

World estimate of the energy consumption

Should the SR2 and SR1.5 would be ignored

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Most of the scenarios for IPCC include a notion of reduction of the energy consumption over the coming decades. This sounds quite unrealistic as some countries still do not have access to energy or are in the verge of increasing their demand as their population is willing to access more modern technology.

This paper will try to propose an intermediate evolution where large per capita consumers will reduce their consumption and low ones will increase their access to energy towards 2060.

Several assumptions will be made:

- The evolution of the demand for countries with huge per capita consumption will mainly decrease during the coming two decades. This is a very challenging assumption, as the last two decades have shown a constant increase of the consumption even in the USA (One of the highest per capita consumption and the second largest oil importer). We consider a decrease of one third and 50% compared to the current value for the USA. Note that for some already quite developed country, this may still induce an increase of the demand which we consider taking place in the next two decade.
- For countries which already have started their mutation, i.e. where the consumption is increasing, we will set a three decades evolution to 2/3 and 50% of the current USA per capita consumption
- For countries with low per capita consumption (Mainly countries in Africa), the increase will take four decades towards the 2/3 and 50% of the current USA per capita consumption.
- The currently reported energy consumption per capita will be used for 2020. This lowers the final values but stay compatible with the estimates and calculations uncertainties. (1)
- Countries with a ratio (compared to the USA) being less than 2 are considered developed, those with a ratio between 2 and 4 are intermediate and those with a ratio larger than 4 are considered emerging slower.
- Linear model is considered for the evolution per decade. The curve is likely to be more complex but this would require many more parameters than available to take such approach in consideration.

Although these assumptions seem quite arbitrary, they are likely to be more reasonable than expecting a decrease of the overall world energy consumption from the current value in the next decades (2).

The overall population evolves from 7.758 billion on 2020 to 10.184 billion in 2060. (2, 3)

| Year | Population (billion) (3) | Primary energy supply (MTOE) (2) | Final consumption (MTOE) (2) |
|------|--------------------------|----------------------------------|------------------------------|
| 2020 | 7.758 | 14 499 | 10 360 |
| 2030 | 8.501 | 15 291 | 11 147 |
| 2040 | 9.157 | 15 178 | 11 513 |
| 2050 | 9.725 | 15 095 | 11 585 |
| 2060 | 10.184 | 15 085 | 11 417 |

MTOE: Million Tons of Oil Equivalent.

Notes to reference (2): Model “Unfinished Symphony” has been chosen as an average realistic model where countries try to address the global warming. Although the population increases by one third, the energy demand increases solely by 10%.

The current values for consumption used in this document do not take care of a few small areas (Andorra, Curacao, Gaza Strip, Jersey, Kosovo, Liechtenstein, Marshall Islands, Micronesia, Federated States of, Northern Mariana Islands, South Sudan, U.S. Virgin Islands, and West Bank) totalizing 19.5 million people, i.e. 0.27% of the total current population. This number is too small to impact the conclusions of this document. Additionally some countries have a zero reported consumption per capita. Once again, these do not contribute significantly (0.0018%) to the global balance.

Taking into account the evolution of the population, an overall evaluation based on our assumptions is conducted.

For a 50% of the current USA consumption per capita target, the evolution is shown below.

| 50% | 2020 | 2030 | 2040 | 2050 | 2060 |
|-------------|-------------|-------------|-------------|-------------|-------------|
| TWh | 157 114.80 | 221 384.45 | 291 488.92 | 362 223.23 | 426 121.24 |
| EJ | 567.20 | 799.22 | 1052.31 | 1307.67 | 1538.34 |
| MTOE | 13 546 | 19 088 | 25 133 | 31 232 | 36 741 |

For a 2/3 of the current USA consumption per capita target, the evolution is shown below.

| 66% | 2020 | 2030 | 2040 | 2050 | 2060 |
|-------------|-------------|-------------|-------------|-------------|-------------|
| TWh | 157 114.80 | 252 664.43 | 358 876.46 | 475 127.60 | 562 480.04 |
| EJ | 567.20 | 912.15 | 1295.58 | 1715.26 | 2030.61 |
| MTOE | 13 546 | 21 785 | 30 943 | 40 966 | 48 498 |

The results, based on these assumptions, are

- For the 50% hypothesis, there is an increase by a factor 2.7 from 567 EJ to 1538 EJ of the global energy consumption in the world by 2060. (Annex II)
- For the 2/3 hypothesis, there is an increase by a factor 3.6 from 567 EJ to 2030 EJ of the global energy consumption in the world by 2060. (Annex III)

Comparison with the model "MESSAGE", one of the most energy demanding:

| MESSAGE | RCP 8.5 | IIASA | | | |
|------------|---------|--------|--------|--------|--------|
| Ratios | 2020 | 2030 | 2040 | 2050 | 2060 |
| PgC/yr | 12.444 | 14.554 | 17.432 | 20.781 | 24.097 |
| 50% EJ/PgC | 45.58 | 54.91 | 60.37 | 62.93 | 63.84 |
| 66% EJ/PgC | 45.58 | 62.67 | 74.32 | 82.54 | 84.27 |

With normalized data, this gives:

| Normalized | 2020 | 2030 | 2040 | 2050 | 2060 |
|------------|------|------|------|------|------|
| PgC/yr | 1 | 1.17 | 1.40 | 1.67 | 1.94 |
| 50% EJ/PgC | 1 | 1.20 | 1.32 | 1.38 | 1.40 |
| 66% EJ/PgC | 1 | 1.38 | 1.63 | 1.81 | 1.85 |
| 50% - EJ | 1 | 1.41 | 1.86 | 2.31 | 2.71 |
| 66% - EJ | 1 | 1.61 | 2.28 | 3.02 | 3.58 |

We observe a more rapid increase on the energy demand than on the CO2 emission from MESSAGE, being 40% and 85% respectively for 50% and 2/3. It cannot solely be explained by the reduction of fossil energy use.

The values given in this paper are not in accordance with most of the current models which keep a low pace for the increase of the energy consumption or even for a decrease for the entire world.

Note that Ref.2 and Message-Efficiency are not in accordance on the evolution of the world population:

| Population | 2020 | 2030 | 2040 | 2050 | 2060 |
|------------------------------|------|------|------|------|-------|
| World Energy Council (Ref.2) | 7758 | 8501 | 9157 | 9725 | 10184 |
| Message-efficiency - IIASA | 7698 | 8332 | 8823 | 9170 | 9501 |
| Ratio | 1.01 | 1.02 | 1.04 | 1.06 | 1.072 |

In 2060, the energy is considered well shared by the populations of all countries. This is likely to be wrong but, on average, the values are not inconsistent with the observations and the historical data, as well as with the developments from the past, and with the migrations of population towards countries with larger energy consumption.

Conclusion

The overall conclusion is that, should the population be interested for a “better life” where energy is shared and available for modern way of life, then the current estimations of the evolution of the energy demand is very often way underestimated.

This also indicates that the global power consumption would reach the equivalent of 64 000 GW, compared to 18 000 nowadays for the hypothesis 2/3 and 49 000 GW for the 50% hypothesis.

This translates into both a constraint on primary energy with a decline of coal contribution much earlier than expected and on the CO2 emissions which are likely to reach much higher values than those obtained in the scenario SR2 and SR1.5.

Note that nuclear energy is the only possible long term available contributor to this extensive demand.

References:

1. "International Energy Statistics". U.S. Energy Information Administration. 2016
2. World Energy Council – World Energy – Scenarios 2016
3. CIA World Factbook

Units

1 kW·h/yr = 1,000 Wh/(365.25 x 24)h = 0.11408 Watt

1 quadrillion BTU = 293 TW·h = 1.055 EJ

1 quadrillion BTU/yr = 1.055 EJ/yr = 293 TW·h/yr

1000 TWh = 1 EWh = 3.6 EJ

1 EJ = 277 TWh = 0.277 EWh

1 MTOE = 41 870 terajoules (TJ),

Annex I – Consumption per capita (2)

| Energy per capita (kWh/Capita) | | Population (millions) | Total (TWh) |
|--|----------------------|------------------------------|-----------------------|
| <u>Afghanistan</u> | <u>2734</u> | <u>33.33</u> | <u>91.12</u> |
| <u>Albania</u> | <u>10993</u> | <u>3.04</u> | <u>33.40</u> |
| <u>Algeria</u> | <u>17414</u> | <u>40.26</u> | <u>701.15</u> |
| <u>American Samoa</u> | <u>27033</u> | <u>0.05</u> | <u>1.47</u> |
| <u>Andorra</u> | <u>-</u> | <u>0.09</u> | <u>-</u> |
| <u>Angola</u> | <u>4735</u> | <u>20.17</u> | <u>95.52</u> |
| <u>Antigua and Barbuda</u> | <u>31310</u> | <u>0.09</u> | <u>2.93</u> |
| <u>Argentina</u> | <u>25089</u> | <u>43.89</u> | <u>1101.09</u> |
| <u>Armenia</u> | <u>14404</u> | <u>3.05</u> | <u>43.95</u> |
| <u>Aruba</u> | <u>46406</u> | <u>0.11</u> | <u>5.27</u> |
| <u>Australia</u> | <u>71681</u> | <u>22.99</u> | <u>1648.13</u> |
| <u>Austria</u> | <u>47758</u> | <u>8.71</u> | <u>416.06</u> |
| <u>Azerbaijan</u> | <u>17925</u> | <u>9.87</u> | <u>176.97</u> |
| <u>Bahamas, The</u> | <u>44758</u> | <u>0.33</u> | <u>14.65</u> |
| <u>Bahrain</u> | <u>156603</u> | <u>1.38</u> | <u>215.94</u> |
| <u>Bangladesh</u> | <u>2133</u> | <u>156.19</u> | <u>333.14</u> |
| <u>Barbados</u> | <u>25129</u> | <u>0.29</u> | <u>7.33</u> |
| <u>Belarus</u> | <u>34259</u> | <u>9.57</u> | <u>327.87</u> |
| <u>Belgium</u> | <u>63433</u> | <u>11.41</u> | <u>723.71</u> |
| <u>Belize</u> | <u>8280</u> | <u>0.35</u> | <u>2.93</u> |
| <u>Benin</u> | <u>2373</u> | <u>10.74</u> | <u>25.49</u> |
| <u>Bermuda</u> | <u>29077</u> | <u>0.07</u> | <u>2.05</u> |
| <u>Bhutan</u> | <u>23436</u> | <u>0.75</u> | <u>17.58</u> |
| <u>Bolivia</u> | <u>8200</u> | <u>10.97</u> | <u>89.95</u> |
| <u>Bosnia and Herzegovina</u> | <u>18664</u> | <u>3.86</u> | <u>72.08</u> |
| <u>Botswana</u> | <u>9682</u> | <u>2.21</u> | <u>21.39</u> |
| <u>Brazil</u> | <u>18226</u> | <u>205.82</u> | <u>3751.28</u> |
| <u>British Virgin Islands</u> | <u>17118</u> | <u>0.03</u> | <u>0.59</u> |
| <u>Brunei</u> | <u>104686</u> | <u>0.44</u> | <u>45.71</u> |
| <u>Bulgaria</u> | <u>31865</u> | <u>7.14</u> | <u>227.66</u> |
| <u>Burkina Faso</u> | <u>721</u> | <u>19.51</u> | <u>14.06</u> |
| <u>Burundi</u> | <u>158</u> | <u>11.10</u> | <u>1.76</u> |
| <u>Cape Verde</u> | <u>7412</u> | <u>0.55</u> | <u>4.10</u> |
| <u>Cambodia</u> | <u>1836</u> | <u>15.96</u> | <u>29.30</u> |
| <u>Cameroon</u> | <u>1864</u> | <u>24.36</u> | <u>45.42</u> |
| <u>Canada</u> | <u>120579</u> | <u>35.36</u> | <u>4264.03</u> |
| <u>Cayman Islands</u> | <u>40930</u> | <u>0.06</u> | <u>2.34</u> |
| <u>Central African Republic</u> | <u>372</u> | <u>5.51</u> | <u>2.05</u> |

