> captured by CCS, accounting for less than 0.2% of the 2050 world total, is not subtracted

\* Totals may not equal sum of components due to independent rounding.