

**2025 Electricity Emission Factors**

Source: IEA (2025)

| CO2 emissions per kwh of electricity (gCO2/kWh) |                                         |                |
|-------------------------------------------------|-----------------------------------------|----------------|
| ABB country                                     | IEA country                             | Electricity EF |
| Algeria (DZ)                                    | Algeria                                 | 500.1          |
| Argentina (AR)                                  | Argentina                               | 257.5          |
| Australia (AU)                                  | Australia                               | 583.4          |
| Austria (AT)                                    | Austria                                 | 99.9           |
| Belgium (BE)                                    | Belgium                                 | 141.4          |
| Brazil (BR)                                     | Brazil                                  | 65.8           |
| Bulgaria (BG)                                   | Bulgaria                                | 323.6          |
| Canada (CA)                                     | Canada                                  | 119.0          |
| Chile (CL)                                      | Chile                                   | 221.0          |
| China (CN)                                      | China (PR of China and Hong Kong China) | 589.2          |
| Colombia (CO)                                   | Colombia                                | 210.4          |
| Croatia (HR)                                    | Croatia                                 | 148.3          |
| Czech Republic (CZ)                             | Czech Republic                          | 390.3          |
| Denmark (DK)                                    | Denmark                                 | 62.0           |
| Egypt (EG)                                      | Egypt                                   | 400.0          |
| Estonia (EE)                                    | Estonia                                 | 453.9          |
| Finland (FI)                                    | Finland                                 | 41.5           |
| France (FR)                                     | France                                  | 41.3           |
| Germany (DE)                                    | Germany                                 | 331.3          |
| Greece (GR)                                     | Greece                                  | 294.7          |
| Hungary (HU)                                    | Hungary                                 | 152.9          |
| India (IN)                                      | India                                   | 747.3          |
| Indonesia (ID)                                  | Indonesia                               | 752.8          |
| Ireland (IE)                                    | Ireland                                 | 241.3          |
| Israel (IL)                                     | Israel                                  | 397.6          |
| Italy (IT)                                      | Italy                                   | 257.4          |
| Japan (JP)                                      | Japan                                   | 448.2          |
| Kazakhstan (KZ)                                 | Kazakhstan                              | 606.1          |
| Korea, Republic of (KR)                         | Democratic People's Republic of Korea   | 455.7          |
| Lithuania (LT)                                  | Lithuania                               | 67.9           |
| Malaysia (MY)                                   | Malaysia                                | 615.4          |
| Mexico (MX)                                     | Mexico                                  | 420.5          |
| Netherlands (NL)                                | Netherlands                             | 233.3          |
| New Zealand (NZ)                                | New Zealand                             | 89.9           |
| Nigeria (NG)                                    | Nigeria                                 | 403.5          |
| Norway (NO)                                     | Norway                                  | 5.5            |
| Peru (PE)                                       | Peru                                    | 221.3          |
| Philippines (PH)                                | Philippines                             | 770.2          |
| Poland (PL)                                     | Poland                                  | 543.8          |
| Puerto Rico (PR)                                | Non-OECD Americas                       | 608.6          |
| Qatar (QA)                                      | Qatar                                   | 460.6          |
| Romania (RO)                                    | Romania                                 | 225.3          |
| Saudi Arabia (SA)                               | Saudi Arabia                            | 596.7          |
| Serbia (RS)                                     | Serbia                                  | 669.3          |
| Singapore (SG)                                  | Singapore                               | 377.6          |
| Slovakia (SK)                                   | Slovak Republic                         | 97.2           |
| South Africa (ZA)                               | South Africa                            | 872.6          |
| Spain (ES)                                      | Spain                                   | 132.7          |
| Sweden (SE)                                     | Sweden                                  | 9.9            |
| Switzerland (CH)                                | Switzerland                             | 21.3           |
| Taiwan (Chinese Taipei) (TW)                    | Chinese Taipei                          | 554.1          |
| Thailand (TH)                                   | Thailand                                | 432.4          |
| Türkiye (TR)                                    | Republic of Türkiye                     | 414.2          |
| United Arab Emirates (AE)                       | United Arab Emirates                    | 358.2          |
| United Kingdom (GB)                             | United Kingdom                          | 175.0          |
| United States (US)                              | United States                           | 330.8          |
| Viet Nam (VN)                                   | Viet Nam                                | 558.4          |