| <u>Energy per capita (kWh/Capita)</u> | | <u>Population (millions)</u> | <u>Total (TWh)</u> |
|--|----------------|------------------------------|--------------------|
| <u>Chad</u> | <u>124</u> | <u>11.85</u> | <u>1.47</u> |
| <u>Chile</u> | <u>22909</u> | <u>17.65</u> | <u>404.34</u> |
| <u>China</u> | <u>25498</u> | <u>1373.54</u> | <u>35023.17</u> |
| <u>Colombia</u> | <u>10300</u> | <u>47.22</u> | <u>486.38</u> |
| <u>Comoros</u> | <u>1106</u> | <u>0.79</u> | <u>0.88</u> |
| <u>Congo, Democratic Republic of the</u> | <u>501</u> | <u>81.33</u> | <u>40.73</u> |
| <u>Congo, Republic of the</u> | <u>5857</u> | <u>4.85</u> | <u>28.42</u> |
| <u>Cook Islands</u> | <u>30661</u> | <u>0.01</u> | <u>0.29</u> |
| <u>Costa Rica</u> | <u>11666</u> | <u>4.87</u> | <u>56.84</u> |
| <u>Croatia</u> | <u>24588</u> | <u>4.31</u> | <u>106.07</u> |
| <u>Cuba</u> | <u>4923</u> | <u>25.12</u> | <u>123.65</u> |
| <u>Curacao</u> | - | <u>0.15</u> | - |
| <u>Cyprus</u> | <u>23818</u> | <u>1.21</u> | <u>28.71</u> |
| <u>Czech Republic</u> | <u>44563</u> | <u>10.64</u> | <u>474.37</u> |
| <u>Denmark</u> | <u>37713</u> | <u>5.59</u> | <u>210.96</u> |
| <u>Djibouti</u> | <u>4153</u> | <u>0.85</u> | <u>3.52</u> |
| <u>Dominica</u> | <u>7945</u> | <u>0.07</u> | <u>0.59</u> |
| <u>Dominican Republic</u> | <u>8425</u> | <u>10.61</u> | <u>89.37</u> |
| <u>Ecuador</u> | <u>12973</u> | <u>16.08</u> | <u>208.62</u> |
| <u>Egypt</u> | <u>11093</u> | <u>94.67</u> | <u>1050.11</u> |
| <u>El Salvador</u> | <u>5996</u> | <u>6.16</u> | <u>36.92</u> |
| <u>Equatorial Guinea</u> | <u>23534</u> | <u>0.76</u> | <u>17.87</u> |
| <u>Eritrea</u> | <u>399</u> | <u>5.87</u> | <u>2.34</u> |
| <u>Estonia</u> | <u>20254</u> | <u>1.26</u> | <u>25.49</u> |
| <u>Ethiopia</u> | <u>635</u> | <u>102.37</u> | <u>65.05</u> |
| <u>Falkland Islands</u> | <u>0</u> | <u>0.00</u> | <u>0.00</u> |
| <u>Faroe Islands</u> | <u>63877</u> | <u>0.05</u> | <u>3.22</u> |
| <u>Fiji</u> | <u>11204</u> | <u>0.92</u> | <u>10.26</u> |
| <u>Finland</u> | <u>61443</u> | <u>5.50</u> | <u>337.83</u> |
| <u>France</u> | <u>44755</u> | <u>66.84</u> | <u>2991.24</u> |
| <u>French Polynesia</u> | <u>16431</u> | <u>0.29</u> | <u>4.69</u> |
| <u>Gabon</u> | <u>10786</u> | <u>1.74</u> | <u>18.75</u> |
| <u>Gambia, The</u> | <u>1021</u> | <u>2.01</u> | <u>2.05</u> |
| <u>Gaza Strip</u> | - | <u>1.75</u> | - |
| <u>Georgia</u> | <u>12307</u> | <u>4.93</u> | <u>60.65</u> |
| <u>Germany</u> | <u>47433</u> | <u>80.72</u> | <u>3828.92</u> |
| <u>Ghana</u> | <u>2918</u> | <u>26.91</u> | <u>78.52</u> |
| <u>Gibraltar</u> | <u>1808272</u> | <u>0.03</u> | <u>53.03</u> |
| <u>Greece</u> | <u>29237</u> | <u>10.77</u> | <u>314.98</u> |
| <u>Greenland</u> | <u>65982</u> | <u>0.06</u> | <u>3.81</u> |
| <u>Grenada</u> | <u>13172</u> | <u>0.11</u> | <u>1.47</u> |
| <u>Guam</u> | <u>48611</u> | <u>0.16</u> | <u>7.91</u> |

| <u>Energy per capita (kWh/Capita)</u> | | <u>Population (millions)</u> | <u>Total (TWh)</u> |
|---------------------------------------|---------------|------------------------------|--------------------|
| <u>Guatemala</u> | <u>4649</u> | <u>15.19</u> | <u>70.61</u> |
| <u>Guinea</u> | <u>921</u> | <u>12.09</u> | <u>11.13</u> |
| <u>Guinea-Bissau</u> | <u>833</u> | <u>1.76</u> | <u>1.47</u> |
| <u>Guyana</u> | <u>10750</u> | <u>0.74</u> | <u>7.91</u> |
| <u>Haiti</u> | <u>1062</u> | <u>10.49</u> | <u>11.13</u> |
| <u>Honduras</u> | <u>4843</u> | <u>8.89</u> | <u>43.07</u> |
| <u>Hong Kong</u> | <u>48033</u> | <u>7.17</u> | <u>344.28</u> |
| <u>Hungary</u> | <u>28069</u> | <u>9.87</u> | <u>277.18</u> |
| <u>Iceland</u> | <u>178830</u> | <u>0.34</u> | <u>60.07</u> |
| <u>India</u> | <u>5623</u> | <u>1266.88</u> | <u>7124.00</u> |
| <u>Indonesia</u> | <u>8281</u> | <u>258.32</u> | <u>2139.19</u> |
| <u>Iran</u> | <u>37902</u> | <u>82.80</u> | <u>3138.32</u> |
| <u>Iraq</u> | <u>13634</u> | <u>38.15</u> | <u>520.08</u> |
| <u>Ireland</u> | <u>33308</u> | <u>4.95</u> | <u>164.96</u> |
| <u>Israel</u> | <u>33191</u> | <u>8.17</u> | <u>271.32</u> |
| <u>Italy</u> | <u>31172</u> | <u>62.01</u> | <u>1932.92</u> |
| <u>Cote d'Ivoire</u> | <u>2024</u> | <u>23.74</u> | <u>48.05</u> |
| <u>Jamaica</u> | <u>11640</u> | <u>2.97</u> | <u>34.57</u> |
| <u>Japan</u> | <u>44160</u> | <u>126.70</u> | <u>5595.13</u> |
| <u>Jersey</u> | - | <u>0.10</u> | - |
| <u>Jordan</u> | <u>11383</u> | <u>8.19</u> | <u>93.17</u> |
| <u>Kazakhstan</u> | <u>42401</u> | <u>18.36</u> | <u>778.50</u> |
| <u>Kenya</u> | <u>1691</u> | <u>46.79</u> | <u>79.11</u> |
| <u>Kiribati</u> | <u>0</u> | <u>0.11</u> | <u>0.00</u> |
| <u>Korea, North</u> | <u>16289</u> | <u>11.13</u> | <u>181.37</u> |
| <u>Korea, South</u> | <u>63866</u> | <u>50.92</u> | <u>3252.30</u> |
| <u>Kosovo</u> | - | <u>1.88</u> | - |
| <u>Kuwait</u> | <u>170663</u> | <u>2.83</u> | <u>483.45</u> |
| <u>Kyrgyzstan</u> | <u>12738</u> | <u>5.73</u> | <u>72.96</u> |
| <u>Laos</u> | <u>5218</u> | <u>7.02</u> | <u>36.63</u> |
| <u>Latvia</u> | <u>21315</u> | <u>1.97</u> | <u>41.90</u> |
| <u>Lebanon</u> | <u>14233</u> | <u>6.24</u> | <u>88.78</u> |
| <u>Lesotho</u> | <u>2400</u> | <u>1.95</u> | <u>4.69</u> |
| <u>Liberia</u> | <u>954</u> | <u>4.30</u> | <u>4.10</u> |
| <u>Libya</u> | <u>33277</u> | <u>6.54</u> | <u>217.70</u> |
| <u>Liechtenstein</u> | - | <u>0.04</u> | - |
| <u>Lithuania</u> | <u>26382</u> | <u>2.85</u> | <u>75.30</u> |
| <u>Luxembourg</u> | <u>90070</u> | <u>0.58</u> | <u>52.45</u> |
| <u>Macau</u> | <u>17656</u> | <u>0.60</u> | <u>10.55</u> |
| <u>Macedonia</u> | <u>15487</u> | <u>2.10</u> | <u>32.52</u> |
| <u>Madagascar</u> | <u>612</u> | <u>24.43</u> | <u>14.94</u> |
| <u>Malawi</u> | <u>552</u> | <u>18.57</u> | <u>10.26</u> |

| <u>Energy per capita (kWh/Capita)</u> | | <u>Population (millions)</u> | <u>Total (TWh)</u> |
|--|---------------|------------------------------|--------------------|
| <u>Malaysia</u> | <u>32708</u> | <u>30.95</u> | <u>1012.32</u> |
| <u>Maldives</u> | <u>17149</u> | <u>0.39</u> | <u>6.74</u> |
| <u>Mali</u> | <u>403</u> | <u>17.47</u> | <u>7.03</u> |
| <u>Malta</u> | <u>64218</u> | <u>0.42</u> | <u>26.66</u> |
| <u>Marshall Islands</u> | - | <u>0.07</u> | - |
| <u>Mauritania</u> | <u>2789</u> | <u>3.68</u> | <u>10.26</u> |
| <u>Mauritius</u> | <u>16734</u> | <u>1.35</u> | <u>22.56</u> |
| <u>Mexico</u> | <u>17842</u> | <u>123.17</u> | <u>2197.50</u> |
| <u>Micronesia, Federated States of</u> | - | <u>0.10</u> | - |
| <u>Moldova</u> | <u>11935</u> | <u>3.51</u> | <u>41.90</u> |
| <u>Mongolia</u> | <u>20878</u> | <u>3.03</u> | <u>63.29</u> |
| <u>Montenegro</u> | <u>18637</u> | <u>0.64</u> | <u>12.01</u> |
| <u>Montserrat</u> | <u>55629</u> | <u>0.01</u> | <u>0.29</u> |
| <u>Morocco</u> | <u>7069</u> | <u>33.66</u> | <u>237.92</u> |
| <u>Mozambique</u> | <u>2847</u> | <u>25.93</u> | <u>73.84</u> |
| <u>Burma</u> | <u>1911</u> | <u>56.89</u> | <u>108.70</u> |
| <u>Namibia</u> | <u>8779</u> | <u>2.44</u> | <u>21.39</u> |
| <u>Nauru</u> | <u>0</u> | <u>0.01</u> | <u>0.00</u> |
| <u>Nepal</u> | <u>1029</u> | <u>29.03</u> | <u>29.89</u> |
| <u>Netherlands</u> | <u>66100</u> | <u>17.02</u> | <u>1124.83</u> |
| <u>New Caledonia</u> | <u>60653</u> | <u>0.28</u> | <u>16.70</u> |
| <u>New Zealand</u> | <u>58671</u> | <u>4.47</u> | <u>262.53</u> |
| <u>Nicaragua</u> | <u>4272</u> | <u>5.97</u> | <u>25.49</u> |
| <u>Niger</u> | <u>534</u> | <u>18.64</u> | <u>9.96</u> |
| <u>Nigeria</u> | <u>2050</u> | <u>186.05</u> | <u>381.49</u> |
| <u>Niue</u> | <u>0</u> | <u>0.00</u> | <u>0.00</u> |
| <u>Northern Mariana Islands</u> | - | <u>0.05</u> | - |
| <u>Norway</u> | <u>106401</u> | <u>5.27</u> | <u>560.22</u> |
| <u>Oman</u> | <u>99638</u> | <u>3.36</u> | <u>334.31</u> |
| <u>Pakistan</u> | <u>3838</u> | <u>202.00</u> | <u>775.28</u> |
| <u>Panama</u> | <u>27361</u> | <u>3.71</u> | <u>101.38</u> |
| <u>Papua New Guinea</u> | <u>4357</u> | <u>6.79</u> | <u>29.59</u> |
| <u>Paraguay</u> | <u>19298</u> | <u>6.86</u> | <u>132.44</u> |
| <u>Peru</u> | <u>10046</u> | <u>30.74</u> | <u>308.82</u> |
| <u>Philippines</u> | <u>3911</u> | <u>102.62</u> | <u>401.41</u> |
| <u>Poland</u> | <u>29039</u> | <u>38.52</u> | <u>1118.67</u> |
| <u>Portugal</u> | <u>27721</u> | <u>10.83</u> | <u>300.33</u> |
| <u>Puerto Rico</u> | <u>31363</u> | <u>3.58</u> | <u>112.22</u> |
| <u>Qatar</u> | <u>270907</u> | <u>2.26</u> | <u>611.78</u> |
| <u>Romania</u> | <u>18109</u> | <u>21.60</u> | <u>391.16</u> |
| <u>Russia</u> | <u>63138</u> | <u>142.36</u> | <u>8988.07</u> |
| <u>Rwanda</u> | <u>316</u> | <u>12.99</u> | <u>4.10</u> |

