

**Table S1.** List of nations included in our definition of Sub-Saharan Africa (SSA).

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| <b>Sub-Saharan Africa</b>        |
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| Angola                           |
| Benin                            |
| Botswana                         |
| Burkina Faso                     |
| Burundi                          |
| Cabo Verde                       |
| Cameroon                         |
| Central African Republic         |
| Chad                             |
| Comoros                          |
| Congo                            |
| Côte d'Ivoire                    |
| Democratic Republic of the Congo |
| Djibouti                         |
| Equatorial Guinea                |
| Eritrea                          |
| Ethiopia                         |
| Gabon                            |
| Gambia                           |
| Ghana                            |
| Guinea                           |
| Guinea-Bissau                    |
| Kenya                            |
| Lesotho                          |
| Liberia                          |
| Madagascar                       |
| Malawi                           |
| Mali                             |
| Mauritania                       |
| Mauritius                        |
| Mayotte                          |
| Mozambique                       |
| Namibia                          |
| Niger                            |
| Nigeria                          |
| Réunion                          |
| Rwanda                           |
| Sao Tome and Principe            |
| Senegal                          |
| Seychelles                       |
| Sierra Leone                     |
| Somalia                          |
| South Africa                     |
| South Sudan                      |

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| Sudan                       |
| Swaziland                   |
| Togo                        |
| Uganda                      |
| United Republic of Tanzania |
| Zambia                      |
| Zimbabwe                    |

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**Table S2.** Statistics from 63 countries used in per capita energy consumption comparisons, 2014. This includes per capita energy consumption in gigajoules per person for the year 2014, 2014 human development index, and 2010-2015 total fertility rate. Sources [1–3].

| Country             | Per Capita Energy Consumption | Human Development Index | Total Fertility Rate |
|---------------------|-------------------------------|-------------------------|----------------------|
| Algeria             | 56.1                          | 0.74                    | 2.9                  |
| Argentina           | 83.9                          | 0.84                    | 2.3                  |
| Australia           | 218.5                         | 0.93                    | 1.9                  |
| Austria             | 160.5                         | 0.89                    | 1.5                  |
| Azerbaijan          | 57.3                          | 0.75                    | 2.3                  |
| Bangladesh          | 7.4                           | 0.57                    | 2.2                  |
| Belarus             | 126.6                         | 0.80                    | 1.6                  |
| Belgium             | 216.0                         | 0.89                    | 1.8                  |
| Brazil              | 60.3                          | 0.76                    | 1.8                  |
| Bulgaria            | 104.3                         | 0.78                    | 1.5                  |
| Canada              | 392.6                         | 0.91                    | 1.6                  |
| Chile               | 82.8                          | 0.83                    | 1.8                  |
| China               | 91.2                          | 0.73                    | 1.6                  |
| China Hong Kong SAR | 159.7                         | 0.91                    | 1.2                  |
| Czech Republic      | 163.1                         | 0.87                    | 1.5                  |
| Denmark             | 128.4                         | 0.92                    | 1.7                  |
| Ecuador             | 40.6                          | 0.73                    | 2.6                  |
| Egypt               | 40.4                          | 0.69                    | 3.4                  |
| Finland             | 200.4                         | 0.88                    | 1.7                  |
| France              | 155.6                         | 0.89                    | 2.0                  |
| Germany             | 162.0                         | 0.92                    | 1.4                  |
| Greece              | 99.7                          | 0.87                    | 1.3                  |
| Hungary             | 84.8                          | 0.83                    | 1.3                  |
| India               | 20.7                          | 0.61                    | 2.5                  |
| Indonesia           | 28.9                          | 0.68                    | 2.5                  |
| Iran                | 135.5                         | 0.77                    | 1.7                  |
| Israel              | 127.2                         | 0.89                    | 3.1                  |
| Italy               | 104.6                         | 0.87                    | 1.4                  |
| Japan               | 151.1                         | 0.89                    | 1.4                  |
| Kazakhstan          | 131.4                         | 0.79                    | 2.6                  |
| Kuwait              | 450.6                         | 0.82                    | 2.2                  |
| Lithuania           | 78.4                          | 0.84                    | 1.6                  |
| Malaysia            | 127.8                         | 0.78                    | 2.0                  |

|                      |       |      |     |
|----------------------|-------|------|-----|
| Mexico               | 64.1  | 0.76 | 2.3 |
| Netherlands          | 202.0 | 0.92 | 1.8 |
| New Zealand          | 194.4 | 0.91 | 2.1 |
| Norway               | 381.1 | 0.94 | 1.8 |
| Pakistan             | 16.7  | 0.54 | 3.7 |
| Peru                 | 31.1  | 0.73 | 2.5 |
| Philippines          | 14.2  | 0.67 | 3.0 |
| Poland               | 104.0 | 0.84 | 1.4 |
| Portugal             | 99.4  | 0.83 | 1.3 |
| Republic of Ireland  | 123.3 | 0.92 | 2.0 |
| Romania              | 71.9  | 0.79 | 1.5 |
| Russian Federation   | 199.7 | 0.80 | 1.7 |
| Saudi Arabia         | 325.7 | 0.84 | 2.9 |
| Singapore            | 580.6 | 0.91 | 1.2 |
| Slovakia             | 116.2 | 0.84 | 1.4 |
| South Africa         | 98.6  | 0.67 | 2.4 |
| South Korea          | 229.1 | 0.90 | 1.3 |
| Spain                | 120.8 | 0.88 | 1.3 |
| Sweden               | 223.4 | 0.91 | 1.9 |
| Switzerland          | 146.8 | 0.93 | 1.5 |
| Thailand             | 75.4  | 0.73 | 1.5 |
| Turkey               | 67.9  | 0.76 | 2.1 |
| Turkmenistan         | 247.6 | 0.69 | 2.3 |
| Ukraine              | 93.4  | 0.75 | 1.5 |
| United Arab Emirates | 477.2 | 0.84 | 1.8 |
| United Kingdom       | 122.7 | 0.91 | 1.9 |
| US                   | 302.2 | 0.91 | 1.9 |
| Uzbekistan           | 73.1  | 0.68 | 2.5 |
| Venezuela            | 115.4 | 0.76 | 2.4 |
| Vietnam              | 26.9  | 0.67 | 2.0 |

1. BP, BP Statistical Review of World Energy 2015. In British Petroleum: London, 2015.
2. UN, World Population Prospects: The 2015 Revision. In July 2015 ed.; United Nations, Department of Economic and Social Affairs, Population Division: New York, 2015.
3. WB World Development Indicators. <http://data.worldbank.org/data-catalog/world-development-indicators>