| <u>Energy per capita (kWh/Capita)</u> | | <u>Population (millions)</u> | <u>Total (TWh)</u> |
|---|---------------|------------------------------|--------------------|
| <u>Saint Helena</u> | <u>0</u> | <u>0.01</u> | <u>0.00</u> |
| <u>Saint Kitts and Nevis</u> | <u>78389</u> | <u>0.05</u> | <u>4.10</u> |
| <u>Saint Lucia</u> | <u>10689</u> | <u>0.16</u> | <u>1.76</u> |
| <u>Saint Pierre and Miquelon</u> | <u>52368</u> | <u>0.01</u> | <u>0.29</u> |
| <u>Saint Vincent and the Grenadines</u> | <u>8588</u> | <u>0.10</u> | <u>0.88</u> |
| <u>Samoa</u> | <u>2946</u> | <u>0.20</u> | <u>0.59</u> |
| <u>Sao Tome and Principe</u> | <u>2966</u> | <u>0.20</u> | <u>0.59</u> |
| <u>Saudi Arabia</u> | <u>107335</u> | <u>28.16</u> | <u>3022.59</u> |
| <u>Senegal</u> | <u>2087</u> | <u>14.32</u> | <u>29.89</u> |
| <u>Serbia</u> | <u>14683</u> | <u>7.14</u> | <u>104.89</u> |
| <u>Seychelles</u> | <u>44019</u> | <u>0.09</u> | <u>4.10</u> |
| <u>Sierra Leone</u> | <u>97</u> | <u>6.02</u> | <u>0.59</u> |
| <u>Singapore</u> | <u>167335</u> | <u>5.78</u> | <u>967.49</u> |
| <u>Slovakia</u> | <u>36478</u> | <u>5.45</u> | <u>198.65</u> |
| <u>Slovenia</u> | <u>41624</u> | <u>1.98</u> | <u>82.33</u> |
| <u>Solomon Islands</u> | <u>1384</u> | <u>0.64</u> | <u>0.88</u> |
| <u>Somalia</u> | <u>325</u> | <u>10.82</u> | <u>3.52</u> |
| <u>South Africa</u> | <u>29677</u> | <u>54.30</u> | <u>1611.50</u> |
| <u>South Sudan</u> | - | <u>12.53</u> | - |
| <u>Spain</u> | <u>33702</u> | <u>48.56</u> | <u>1636.70</u> |
| <u>Sri Lanka</u> | <u>3769</u> | <u>22.24</u> | <u>83.80</u> |
| <u>Sudan</u> | <u>2409</u> | <u>36.73</u> | <u>88.49</u> |
| <u>Suriname</u> | <u>24507</u> | <u>0.59</u> | <u>14.36</u> |
| <u>Swaziland</u> | <u>3836</u> | <u>1.45</u> | <u>5.57</u> |
| <u>Sweden</u> | <u>62481</u> | <u>9.88</u> | <u>617.35</u> |
| <u>Switzerland</u> | <u>44563</u> | <u>8.18</u> | <u>364.49</u> |
| <u>Syria</u> | <u>9377</u> | <u>17.19</u> | <u>161.15</u> |
| <u>Taiwan</u> | <u>6356</u> | <u>23.46</u> | <u>149.14</u> |
| <u>Tajikistan</u> | <u>6717</u> | <u>8.33</u> | <u>55.96</u> |
| <u>Tanzania</u> | <u>938</u> | <u>52.48</u> | <u>49.22</u> |
| <u>Thailand</u> | <u>22104</u> | <u>68.20</u> | <u>1507.49</u> |
| <u>Timor-Leste</u> | <u>1394</u> | <u>1.26</u> | <u>1.76</u> |
| <u>Togo</u> | <u>1284</u> | <u>7.76</u> | <u>9.96</u> |
| <u>Tonga</u> | <u>8253</u> | <u>0.11</u> | <u>0.88</u> |
| <u>Trinidad and Tobago</u> | <u>246311</u> | <u>1.22</u> | <u>300.62</u> |
| <u>Tunisia</u> | <u>9356</u> | <u>11.18</u> | <u>104.60</u> |
| <u>Turkey</u> | <u>18918</u> | <u>80.27</u> | <u>1518.62</u> |
| <u>Turkmenistan</u> | <u>76969</u> | <u>5.29</u> | <u>407.27</u> |
| <u>Turks and Caicos Islands</u> | <u>17091</u> | <u>0.05</u> | <u>0.88</u> |
| <u>U.S. Virgin Islands</u> | - | <u>0.10</u> | - |
| <u>Uganda</u> | <u>566</u> | <u>38.32</u> | <u>21.68</u> |
| <u>Ukraine</u> | <u>27584</u> | <u>44.21</u> | <u>1219.47</u> |

| <u>Energy per capita (kWh/Capita)</u> | | <u>Population (millions)</u> | <u>Total (TWh)</u> |
|---------------------------------------|---------------|------------------------------|--------------------|
| | | | |
| <u>United Arab Emirates</u> | <u>201628</u> | <u>5.93</u> | <u>1195.15</u> |
| <u>United Kingdom</u> | <u>36453</u> | <u>64.43</u> | <u>2348.69</u> |
| <u>United States</u> | <u>88897</u> | <u>324.00</u> | <u>28802.19</u> |
| <u>Uruguay</u> | <u>20198</u> | <u>3.35</u> | <u>67.68</u> |
| <u>Uzbekistan</u> | <u>19713</u> | <u>29.47</u> | <u>581.02</u> |
| <u>Vanuatu</u> | <u>2111</u> | <u>0.28</u> | <u>0.59</u> |
| <u>Venezuela</u> | <u>31222</u> | <u>30.91</u> | <u>965.14</u> |
| <u>Vietnam</u> | <u>6945</u> | <u>95.26</u> | <u>661.59</u> |
| <u>West Bank</u> | - | <u>2.70</u> | - |
| <u>Western Sahara</u> | <u>1997</u> | <u>0.59</u> | <u>1.17</u> |
| <u>Yemen</u> | <u>3230</u> | <u>27.39</u> | <u>88.49</u> |
| <u>Zambia</u> | <u>3249</u> | <u>15.51</u> | <u>50.40</u> |
| <u>Zimbabwe</u> | <u>3203</u> | <u>14.55</u> | <u>46.59</u> |

Annex II – Evolution of the consumption per country on a 50% vs current USA consumption basis

| <u>Country</u> | <u>2020</u> | <u>2030</u> | <u>2040</u> | <u>2050</u> | <u>2060</u> |
|---------------------------------|----------------|----------------|----------------|-----------------|-----------------|
| <u>Afghanistan</u> | <u>91.12</u> | <u>480.75</u> | <u>928.14</u> | <u>1421.45</u> | <u>1944.85</u> |
| <u>Albania</u> | <u>33.40</u> | <u>64.45</u> | <u>99.42</u> | <u>137.45</u> | <u>177.30</u> |
| <u>Algeria</u> | <u>701.15</u> | <u>1165.89</u> | <u>1684.12</u> | <u>2243.42</u> | <u>2349.30</u> |
| <u>American Samoa</u> | <u>1.47</u> | <u>2.12</u> | <u>2.84</u> | <u>3.02</u> | <u>3.16</u> |
| <u>Andorra</u> | | | | | |
| <u>Angola</u> | <u>95.52</u> | <u>324.12</u> | <u>585.53</u> | <u>872.91</u> | <u>1177.01</u> |
| <u>Antigua and Barbuda</u> | <u>2.93</u> | <u>3.88</u> | <u>4.91</u> | <u>5.21</u> | <u>5.46</u> |
| <u>Argentina</u> | <u>1101.09</u> | <u>1672.03</u> | <u>2302.47</u> | <u>2445.29</u> | <u>2560.70</u> |
| <u>Armenia</u> | <u>43.95</u> | <u>81.64</u> | <u>124.01</u> | <u>170.01</u> | <u>178.03</u> |
| <u>Aruba</u> | <u>5.27</u> | <u>5.66</u> | <u>5.96</u> | <u>6.33</u> | <u>6.63</u> |
| <u>Australia</u> | <u>1648.13</u> | <u>1462.92</u> | <u>1206.28</u> | <u>1281.11</u> | <u>1341.57</u> |
| <u>Austria</u> | <u>416.06</u> | <u>440.11</u> | <u>457.05</u> | <u>485.40</u> | <u>508.31</u> |
| <u>Azerbaijan</u> | <u>176.97</u> | <u>289.57</u> | <u>414.94</u> | <u>550.09</u> | <u>576.06</u> |
| <u>Bahamas, The</u> | <u>14.65</u> | <u>16.00</u> | <u>17.17</u> | <u>18.24</u> | <u>19.10</u> |
| <u>Bahrain</u> | <u>215.94</u> | <u>151.89</u> | <u>72.34</u> | <u>76.83</u> | <u>80.46</u> |
| <u>Bangladesh</u> | <u>333.14</u> | <u>2175.57</u> | <u>4293.69</u> | <u>6631.23</u> | <u>9113.18</u> |
| <u>Barbados</u> | <u>7.33</u> | <u>11.11</u> | <u>15.29</u> | <u>16.24</u> | <u>17.01</u> |
| <u>Belarus</u> | <u>327.87</u> | <u>412.70</u> | <u>502.10</u> | <u>533.24</u> | <u>558.41</u> |
| <u>Belgium</u> | <u>723.71</u> | <u>674.35</u> | <u>598.56</u> | <u>635.69</u> | <u>665.70</u> |
| <u>Belize</u> | <u>2.93</u> | <u>6.72</u> | <u>11.01</u> | <u>15.71</u> | <u>20.65</u> |
| <u>Benin</u> | <u>25.49</u> | <u>151.74</u> | <u>296.81</u> | <u>456.86</u> | <u>626.74</u> |
| <u>Bermuda</u> | <u>2.05</u> | <u>2.84</u> | <u>3.70</u> | <u>3.93</u> | <u>4.12</u> |
| <u>Bhutan</u> | <u>17.58</u> | <u>27.90</u> | <u>39.35</u> | <u>41.80</u> | <u>43.77</u> |
| <u>Bolivia</u> | <u>89.95</u> | <u>207.49</u> | <u>340.84</u> | <u>486.60</u> | <u>640.06</u> |
| <u>Bosnia and Herzegovina</u> | <u>72.08</u> | <u>115.35</u> | <u>163.43</u> | <u>215.18</u> | <u>225.33</u> |
| <u>Botswana</u> | <u>21.39</u> | <u>44.48</u> | <u>70.57</u> | <u>99.02</u> | <u>128.90</u> |
| <u>Brazil</u> | <u>3751.28</u> | <u>6081.94</u> | <u>8674.78</u> | <u>11468.11</u> | <u>12009.38</u> |
| <u>British Virgin Islands</u> | <u>0.59</u> | <u>0.98</u> | <u>1.43</u> | <u>1.91</u> | <u>2.00</u> |
| <u>Brunei</u> | <u>45.71</u> | <u>35.68</u> | <u>22.91</u> | <u>24.33</u> | <u>25.48</u> |
| <u>Bulgaria</u> | <u>227.66</u> | <u>298.72</u> | <u>374.84</u> | <u>398.09</u> | <u>416.88</u> |
| <u>Burkina Faso</u> | <u>14.06</u> | <u>249.15</u> | <u>520.15</u> | <u>819.81</u> | <u>1138.52</u> |
| <u>Burundi</u> | <u>1.76</u> | <u>136.59</u> | <u>292.19</u> | <u>464.37</u> | <u>647.62</u> |
| <u>Cape Verde</u> | <u>4.10</u> | <u>10.11</u> | <u>16.94</u> | <u>24.41</u> | <u>32.29</u> |
| <u>Cambodia</u> | <u>29.30</u> | <u>218.38</u> | <u>435.88</u> | <u>676.01</u> | <u>931.07</u> |
| <u>Cameroon</u> | <u>45.42</u> | <u>333.95</u> | <u>665.83</u> | <u>1032.24</u> | <u>1421.40</u> |
| <u>Canada</u> | <u>4264.03</u> | <u>3197.38</u> | <u>1855.27</u> | <u>1970.35</u> | <u>2063.35</u> |
| <u>Cayman Islands</u> | <u>2.34</u> | <u>2.68</u> | <u>3.00</u> | <u>3.19</u> | <u>3.34</u> |
| <u>Central African Republic</u> | <u>2.05</u> | <u>68.74</u> | <u>145.68</u> | <u>230.78</u> | <u>321.34</u> |
| <u>Chad</u> | <u>1.47</u> | <u>145.52</u> | <u>311.78</u> | <u>495.76</u> | <u>691.57</u> |

| <u>Country</u> | <u>2020</u> | <u>2030</u> | <u>2040</u> | <u>2050</u> | <u>2060</u> |
|--|-----------------|-----------------|-----------------|-----------------|-----------------|
| | | | | | |
| <u>Chile</u> | <u>404.34</u> | <u>651.36</u> | <u>925.99</u> | <u>983.43</u> | <u>1029.85</u> |
| <u>China</u> | <u>35023.17</u> | <u>52638.11</u> | <u>72061.22</u> | <u>76531.11</u> | <u>80143.22</u> |
| <u>Colombia</u> | <u>486.38</u> | <u>974.70</u> | <u>1525.74</u> | <u>2125.72</u> | <u>2755.24</u> |
| <u>Comoros</u> | <u>0.88</u> | <u>10.40</u> | <u>21.36</u> | <u>33.48</u> | <u>46.37</u> |
| <u>Congo, Democratic Republic of the</u> | <u>40.73</u> | <u>1023.79</u> | <u>2157.50</u> | <u>3411.47</u> | <u>4745.50</u> |
| <u>Congo, Republic of the</u> | <u>28.42</u> | <u>82.44</u> | <u>144.06</u> | <u>211.68</u> | <u>283.13</u> |
| <u>Cook Islands</u> | <u>0.29</u> | <u>0.39</u> | <u>0.50</u> | <u>0.53</u> | <u>0.56</u> |
| <u>Costa Rica</u> | <u>56.84</u> | <u>120.63</u> | <u>192.79</u> | <u>271.49</u> | <u>284.30</u> |
| <u>Croatia</u> | <u>106.07</u> | <u>163.16</u> | <u>226.31</u> | <u>240.35</u> | <u>251.70</u> |
| <u>Cuba</u> | <u>123.65</u> | <u>407.43</u> | <u>731.79</u> | <u>1088.28</u> | <u>1465.43</u> |
| <u>Curacao</u> | | | | | |
| <u>Cyprus</u> | <u>28.71</u> | <u>45.09</u> | <u>63.25</u> | <u>67.17</u> | <u>70.34</u> |
| <u>Czech Republic</u> | <u>474.37</u> | <u>519.13</u> | <u>558.47</u> | <u>593.11</u> | <u>621.10</u> |
| <u>Denmark</u> | <u>210.96</u> | <u>251.81</u> | <u>293.47</u> | <u>311.68</u> | <u>326.39</u> |
| <u>Djibouti</u> | <u>3.52</u> | <u>13.20</u> | <u>24.29</u> | <u>36.48</u> | <u>49.40</u> |
| <u>Dominica</u> | <u>0.59</u> | <u>1.38</u> | <u>2.28</u> | <u>3.27</u> | <u>4.30</u> |
| <u>Dominican Republic</u> | <u>89.37</u> | <u>202.60</u> | <u>330.98</u> | <u>471.25</u> | <u>618.89</u> |
| <u>Ecuador</u> | <u>208.62</u> | <u>413.47</u> | <u>644.52</u> | <u>895.99</u> | <u>938.28</u> |
| <u>Egypt</u> | <u>1050.11</u> | <u>2015.71</u> | <u>3103.04</u> | <u>4285.09</u> | <u>5523.62</u> |
| <u>El Salvador</u> | <u>36.92</u> | <u>105.31</u> | <u>183.29</u> | <u>268.85</u> | <u>359.23</u> |
| <u>Equatorial Guinea</u> | <u>17.87</u> | <u>28.29</u> | <u>39.84</u> | <u>42.32</u> | <u>44.31</u> |
| <u>Eritrea</u> | <u>2.34</u> | <u>73.40</u> | <u>155.36</u> | <u>246.03</u> | <u>342.49</u> |
| <u>Estonia</u> | <u>25.49</u> | <u>39.05</u> | <u>54.05</u> | <u>70.12</u> | <u>73.43</u> |
| <u>Ethiopia</u> | <u>65.05</u> | <u>1300.00</u> | <u>2723.86</u> | <u>4298.45</u> | <u>5973.31</u> |
| <u>Falkland Islands</u> | | | | | |
| <u>Faroe Islands</u> | <u>3.22</u> | <u>2.99</u> | <u>2.65</u> | <u>2.81</u> | <u>2.94</u> |
| <u>Fiji</u> | <u>10.26</u> | <u>22.35</u> | <u>36.05</u> | <u>51.00</u> | <u>53.41</u> |
| <u>Finland</u> | <u>337.83</u> | <u>318.99</u> | <u>288.46</u> | <u>306.35</u> | <u>320.81</u> |
| <u>France</u> | <u>2991.24</u> | <u>3266.50</u> | <u>3506.48</u> | <u>3723.98</u> | <u>3899.75</u> |
| <u>French Polynesia</u> | <u>4.69</u> | <u>8.06</u> | <u>11.82</u> | <u>15.90</u> | <u>16.65</u> |
| <u>Gabon</u> | <u>18.75</u> | <u>36.58</u> | <u>56.67</u> | <u>78.53</u> | <u>101.44</u> |
| <u>Gambia, The</u> | <u>2.05</u> | <u>26.16</u> | <u>53.93</u> | <u>84.62</u> | <u>117.26</u> |
| <u>Gaza Strip</u> | | | | | |
| <u>Georgia</u> | <u>60.65</u> | <u>124.31</u> | <u>196.23</u> | <u>274.58</u> | <u>287.54</u> |
| <u>Germany</u> | <u>3828.92</u> | <u>4063.63</u> | <u>4235.03</u> | <u>4497.72</u> | <u>4710.00</u> |
| <u>Ghana</u> | <u>78.52</u> | <u>392.18</u> | <u>752.20</u> | <u>1149.07</u> | <u>1570.04</u> |
| <u>Gibraltar</u> | <u>53.03</u> | <u>29.77</u> | <u>1.54</u> | <u>1.63</u> | <u>1.71</u> |
| <u>Greece</u> | <u>314.98</u> | <u>434.93</u> | <u>565.21</u> | <u>600.27</u> | <u>628.60</u> |
| <u>Greenland</u> | <u>3.81</u> | <u>3.49</u> | <u>3.03</u> | <u>3.22</u> | <u>3.37</u> |
| <u>Grenada</u> | <u>1.47</u> | <u>2.88</u> | <u>4.47</u> | <u>6.20</u> | <u>6.49</u> |
| <u>Guam</u> | <u>7.91</u> | <u>8.30</u> | <u>8.54</u> | <u>9.07</u> | <u>9.50</u> |
| <u>Guatemala</u> | <u>70.61</u> | <u>242.99</u> | <u>440.13</u> | <u>656.90</u> | <u>886.30</u> |

| <u>Country</u> | <u>2020</u> | <u>2030</u> | <u>2040</u> | <u>2050</u> | <u>2060</u> |
|----------------------|----------------|-----------------|-----------------|-----------------|-----------------|
| <u>Guinea</u> | <u>11.13</u> | <u>156.40</u> | <u>323.80</u> | <u>508.85</u> | <u>705.62</u> |
| <u>Guinea-Bissau</u> | <u>1.47</u> | <u>22.62</u> | <u>47.01</u> | <u>73.97</u> | <u>102.64</u> |
| <u>Guyana</u> | <u>7.91</u> | <u>15.46</u> | <u>23.97</u> | <u>33.23</u> | <u>42.94</u> |
| <u>Haiti</u> | <u>11.13</u> | <u>136.83</u> | <u>281.63</u> | <u>441.68</u> | <u>611.82</u> |
| <u>Honduras</u> | <u>43.07</u> | <u>143.68</u> | <u>258.71</u> | <u>385.13</u> | <u>518.90</u> |
| <u>Hong Kong</u> | <u>344.28</u> | <u>363.17</u> | <u>376.03</u> | <u>399.35</u> | <u>418.20</u> |
| <u>Hungary</u> | <u>277.18</u> | <u>392.34</u> | <u>518.07</u> | <u>550.20</u> | <u>576.17</u> |
| <u>Iceland</u> | <u>60.07</u> | <u>41.09</u> | <u>17.62</u> | <u>18.71</u> | <u>19.60</u> |
| <u>India</u> | <u>7124.00</u> | <u>21280.72</u> | <u>37437.12</u> | <u>55173.83</u> | <u>73919.99</u> |
| <u>Indonesia</u> | <u>2139.19</u> | <u>4903.40</u> | <u>8038.60</u> | <u>11465.06</u> | <u>15072.20</u> |
| <u>Iran</u> | <u>3138.32</u> | <u>3735.89</u> | <u>4344.09</u> | <u>4613.55</u> | <u>4831.30</u> |
| <u>Iraq</u> | <u>520.08</u> | <u>999.23</u> | <u>1538.81</u> | <u>2125.42</u> | <u>2225.74</u> |
| <u>Ireland</u> | <u>164.96</u> | <u>210.98</u> | <u>259.83</u> | <u>275.94</u> | <u>288.97</u> |
| <u>Israel</u> | <u>271.32</u> | <u>347.72</u> | <u>428.87</u> | <u>455.47</u> | <u>476.97</u> |
| <u>Italy</u> | <u>1932.92</u> | <u>2569.07</u> | <u>3253.15</u> | <u>3454.94</u> | <u>3618.01</u> |
| <u>Cote d'Ivoire</u> | <u>48.05</u> | <u>328.56</u> | <u>651.12</u> | <u>1007.14</u> | <u>1385.20</u> |
| <u>Jamaica</u> | <u>34.57</u> | <u>73.48</u> | <u>117.49</u> | <u>165.50</u> | <u>173.31</u> |
| <u>Japan</u> | <u>5595.13</u> | <u>6151.03</u> | <u>6647.28</u> | <u>7059.60</u> | <u>7392.80</u> |
| <u>Jersey</u> | | | | | |
| <u>Jordan</u> | <u>93.17</u> | <u>200.96</u> | <u>322.95</u> | <u>456.07</u> | <u>477.60</u> |
| <u>Kazakhstan</u> | <u>778.50</u> | <u>873.65</u> | <u>963.25</u> | <u>1023.00</u> | <u>1071.29</u> |
| <u>Kenya</u> | <u>79.11</u> | <u>634.76</u> | <u>1274.10</u> | <u>1980.11</u> | <u>2730.14</u> |
| <u>Kiribati</u> | | | | | |
| <u>Korea, North</u> | <u>181.37</u> | <u>313.26</u> | <u>460.80</u> | <u>620.40</u> | <u>649.68</u> |
| <u>Korea, South</u> | <u>3252.30</u> | <u>3022.03</u> | <u>2671.68</u> | <u>2837.40</u> | <u>2971.32</u> |
| <u>Kosovo</u> | | | | | |
| <u>Kuwait</u> | <u>483.45</u> | <u>333.86</u> | <u>148.62</u> | <u>157.84</u> | <u>165.29</u> |
| <u>Kyrgyzstan</u> | <u>72.96</u> | <u>146.28</u> | <u>229.03</u> | <u>319.13</u> | <u>334.19</u> |
| <u>Laos</u> | <u>36.63</u> | <u>115.57</u> | <u>205.74</u> | <u>304.79</u> | <u>409.55</u> |
| <u>Latvia</u> | <u>41.90</u> | <u>62.52</u> | <u>85.24</u> | <u>109.52</u> | <u>114.69</u> |
| <u>Lebanon</u> | <u>88.78</u> | <u>166.12</u> | <u>253.10</u> | <u>347.55</u> | <u>363.96</u> |
| <u>Lesotho</u> | <u>4.69</u> | <u>27.63</u> | <u>54.00</u> | <u>83.09</u> | <u>113.96</u> |
| <u>Liberia</u> | <u>4.10</u> | <u>55.73</u> | <u>115.22</u> | <u>180.97</u> | <u>250.89</u> |
| <u>Libya</u> | <u>217.70</u> | <u>278.59</u> | <u>343.22</u> | <u>364.50</u> | <u>381.71</u> |
| <u>Liechtenstein</u> | | | | | |
| <u>Lithuania</u> | <u>75.30</u> | <u>110.76</u> | <u>149.74</u> | <u>159.03</u> | <u>166.54</u> |
| <u>Luxembourg</u> | <u>52.45</u> | <u>42.92</u> | <u>30.55</u> | <u>32.44</u> | <u>33.98</u> |
| <u>Macau</u> | <u>10.55</u> | <u>17.40</u> | <u>25.05</u> | <u>33.29</u> | <u>34.86</u> |
| <u>Macedonia</u> | <u>32.52</u> | <u>57.85</u> | <u>86.25</u> | <u>117.01</u> | <u>122.53</u> |
| <u>Madagascar</u> | <u>14.94</u> | <u>309.75</u> | <u>649.67</u> | <u>1025.59</u> | <u>1425.46</u> |
| <u>Malawi</u> | <u>10.26</u> | <u>234.55</u> | <u>493.19</u> | <u>779.24</u> | <u>1083.54</u> |
| <u>Malaysia</u> | <u>1012.32</u> | <u>1308.35</u> | <u>1623.75</u> | <u>1724.47</u> | <u>1805.86</u> |

| <u>Country</u> | <u>2020</u> | <u>2030</u> | <u>2040</u> | <u>2050</u> | <u>2060</u> |
|--|----------------|----------------|----------------|----------------|-----------------|
| | | | | | |
| <u>Maldives</u> | <u>6.74</u> | <u>11.30</u> | <u>16.40</u> | <u>21.89</u> | <u>22.93</u> |
| <u>Mali</u> | <u>7.03</u> | <u>218.46</u> | <u>462.35</u> | <u>732.13</u> | <u>1019.17</u> |
| <u>Malta</u> | <u>26.66</u> | <u>24.72</u> | <u>21.78</u> | <u>23.13</u> | <u>24.23</u> |
| <u>Marshall Islands</u> | | | | | |
| <u>Mauritania</u> | <u>10.26</u> | <u>53.20</u> | <u>102.51</u> | <u>156.88</u> | <u>214.56</u> |
| <u>Mauritius</u> | <u>22.56</u> | <u>38.37</u> | <u>56.03</u> | <u>75.12</u> | <u>78.67</u> |
| <u>Mexico</u> | <u>2197.50</u> | <u>3604.93</u> | <u>5172.46</u> | <u>6862.62</u> | <u>7186.52</u> |
| <u>Micronesia, Federated States of</u> | | | | | |
| <u>Moldova</u> | <u>41.90</u> | <u>87.60</u> | <u>139.27</u> | <u>195.60</u> | <u>204.83</u> |
| <u>Mongolia</u> | <u>63.29</u> | <u>95.45</u> | <u>130.92</u> | <u>168.90</u> | <u>176.87</u> |
| <u>Montenegro</u> | <u>12.01</u> | <u>19.24</u> | <u>27.27</u> | <u>35.91</u> | <u>37.61</u> |
| <u>Montserrat</u> | <u>0.29</u> | <u>0.29</u> | <u>0.28</u> | <u>0.29</u> | <u>0.31</u> |
| <u>Morocco</u> | <u>237.92</u> | <u>605.33</u> | <u>1023.27</u> | <u>1480.99</u> | <u>1963.74</u> |
| <u>Mozambique</u> | <u>73.84</u> | <u>376.41</u> | <u>723.77</u> | <u>1106.72</u> | <u>1512.97</u> |
| <u>Burma</u> | <u>108.70</u> | <u>782.05</u> | <u>1556.50</u> | <u>2411.44</u> | <u>3319.44</u> |
| <u>Namibia</u> | <u>21.39</u> | <u>47.25</u> | <u>76.54</u> | <u>108.52</u> | <u>142.16</u> |
| <u>Nauru</u> | | | | | |
| <u>Nepal</u> | <u>29.89</u> | <u>378.09</u> | <u>779.25</u> | <u>1222.65</u> | <u>1694.07</u> |
| <u>Netherlands</u> | <u>1124.83</u> | <u>1030.69</u> | <u>892.78</u> | <u>948.15</u> | <u>992.90</u> |
| <u>New Caledonia</u> | <u>16.70</u> | <u>15.86</u> | <u>14.45</u> | <u>15.34</u> | <u>16.07</u> |
| <u>New Zealand</u> | <u>262.53</u> | <u>252.80</u> | <u>234.75</u> | <u>249.31</u> | <u>261.08</u> |
| <u>Nicaragua</u> | <u>25.49</u> | <u>93.60</u> | <u>171.56</u> | <u>257.33</u> | <u>348.15</u> |
| <u>Niger</u> | <u>9.96</u> | <u>235.14</u> | <u>494.81</u> | <u>782.00</u> | <u>1087.52</u> |
| <u>Nigeria</u> | <u>381.49</u> | <u>2578.97</u> | <u>5105.68</u> | <u>7894.46</u> | <u>10855.82</u> |
| <u>Niue</u> | | | | | |
| <u>Northern Mariana Islands</u> | | | | | |
| <u>Norway</u> | <u>560.22</u> | <u>435.16</u> | <u>276.23</u> | <u>293.36</u> | <u>307.21</u> |
| <u>Oman</u> | <u>334.31</u> | <u>264.88</u> | <u>176.03</u> | <u>186.95</u> | <u>195.77</u> |
| <u>Pakistan</u> | <u>775.28</u> | <u>3096.71</u> | <u>5756.27</u> | <u>8684.07</u> | <u>11786.01</u> |
| <u>Panama</u> | <u>101.38</u> | <u>145.78</u> | <u>194.39</u> | <u>206.45</u> | <u>216.19</u> |
| <u>Papua New Guinea</u> | <u>29.59</u> | <u>107.01</u> | <u>195.61</u> | <u>293.07</u> | <u>396.26</u> |
| <u>Paraguay</u> | <u>132.44</u> | <u>208.17</u> | <u>292.14</u> | <u>382.38</u> | <u>400.43</u> |
| <u>Peru</u> | <u>308.82</u> | <u>628.11</u> | <u>988.65</u> | <u>1381.41</u> | <u>1793.68</u> |
| <u>Philippines</u> | <u>401.41</u> | <u>1579.48</u> | <u>2928.93</u> | <u>4414.32</u> | <u>5987.91</u> |
| <u>Poland</u> | <u>1118.67</u> | <u>1551.05</u> | <u>2021.08</u> | <u>2146.44</u> | <u>2247.75</u> |
| <u>Portugal</u> | <u>300.33</u> | <u>428.38</u> | <u>568.38</u> | <u>603.64</u> | <u>632.13</u> |
| <u>Puerto Rico</u> | <u>112.22</u> | <u>148.62</u> | <u>187.72</u> | <u>199.36</u> | <u>208.77</u> |
| <u>Qatar</u> | <u>611.78</u> | <u>390.18</u> | <u>118.48</u> | <u>125.83</u> | <u>131.77</u> |
| <u>Romania</u> | <u>391.16</u> | <u>636.42</u> | <u>909.37</u> | <u>1203.50</u> | <u>1260.30</u> |
| <u>Russia</u> | <u>8988.07</u> | <u>8391.17</u> | <u>7468.51</u> | <u>7931.77</u> | <u>8306.14</u> |
| <u>Rwanda</u> | <u>4.10</u> | <u>161.52</u> | <u>343.13</u> | <u>544.05</u> | <u>757.85</u> |

| <u>Country</u> | <u>2020</u> | <u>2030</u> | <u>2040</u> | <u>2050</u> | <u>2060</u> |
|---|----------------|----------------|----------------|----------------|----------------|
| <u>Saint Helena</u> | | | | | |
| <u>Saint Kitts and Nevis</u> | <u>4.10</u> | <u>3.52</u> | <u>2.75</u> | <u>2.92</u> | <u>3.05</u> |
| <u>Saint Lucia</u> | <u>1.76</u> | <u>3.45</u> | <u>5.35</u> | <u>7.42</u> | <u>9.60</u> |
| <u>Saint Pierre and Miquelon</u> | <u>0.29</u> | <u>0.30</u> | <u>0.29</u> | <u>0.31</u> | <u>0.33</u> |
| <u>Saint Vincent and the Grenadines</u> | <u>0.88</u> | <u>1.97</u> | <u>3.20</u> | <u>4.55</u> | <u>5.97</u> |
| <u>Samoa</u> | <u>0.59</u> | <u>2.90</u> | <u>5.56</u> | <u>8.50</u> | <u>11.61</u> |
| <u>Sao Tome and Principe</u> | <u>0.59</u> | <u>2.89</u> | <u>5.53</u> | <u>8.44</u> | <u>11.53</u> |
| <u>Saudi Arabia</u> | <u>3022.59</u> | <u>2341.81</u> | <u>1477.40</u> | <u>1569.04</u> | <u>1643.09</u> |
| <u>Senegal</u> | <u>29.89</u> | <u>198.93</u> | <u>393.28</u> | <u>607.78</u> | <u>835.55</u> |
| <u>Serbia</u> | <u>104.89</u> | <u>192.61</u> | <u>291.13</u> | <u>398.05</u> | <u>416.83</u> |
| <u>Seychelles</u> | <u>4.10</u> | <u>4.52</u> | <u>4.89</u> | <u>5.19</u> | <u>5.44</u> |
| <u>Sierra Leone</u> | <u>0.59</u> | <u>73.77</u> | <u>158.23</u> | <u>251.70</u> | <u>351.19</u> |
| <u>Singapore</u> | <u>967.49</u> | <u>670.87</u> | <u>303.33</u> | <u>322.15</u> | <u>337.35</u> |
| <u>Slovakia</u> | <u>198.65</u> | <u>241.46</u> | <u>285.71</u> | <u>303.43</u> | <u>317.75</u> |
| <u>Slovenia</u> | <u>82.33</u> | <u>93.28</u> | <u>103.77</u> | <u>110.21</u> | <u>115.41</u> |
| <u>Solomon Islands</u> | <u>0.88</u> | <u>8.45</u> | <u>17.18</u> | <u>26.81</u> | <u>37.05</u> |
| <u>Somalia</u> | <u>3.52</u> | <u>134.61</u> | <u>285.83</u> | <u>453.14</u> | <u>631.17</u> |
| <u>South Africa</u> | <u>1611.50</u> | <u>2205.29</u> | <u>2848.82</u> | <u>3025.53</u> | <u>3168.33</u> |
| <u>South Sudan</u> | | | | | |
| <u>Spain</u> | <u>1636.70</u> | <u>2079.37</u> | <u>2547.83</u> | <u>2705.87</u> | <u>2833.58</u> |
| <u>Sri Lanka</u> | <u>83.80</u> | <u>339.61</u> | <u>632.72</u> | <u>955.43</u> | <u>1297.37</u> |
| <u>Sudan</u> | <u>88.49</u> | <u>519.95</u> | <u>1015.71</u> | <u>1562.60</u> | <u>2143.09</u> |
| <u>Suriname</u> | <u>14.36</u> | <u>22.13</u> | <u>30.73</u> | <u>32.64</u> | <u>34.18</u> |
| <u>Swaziland</u> | <u>5.57</u> | <u>22.25</u> | <u>41.36</u> | <u>62.40</u> | <u>84.69</u> |
| <u>Sweden</u> | <u>617.35</u> | <u>578.86</u> | <u>518.37</u> | <u>550.53</u> | <u>576.51</u> |
| <u>Switzerland</u> | <u>364.49</u> | <u>398.89</u> | <u>429.12</u> | <u>455.73</u> | <u>477.24</u> |
| <u>Syria</u> | <u>161.15</u> | <u>341.69</u> | <u>545.90</u> | <u>768.65</u> | <u>1002.72</u> |
| <u>Taiwan</u> | <u>149.14</u> | <u>408.28</u> | <u>703.54</u> | <u>1027.30</u> | <u>1369.12</u> |
| <u>Tajikistan</u> | <u>55.96</u> | <u>147.43</u> | <u>251.56</u> | <u>365.68</u> | <u>486.09</u> |
| <u>Tanzania</u> | <u>49.22</u> | <u>679.50</u> | <u>1405.77</u> | <u>2208.60</u> | <u>3062.26</u> |
| <u>Thailand</u> | <u>1507.49</u> | <u>2208.49</u> | <u>2978.49</u> | <u>3800.02</u> | <u>3979.37</u> |
| <u>Timor-Leste</u> | <u>1.76</u> | <u>16.80</u> | <u>34.12</u> | <u>53.25</u> | <u>73.58</u> |
| <u>Togo</u> | <u>9.96</u> | <u>102.64</u> | <u>209.36</u> | <u>327.27</u> | <u>452.60</u> |
| <u>Tonga</u> | <u>0.88</u> | <u>2.02</u> | <u>3.31</u> | <u>4.73</u> | <u>6.21</u> |
| <u>Trinidad and Tobago</u> | <u>300.62</u> | <u>194.43</u> | <u>64.03</u> | <u>68.00</u> | <u>71.21</u> |
| <u>Tunisia</u> | <u>104.60</u> | <u>222.10</u> | <u>355.00</u> | <u>499.98</u> | <u>652.33</u> |
| <u>Turkey</u> | <u>1518.62</u> | <u>2412.64</u> | <u>3405.17</u> | <u>4472.75</u> | <u>4683.85</u> |
| <u>Turkmenistan</u> | <u>407.27</u> | <u>352.00</u> | <u>277.60</u> | <u>294.82</u> | <u>308.74</u> |
| <u>Turks and Caicos Islands</u> | <u>0.88</u> | <u>1.48</u> | <u>2.14</u> | <u>2.87</u> | <u>3.00</u> |
| <u>U.S. Virgin Islands</u> | | | | | |

| <u>Country</u> | <u>2020</u> | <u>2030</u> | <u>2040</u> | <u>2050</u> | <u>2060</u> |
|-----------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | | | | | |
| <u>Uganda</u> | <u>21.68</u> | <u>484.41</u> | <u>1017.98</u> | <u>1608.10</u> | <u>2235.85</u> |
| <u>Ukraine</u> | <u>1219.47</u> | <u>1744.75</u> | <u>2319.41</u> | <u>2463.28</u> | <u>2579.54</u> |
| <u>United Arab Emirates</u> | <u>1195.15</u> | <u>799.15</u> | <u>310.98</u> | <u>330.27</u> | <u>345.86</u> |
| <u>United Kingdom</u> | <u>2348.69</u> | <u>2855.87</u> | <u>3380.27</u> | <u>3589.94</u> | <u>3759.38</u> |
| <u>United States</u> | <u>28802.19</u> | <u>23670.48</u> | <u>16998.05</u> | <u>18052.42</u> | <u>18904.46</u> |
| <u>Uruguay</u> | <u>67.68</u> | <u>103.85</u> | <u>143.83</u> | <u>186.71</u> | <u>195.52</u> |
| <u>Uzbekistan</u> | <u>581.02</u> | <u>902.95</u> | <u>1259.46</u> | <u>1642.21</u> | <u>1719.72</u> |
| <u>Vanuatu</u> | <u>0.59</u> | <u>3.86</u> | <u>7.63</u> | <u>11.78</u> | <u>16.19</u> |
| <u>Venezuela</u> | <u>965.14</u> | <u>1281.59</u> | <u>1621.78</u> | <u>1722.38</u> | <u>1803.67</u> |
| <u>Vietnam</u> | <u>661.59</u> | <u>1703.65</u> | <u>2889.33</u> | <u>4188.16</u> | <u>5558.28</u> |
| <u>West Bank</u> | | | | | |
| <u>Western Sahara</u> | <u>1.17</u> | <u>8.11</u> | <u>16.09</u> | <u>24.90</u> | <u>34.25</u> |
| <u>Yemen</u> | <u>88.49</u> | <u>406.26</u> | <u>770.79</u> | <u>1172.44</u> | <u>1598.31</u> |
| <u>Zambia</u> | <u>50.40</u> | <u>230.28</u> | <u>436.62</u> | <u>663.96</u> | <u>905.02</u> |
| <u>Zimbabwe</u> | <u>46.59</u> | <u>215.42</u> | <u>409.09</u> | <u>622.50</u> | <u>848.78</u> |

Annex III – Evolution of the consumption per country on a 66% vs current USA consumption basis

| <u>Country</u> | <u>2020</u> | <u>2030</u> | <u>2040</u> | <u>2050</u> | <u>2060</u> |
|---------------------------------|----------------|----------------|-----------------|-----------------|-----------------|
| <u>Afghanistan</u> | <u>91.12</u> | <u>610.63</u> | <u>1207.94</u> | <u>1867.18</u> | <u>2567.21</u> |
| <u>Albania</u> | <u>33.40</u> | <u>76.29</u> | <u>124.93</u> | <u>178.08</u> | <u>234.03</u> |
| <u>Algeria</u> | <u>701.15</u> | <u>1375.07</u> | <u>2134.76</u> | <u>2961.31</u> | <u>3101.08</u> |
| <u>American Samoa</u> | <u>1.47</u> | <u>2.23</u> | <u>3.08</u> | <u>3.99</u> | <u>4.17</u> |
| <u>Andorra</u> | | | | | |
| <u>Angola</u> | <u>95.52</u> | <u>402.72</u> | <u>754.86</u> | <u>1142.66</u> | <u>1553.66</u> |
| <u>Antigua and Barbuda</u> | <u>2.93</u> | <u>4.61</u> | <u>6.48</u> | <u>6.88</u> | <u>7.21</u> |
| <u>Argentina</u> | <u>1101.09</u> | <u>1744.87</u> | <u>2459.39</u> | <u>3227.78</u> | <u>3380.12</u> |
| <u>Armenia</u> | <u>43.95</u> | <u>85.16</u> | <u>131.59</u> | <u>182.08</u> | <u>235.00</u> |
| <u>Aruba</u> | <u>5.27</u> | <u>6.54</u> | <u>7.87</u> | <u>8.36</u> | <u>8.75</u> |
| <u>Australia</u> | <u>1648.13</u> | <u>1642.10</u> | <u>1592.29</u> | <u>1691.06</u> | <u>1770.88</u> |
| <u>Austria</u> | <u>416.06</u> | <u>508.00</u> | <u>603.31</u> | <u>640.73</u> | <u>670.97</u> |
| <u>Azerbaijan</u> | <u>176.97</u> | <u>340.86</u> | <u>525.44</u> | <u>726.12</u> | <u>760.39</u> |
| <u>Bahamas, The</u> | <u>14.65</u> | <u>18.55</u> | <u>22.67</u> | <u>24.07</u> | <u>25.21</u> |
| <u>Bahrain</u> | <u>215.94</u> | <u>162.64</u> | <u>95.49</u> | <u>101.42</u> | <u>106.20</u> |
| <u>Bangladesh</u> | <u>333.14</u> | <u>2784.14</u> | <u>5604.75</u> | <u>8719.82</u> | <u>12029.39</u> |
| <u>Barbados</u> | <u>7.33</u> | <u>11.60</u> | <u>16.34</u> | <u>21.44</u> | <u>22.45</u> |
| <u>Belarus</u> | <u>327.87</u> | <u>487.28</u> | <u>662.77</u> | <u>703.88</u> | <u>737.10</u> |
| <u>Belgium</u> | <u>723.71</u> | <u>763.26</u> | <u>790.10</u> | <u>839.11</u> | <u>878.72</u> |
| <u>Belize</u> | <u>2.93</u> | <u>8.10</u> | <u>13.98</u> | <u>20.44</u> | <u>27.25</u> |
| <u>Benin</u> | <u>25.49</u> | <u>193.59</u> | <u>386.98</u> | <u>600.50</u> | <u>827.30</u> |
| <u>Bermuda</u> | <u>2.05</u> | <u>3.01</u> | <u>4.06</u> | <u>5.19</u> | <u>5.43</u> |
| <u>Bhutan</u> | <u>17.58</u> | <u>28.92</u> | <u>41.55</u> | <u>55.17</u> | <u>57.77</u> |
| <u>Bolivia</u> | <u>89.95</u> | <u>250.24</u> | <u>432.92</u> | <u>633.29</u> | <u>844.87</u> |
| <u>Bosnia and Herzegovina</u> | <u>72.08</u> | <u>135.42</u> | <u>206.66</u> | <u>284.04</u> | <u>297.44</u> |
| <u>Botswana</u> | <u>21.39</u> | <u>53.09</u> | <u>89.12</u> | <u>128.56</u> | <u>170.15</u> |
| <u>Brazil</u> | <u>3751.28</u> | <u>7151.24</u> | <u>10978.42</u> | <u>15137.90</u> | <u>15852.38</u> |
| <u>British Virgin Islands</u> | <u>0.59</u> | <u>1.16</u> | <u>1.81</u> | <u>2.52</u> | <u>2.64</u> |
| <u>Brunei</u> | <u>45.71</u> | <u>39.08</u> | <u>30.24</u> | <u>32.11</u> | <u>33.63</u> |
| <u>Bulgaria</u> | <u>227.66</u> | <u>354.40</u> | <u>494.78</u> | <u>525.47</u> | <u>550.28</u> |
| <u>Burkina Faso</u> | <u>14.06</u> | <u>325.18</u> | <u>683.94</u> | <u>1080.74</u> | <u>1502.84</u> |
| <u>Burundi</u> | <u>1.76</u> | <u>179.84</u> | <u>385.36</u> | <u>612.80</u> | <u>854.86</u> |
| <u>Cape Verde</u> | <u>4.10</u> | <u>12.27</u> | <u>21.58</u> | <u>31.81</u> | <u>42.62</u> |
| <u>Cambodia</u> | <u>29.30</u> | <u>280.56</u> | <u>569.83</u> | <u>889.40</u> | <u>1229.01</u> |
| <u>Cameroon</u> | <u>45.42</u> | <u>428.87</u> | <u>870.32</u> | <u>1358.00</u> | <u>1876.25</u> |
| <u>Canada</u> | <u>4264.03</u> | <u>3472.96</u> | <u>2448.96</u> | <u>2600.87</u> | <u>2723.62</u> |
| <u>Cayman Islands</u> | <u>2.34</u> | <u>3.13</u> | <u>3.97</u> | <u>4.21</u> | <u>4.41</u> |
| <u>Central African Republic</u> | <u>2.05</u> | <u>90.20</u> | <u>191.91</u> | <u>304.43</u> | <u>424.16</u> |
| <u>Chad</u> | <u>1.47</u> | <u>191.71</u> | <u>411.27</u> | <u>654.25</u> | <u>912.87</u> |

| <u>Country</u> | <u>2020</u> | <u>2030</u> | <u>2040</u> | <u>2050</u> | <u>2060</u> |
|--|-----------------|-----------------|-----------------|------------------|------------------|
| | | | | | |
| <u>Chile</u> | <u>404.34</u> | <u>673.62</u> | <u>973.96</u> | <u>1298.13</u> | <u>1359.40</u> |
| <u>China</u> | <u>35023.17</u> | <u>55020.42</u> | <u>77193.51</u> | <u>101021.06</u> | <u>105789.05</u> |
| <u>Colombia</u> | <u>486.38</u> | <u>1158.69</u> | <u>1922.12</u> | <u>2757.17</u> | <u>3636.91</u> |
| <u>Comoros</u> | <u>0.88</u> | <u>13.50</u> | <u>28.04</u> | <u>44.11</u> | <u>61.21</u> |
| <u>Congo, Democratic Republic of the</u> | <u>40.73</u> | <u>1340.69</u> | <u>2840.21</u> | <u>4499.06</u> | <u>6264.05</u> |
| <u>Congo, Republic of the</u> | <u>28.42</u> | <u>101.35</u> | <u>184.79</u> | <u>276.57</u> | <u>373.73</u> |
| <u>Cook Islands</u> | <u>0.29</u> | <u>0.47</u> | <u>0.66</u> | <u>0.70</u> | <u>0.74</u> |
| <u>Costa Rica</u> | <u>56.84</u> | <u>125.03</u> | <u>202.26</u> | <u>286.59</u> | <u>375.28</u> |
| <u>Croatia</u> | <u>106.07</u> | <u>169.93</u> | <u>240.89</u> | <u>317.26</u> | <u>332.24</u> |
| <u>Cuba</u> | <u>123.65</u> | <u>505.29</u> | <u>942.62</u> | <u>1424.13</u> | <u>1934.36</u> |
| <u>Curacao</u> | | | | | |
| <u>Cyprus</u> | <u>28.71</u> | <u>46.81</u> | <u>66.96</u> | <u>88.67</u> | <u>92.85</u> |
| <u>Czech Republic</u> | <u>474.37</u> | <u>602.08</u> | <u>737.18</u> | <u>782.91</u> | <u>819.86</u> |
| <u>Denmark</u> | <u>210.96</u> | <u>295.40</u> | <u>387.38</u> | <u>411.41</u> | <u>430.83</u> |
| <u>Djibouti</u> | <u>3.52</u> | <u>16.50</u> | <u>31.39</u> | <u>47.81</u> | <u>65.21</u> |
| <u>Dominica</u> | <u>0.59</u> | <u>1.67</u> | <u>2.90</u> | <u>4.25</u> | <u>5.68</u> |
| <u>Dominican Republic</u> | <u>89.37</u> | <u>243.92</u> | <u>420.01</u> | <u>613.09</u> | <u>816.93</u> |
| <u>Ecuador</u> | <u>208.62</u> | <u>429.91</u> | <u>679.93</u> | <u>952.41</u> | <u>1238.53</u> |
| <u>Egypt</u> | <u>1050.11</u> | <u>2384.57</u> | <u>3897.69</u> | <u>5551.01</u> | <u>7291.18</u> |
| <u>El Salvador</u> | <u>36.92</u> | <u>129.30</u> | <u>234.97</u> | <u>351.18</u> | <u>474.18</u> |
| <u>Equatorial Guinea</u> | <u>17.87</u> | <u>29.33</u> | <u>42.09</u> | <u>55.86</u> | <u>58.49</u> |
| <u>Eritrea</u> | <u>2.34</u> | <u>96.27</u> | <u>204.63</u> | <u>324.52</u> | <u>452.09</u> |
| <u>Estonia</u> | <u>25.49</u> | <u>45.59</u> | <u>68.13</u> | <u>92.56</u> | <u>96.93</u> |
| <u>Ethiopia</u> | <u>65.05</u> | <u>1698.89</u> | <u>3583.20</u> | <u>5667.43</u> | <u>7884.77</u> |
| <u>Falkland Islands</u> | | | | | |
| <u>Faroe Islands</u> | <u>3.22</u> | <u>3.39</u> | <u>3.49</u> | <u>3.71</u> | <u>3.89</u> |
| <u>Fiji</u> | <u>10.26</u> | <u>23.14</u> | <u>37.75</u> | <u>53.70</u> | <u>70.50</u> |
| <u>Finland</u> | <u>337.83</u> | <u>361.83</u> | <u>380.76</u> | <u>404.38</u> | <u>423.47</u> |
| <u>France</u> | <u>2991.24</u> | <u>3787.34</u> | <u>4628.55</u> | <u>4915.66</u> | <u>5147.67</u> |
| <u>French Polynesia</u> | <u>4.69</u> | <u>9.54</u> | <u>15.02</u> | <u>20.98</u> | <u>21.98</u> |
| <u>Gabon</u> | <u>18.75</u> | <u>43.35</u> | <u>71.27</u> | <u>101.78</u> | <u>133.90</u> |
| <u>Gambia, The</u> | <u>2.05</u> | <u>33.99</u> | <u>70.80</u> | <u>111.50</u> | <u>154.78</u> |
| <u>Gaza Strip</u> | | | | | |
| <u>Georgia</u> | <u>60.65</u> | <u>129.05</u> | <u>206.43</u> | <u>290.84</u> | <u>379.55</u> |
| <u>Germany</u> | <u>3828.92</u> | <u>4692.69</u> | <u>5590.24</u> | <u>5936.99</u> | <u>6217.21</u> |
| <u>Ghana</u> | <u>78.52</u> | <u>497.02</u> | <u>978.07</u> | <u>1508.89</u> | <u>2072.45</u> |
| <u>Gibraltar</u> | <u>53.03</u> | <u>30.00</u> | <u>2.03</u> | <u>2.16</u> | <u>2.26</u> |
| <u>Greece</u> | <u>314.98</u> | <u>460.97</u> | <u>621.31</u> | <u>792.35</u> | <u>829.75</u> |
| <u>Greenland</u> | <u>3.81</u> | <u>3.94</u> | <u>4.00</u> | <u>4.25</u> | <u>4.45</u> |
| <u>Grenada</u> | <u>1.47</u> | <u>2.99</u> | <u>4.72</u> | <u>6.59</u> | <u>8.57</u> |
| <u>Guam</u> | <u>7.91</u> | <u>9.57</u> | <u>11.27</u> | <u>11.97</u> | <u>12.53</u> |
| <u>Guatemala</u> | <u>70.61</u> | <u>302.18</u> | <u>567.64</u> | <u>860.02</u> | <u>1169.92</u> |

| <u>Country</u> | <u>2020</u> | <u>2030</u> | <u>2040</u> | <u>2050</u> | <u>2060</u> |
|----------------------|----------------|-----------------|-----------------|-----------------|-----------------|
| | | | | | |
| <u>Guinea</u> | <u>11.13</u> | <u>203.52</u> | <u>425.32</u> | <u>670.57</u> | <u>931.42</u> |
| <u>Guinea-Bissau</u> | <u>1.47</u> | <u>29.48</u> | <u>61.78</u> | <u>97.50</u> | <u>135.49</u> |
| <u>Guyana</u> | <u>7.91</u> | <u>18.33</u> | <u>30.15</u> | <u>43.07</u> | <u>56.68</u> |
| <u>Haiti</u> | <u>11.13</u> | <u>177.69</u> | <u>369.65</u> | <u>581.90</u> | <u>807.61</u> |
| <u>Honduras</u> | <u>43.07</u> | <u>178.34</u> | <u>333.36</u> | <u>504.06</u> | <u>684.95</u> |
| <u>Hong Kong</u> | <u>344.28</u> | <u>419.02</u> | <u>496.36</u> | <u>527.15</u> | <u>552.03</u> |
| <u>Hungary</u> | <u>277.18</u> | <u>414.10</u> | <u>564.95</u> | <u>726.27</u> | <u>760.55</u> |
| <u>Iceland</u> | <u>60.07</u> | <u>43.71</u> | <u>23.26</u> | <u>24.70</u> | <u>25.87</u> |
| <u>India</u> | <u>7124.00</u> | <u>26217.04</u> | <u>48071.61</u> | <u>72115.04</u> | <u>97574.38</u> |
| <u>Indonesia</u> | <u>2139.19</u> | <u>5909.91</u> | <u>10206.96</u> | <u>14919.35</u> | <u>19895.30</u> |
| <u>Iran</u> | <u>3138.32</u> | <u>4381.15</u> | <u>5734.20</u> | <u>6089.89</u> | <u>6377.32</u> |
| <u>Iraq</u> | <u>520.08</u> | <u>1040.53</u> | <u>1627.78</u> | <u>2267.15</u> | <u>2937.98</u> |
| <u>Ireland</u> | <u>164.96</u> | <u>249.58</u> | <u>342.97</u> | <u>364.24</u> | <u>381.44</u> |
| <u>Israel</u> | <u>271.32</u> | <u>411.43</u> | <u>566.10</u> | <u>601.22</u> | <u>629.60</u> |
| <u>Italy</u> | <u>1932.92</u> | <u>3052.29</u> | <u>4294.16</u> | <u>4560.52</u> | <u>4775.77</u> |
| <u>Cote d'Ivoire</u> | <u>48.05</u> | <u>421.06</u> | <u>850.40</u> | <u>1324.60</u> | <u>1828.47</u> |
| <u>Jamaica</u> | <u>34.57</u> | <u>76.16</u> | <u>123.26</u> | <u>174.68</u> | <u>228.77</u> |
| <u>Japan</u> | <u>5595.13</u> | <u>7138.40</u> | <u>8774.41</u> | <u>9318.68</u> | <u>9758.50</u> |
| <u>Jersey</u> | | | | | |
| <u>Jordan</u> | <u>93.17</u> | <u>208.13</u> | <u>338.42</u> | <u>480.71</u> | <u>630.43</u> |
| <u>Kazakhstan</u> | <u>778.50</u> | <u>1016.73</u> | <u>1271.50</u> | <u>1350.37</u> | <u>1414.10</u> |
| <u>Kenya</u> | <u>79.11</u> | <u>817.07</u> | <u>1666.87</u> | <u>2605.81</u> | <u>3603.79</u> |
| <u>Kiribati</u> | | | | | |
| <u>Korea, North</u> | <u>181.37</u> | <u>371.11</u> | <u>585.42</u> | <u>818.93</u> | <u>857.58</u> |
| <u>Korea, South</u> | <u>3252.30</u> | <u>3418.87</u> | <u>3526.61</u> | <u>3745.37</u> | <u>3922.14</u> |
| <u>Kosovo</u> | | | | | |
| <u>Kuwait</u> | <u>483.45</u> | <u>355.94</u> | <u>196.18</u> | <u>208.34</u> | <u>218.18</u> |
| <u>Kyrgyzstan</u> | <u>72.96</u> | <u>152.02</u> | <u>241.38</u> | <u>338.80</u> | <u>441.13</u> |
| <u>Laos</u> | <u>36.63</u> | <u>142.92</u> | <u>264.66</u> | <u>398.66</u> | <u>540.60</u> |
| <u>Latvia</u> | <u>41.90</u> | <u>72.73</u> | <u>107.24</u> | <u>144.57</u> | <u>151.40</u> |
| <u>Lebanon</u> | <u>88.78</u> | <u>173.22</u> | <u>268.38</u> | <u>371.90</u> | <u>480.43</u> |
| <u>Lesotho</u> | <u>4.69</u> | <u>35.24</u> | <u>70.39</u> | <u>109.20</u> | <u>150.42</u> |
| <u>Liberia</u> | <u>4.10</u> | <u>72.48</u> | <u>151.31</u> | <u>238.47</u> | <u>331.18</u> |
| <u>Libya</u> | <u>217.70</u> | <u>329.57</u> | <u>453.04</u> | <u>481.15</u> | <u>503.86</u> |
| <u>Liechtenstein</u> | | | | | |
| <u>Lithuania</u> | <u>75.30</u> | <u>116.18</u> | <u>161.40</u> | <u>209.92</u> | <u>219.83</u> |
| <u>Luxembourg</u> | <u>52.45</u> | <u>47.45</u> | <u>40.32</u> | <u>42.83</u> | <u>44.85</u> |
| <u>Macau</u> | <u>10.55</u> | <u>20.51</u> | <u>31.73</u> | <u>43.94</u> | <u>46.01</u> |
| <u>Macedonia</u> | <u>32.52</u> | <u>68.76</u> | <u>109.75</u> | <u>154.45</u> | <u>161.74</u> |
| <u>Madagascar</u> | <u>14.94</u> | <u>404.94</u> | <u>854.75</u> | <u>1352.28</u> | <u>1881.60</u> |
| <u>Malawi</u> | <u>10.26</u> | <u>306.90</u> | <u>649.07</u> | <u>1027.57</u> | <u>1430.27</u> |
| <u>Malaysia</u> | <u>1012.32</u> | <u>1549.54</u> | <u>2143.35</u> | <u>2276.30</u> | <u>2383.74</u> |

| <u>Country</u> | <u>2020</u> | <u>2030</u> | <u>2040</u> | <u>2050</u> | <u>2060</u> |
|--|----------------|----------------|----------------|-----------------|-----------------|
| | | | | | |
| <u>Maldives</u> | <u>6.74</u> | <u>13.34</u> | <u>20.79</u> | <u>28.90</u> | <u>30.27</u> |
| <u>Mali</u> | <u>7.03</u> | <u>286.52</u> | <u>608.97</u> | <u>965.71</u> | <u>1345.30</u> |
| <u>Malta</u> | <u>26.66</u> | <u>27.95</u> | <u>28.75</u> | <u>30.54</u> | <u>31.98</u> |
| <u>Marshall Islands</u> | | | | | |
| <u>Mauritania</u> | <u>10.26</u> | <u>67.53</u> | <u>133.38</u> | <u>206.06</u> | <u>283.22</u> |
| <u>Mauritius</u> | <u>22.56</u> | <u>45.37</u> | <u>71.12</u> | <u>99.16</u> | <u>103.84</u> |
| <u>Mexico</u> | <u>2197.50</u> | <u>4244.81</u> | <u>6550.98</u> | <u>9058.66</u> | <u>9486.21</u> |
| <u>Micronesia, Federated States of</u> | | | | | |
| <u>Moldova</u> | <u>41.90</u> | <u>90.86</u> | <u>146.28</u> | <u>206.77</u> | <u>270.37</u> |
| <u>Mongolia</u> | <u>63.29</u> | <u>111.20</u> | <u>164.85</u> | <u>222.95</u> | <u>233.47</u> |
| <u>Montenegro</u> | <u>12.01</u> | <u>22.59</u> | <u>34.49</u> | <u>47.41</u> | <u>49.64</u> |
| <u>Montserrat</u> | <u>0.29</u> | <u>0.33</u> | <u>0.36</u> | <u>0.39</u> | <u>0.41</u> |
| <u>Morocco</u> | <u>237.92</u> | <u>736.47</u> | <u>1305.78</u> | <u>1931.04</u> | <u>2592.14</u> |
| <u>Mozambique</u> | <u>73.84</u> | <u>477.45</u> | <u>941.44</u> | <u>1453.47</u> | <u>1997.12</u> |
| <u>Burma</u> | <u>108.70</u> | <u>1003.72</u> | <u>2034.05</u> | <u>3172.19</u> | <u>4381.66</u> |
| <u>Namibia</u> | <u>21.39</u> | <u>56.74</u> | <u>96.99</u> | <u>141.10</u> | <u>187.65</u> |
| <u>Nauru</u> | | | | | |
| <u>Nepal</u> | <u>29.89</u> | <u>491.22</u> | <u>1022.97</u> | <u>1610.90</u> | <u>2236.17</u> |
| <u>Netherlands</u> | <u>1124.83</u> | <u>1163.30</u> | <u>1178.46</u> | <u>1251.56</u> | <u>1310.63</u> |
| <u>New Caledonia</u> | <u>16.70</u> | <u>18.00</u> | <u>19.07</u> | <u>20.25</u> | <u>21.21</u> |
| <u>New Zealand</u> | <u>262.53</u> | <u>287.67</u> | <u>309.87</u> | <u>329.09</u> | <u>344.63</u> |
| <u>Nicaragua</u> | <u>25.49</u> | <u>116.85</u> | <u>221.65</u> | <u>337.12</u> | <u>459.56</u> |
| <u>Niger</u> | <u>9.96</u> | <u>307.76</u> | <u>651.26</u> | <u>1031.24</u> | <u>1435.53</u> |
| <u>Nigeria</u> | <u>381.49</u> | <u>3303.91</u> | <u>6667.45</u> | <u>10382.43</u> | <u>14329.69</u> |
| <u>Niue</u> | | | | | |
| <u>Northern Mariana Islands</u> | | | | | |
| <u>Norway</u> | <u>560.22</u> | <u>476.19</u> | <u>364.62</u> | <u>387.24</u> | <u>405.52</u> |
| <u>Oman</u> | <u>334.31</u> | <u>291.02</u> | <u>232.36</u> | <u>246.77</u> | <u>258.42</u> |
| <u>Pakistan</u> | <u>775.28</u> | <u>3883.77</u> | <u>7451.87</u> | <u>11385.22</u> | <u>15557.54</u> |
| <u>Panama</u> | <u>101.38</u> | <u>153.46</u> | <u>210.95</u> | <u>272.51</u> | <u>285.38</u> |
| <u>Papua New Guinea</u> | <u>29.59</u> | <u>133.48</u> | <u>252.62</u> | <u>383.89</u> | <u>523.06</u> |
| <u>Paraguay</u> | <u>132.44</u> | <u>243.82</u> | <u>368.95</u> | <u>504.75</u> | <u>528.57</u> |
| <u>Peru</u> | <u>308.82</u> | <u>747.89</u> | <u>1246.70</u> | <u>1792.49</u> | <u>2367.65</u> |
| <u>Philippines</u> | <u>401.41</u> | <u>1979.35</u> | <u>3790.38</u> | <u>5786.64</u> | <u>7904.04</u> |
| <u>Poland</u> | <u>1118.67</u> | <u>1642.78</u> | <u>2218.68</u> | <u>2833.31</u> | <u>2967.03</u> |
| <u>Portugal</u> | <u>300.33</u> | <u>451.56</u> | <u>618.34</u> | <u>796.80</u> | <u>834.41</u> |
| <u>Puerto Rico</u> | <u>112.22</u> | <u>176.50</u> | <u>247.79</u> | <u>263.16</u> | <u>275.58</u> |
| <u>Qatar</u> | <u>611.78</u> | <u>407.78</u> | <u>156.39</u> | <u>166.09</u> | <u>173.93</u> |
| <u>Romania</u> | <u>391.16</u> | <u>748.63</u> | <u>1151.12</u> | <u>1588.62</u> | <u>1663.59</u> |
| <u>Russia</u> | <u>8988.07</u> | <u>9500.53</u> | <u>9858.43</u> | <u>10469.94</u> | <u>10964.10</u> |
| <u>Rwanda</u> | <u>4.10</u> | <u>212.13</u> | <u>452.16</u> | <u>717.74</u> | <u>1000.36</u> |
| <u>Saint Helena</u> | | | | | |

| <u>Country</u> | <u>2020</u> | <u>2030</u> | <u>2040</u> | <u>2050</u> | <u>2060</u> |
|---|----------------|----------------|----------------|----------------|----------------|
| | | | | | |
| <u>Saint Kitts and Nevis</u> | <u>4.10</u> | <u>3.93</u> | <u>3.62</u> | <u>3.85</u> | <u>4.03</u> |
| <u>Saint Lucia</u> | <u>1.76</u> | <u>4.09</u> | <u>6.73</u> | <u>9.62</u> | <u>12.67</u> |
| <u>Saint Pierre and Miquelon</u> | <u>0.29</u> | <u>0.34</u> | <u>0.39</u> | <u>0.41</u> | <u>0.43</u> |
| <u>Saint Vincent and the Grenadines</u> | <u>0.88</u> | <u>2.37</u> | <u>4.06</u> | <u>5.92</u> | <u>7.88</u> |
| <u>Samoa</u> | <u>0.59</u> | <u>3.68</u> | <u>7.23</u> | <u>11.16</u> | <u>15.32</u> |
| <u>Sao Tome and Principe</u> | <u>0.59</u> | <u>3.66</u> | <u>7.19</u> | <u>11.08</u> | <u>15.21</u> |
| <u>Saudi Arabia</u> | <u>3022.59</u> | <u>2561.26</u> | <u>1950.16</u> | <u>2071.13</u> | <u>2168.88</u> |
| <u>Senegal</u> | <u>29.89</u> | <u>254.72</u> | <u>513.49</u> | <u>799.27</u> | <u>1102.92</u> |
| <u>Serbia</u> | <u>104.89</u> | <u>229.72</u> | <u>371.09</u> | <u>525.42</u> | <u>550.22</u> |
| <u>Seychelles</u> | <u>4.10</u> | <u>5.24</u> | <u>6.45</u> | <u>6.85</u> | <u>7.18</u> |
| <u>Sierra Leone</u> | <u>0.59</u> | <u>97.22</u> | <u>208.76</u> | <u>332.19</u> | <u>463.57</u> |
| <u>Singapore</u> | <u>967.49</u> | <u>715.93</u> | <u>400.40</u> | <u>425.23</u> | <u>445.30</u> |
| <u>Slovakia</u> | <u>198.65</u> | <u>283.90</u> | <u>377.13</u> | <u>400.53</u> | <u>419.43</u> |
| <u>Slovenia</u> | <u>82.33</u> | <u>108.69</u> | <u>136.98</u> | <u>145.48</u> | <u>152.35</u> |
| <u>Solomon Islands</u> | <u>0.88</u> | <u>10.93</u> | <u>22.51</u> | <u>35.30</u> | <u>48.91</u> |
| <u>Somalia</u> | <u>3.52</u> | <u>176.75</u> | <u>376.64</u> | <u>597.80</u> | <u>833.14</u> |
| <u>South Africa</u> | <u>1611.50</u> | <u>2628.44</u> | <u>3760.45</u> | <u>3993.70</u> | <u>4182.20</u> |
| <u>South Sudan</u> | | | | | |
| <u>Spain</u> | <u>1636.70</u> | <u>2457.82</u> | <u>3363.13</u> | <u>3571.74</u> | <u>3740.32</u> |
| <u>Sri Lanka</u> | <u>83.80</u> | <u>426.25</u> | <u>819.37</u> | <u>1252.76</u> | <u>1712.52</u> |
| <u>Sudan</u> | <u>88.49</u> | <u>663.07</u> | <u>1324.02</u> | <u>2053.76</u> | <u>2828.88</u> |
| <u>Suriname</u> | <u>14.36</u> | <u>23.04</u> | <u>32.70</u> | <u>43.09</u> | <u>45.12</u> |
| <u>Swaziland</u> | <u>5.57</u> | <u>27.90</u> | <u>53.54</u> | <u>81.81</u> | <u>111.79</u> |
| <u>Sweden</u> | <u>617.35</u> | <u>655.86</u> | <u>684.25</u> | <u>726.70</u> | <u>761.00</u> |
| <u>Switzerland</u> | <u>364.49</u> | <u>462.63</u> | <u>566.43</u> | <u>601.57</u> | <u>629.96</u> |
| <u>Syria</u> | <u>161.15</u> | <u>408.65</u> | <u>690.16</u> | <u>998.45</u> | <u>1323.59</u> |
| <u>Taiwan</u> | <u>149.14</u> | <u>499.71</u> | <u>900.51</u> | <u>1341.08</u> | <u>1807.24</u> |
| <u>Tajikistan</u> | <u>55.96</u> | <u>179.89</u> | <u>321.50</u> | <u>477.08</u> | <u>641.64</u> |
| <u>Tanzania</u> | <u>49.22</u> | <u>884.00</u> | <u>1846.32</u> | <u>2910.42</u> | <u>4042.18</u> |
| <u>Thailand</u> | <u>1507.49</u> | <u>2562.81</u> | <u>3741.82</u> | <u>5016.03</u> | <u>5252.77</u> |
| <u>Timor-Leste</u> | <u>1.76</u> | <u>21.71</u> | <u>44.70</u> | <u>70.11</u> | <u>97.13</u> |
| <u>Togo</u> | <u>9.96</u> | <u>132.86</u> | <u>274.47</u> | <u>431.00</u> | <u>597.43</u> |
| <u>Tonga</u> | <u>0.88</u> | <u>2.43</u> | <u>4.21</u> | <u>6.15</u> | <u>8.20</u> |
| <u>Trinidad and Tobago</u> | <u>300.62</u> | <u>203.94</u> | <u>84.52</u> | <u>89.76</u> | <u>94.00</u> |
| <u>Tunisia</u> | <u>104.60</u> | <u>265.66</u> | <u>448.85</u> | <u>649.48</u> | <u>861.07</u> |
| <u>Turkey</u> | <u>1518.62</u> | <u>2829.69</u> | <u>4303.62</u> | <u>5904.03</u> | <u>6182.69</u> |
| <u>Turkmenistan</u> | <u>407.27</u> | <u>393.23</u> | <u>366.44</u> | <u>389.17</u> | <u>407.53</u> |
| <u>Turks and Caicos Islands</u> | <u>0.88</u> | <u>1.74</u> | <u>2.72</u> | <u>3.78</u> | <u>3.96</u> |
| <u>U.S. Virgin Islands</u> | | | | | |
| <u>Uganda</u> | <u>21.68</u> | <u>633.72</u> | <u>1339.64</u> | <u>2120.52</u> | <u>2951.32</u> |
| <u>Ukraine</u> | <u>1219.47</u> | <u>1838.27</u> | <u>2520.87</u> | <u>3251.53</u> | <u>3405.00</u> |
| <u>United Arab Emirates</u> | <u>1195.15</u> | <u>845.35</u> | <u>410.49</u> | <u>435.95</u> | <u>456.53</u> |

| <u>Country</u> | <u>2020</u> | <u>2030</u> | <u>2040</u> | <u>2050</u> | <u>2060</u> |
|-----------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | | | | | |
| <u>United Kingdom</u> | <u>2348.69</u> | <u>3357.96</u> | <u>4461.95</u> | <u>4738.72</u> | <u>4962.38</u> |
| <u>United States</u> | <u>28802.19</u> | <u>26195.33</u> | <u>22437.42</u> | <u>23829.19</u> | <u>24953.88</u> |
| <u>Uruguay</u> | <u>67.68</u> | <u>121.26</u> | <u>181.34</u> | <u>246.46</u> | <u>258.09</u> |
| <u>Uzbekistan</u> | <u>581.02</u> | <u>1056.07</u> | <u>1589.34</u> | <u>2167.72</u> | <u>2270.03</u> |
| <u>Vanuatu</u> | <u>0.59</u> | <u>4.94</u> | <u>9.96</u> | <u>15.49</u> | <u>21.38</u> |
| <u>Venezuela</u> | <u>965.14</u> | <u>1522.48</u> | <u>2140.75</u> | <u>2273.54</u> | <u>2380.84</u> |
| <u>Vietnam</u> | <u>661.59</u> | <u>2074.83</u> | <u>3688.97</u> | <u>5462.02</u> | <u>7336.93</u> |
| <u>West Bank</u> | | | | | |
| <u>Western Sahara</u> | <u>1.17</u> | <u>10.40</u> | <u>21.02</u> | <u>32.75</u> | <u>45.21</u> |
| <u>Yemen</u> | <u>88.49</u> | <u>513.00</u> | <u>1000.73</u> | <u>1538.74</u> | <u>2109.77</u> |
| <u>Zambia</u> | <u>50.40</u> | <u>290.72</u> | <u>566.82</u> | <u>871.38</u> | <u>1194.62</u> |
| <u>Zimbabwe</u> | <u>46.59</u> | <u>272.10</u> | <u>531.20</u> | <u>817.02</u> | <u>1120.40</u> |