**Table 1: Quantitative emission targets for 2020 submitted at Cancun under the Copenhagen Accord**



Source: Calculations based on Business as Usual (BaU) scenarios of the WITCH model prepared for the The Emission Gap Report, United Nations Environment Program; adjustments were made when countries are not individually represented in the WITCH model .

**Table 2: Target starting points for the 12 modeled regions** (the case of 500 ppm goal)

|  |  |  |
| --- | --- | --- |
|   | 2020 | 2050 |
| EU | 30% below 1990 emissions | 50% below 1990  |
| USA | 17% below 2005 | 83% below 2005 |
| Australia, S.Africa & S.Korea | 34% below baseline | 50% below baseline |
| Japan, Canada & NZ  | 30% below 2005 | 65% below 2005 |
| TE | BAU | Cap based on formula in 2055 |
| LAM | BAU | Cap based on formula in 2040 |
| India | BAU | BAU (cap based on formula, from 2060) |
| EASIA | BAU | BAU (cap based on formula, from 2060) |
| SASIA | BAU | BAU |
| CHINA | BAU | Cap based on formula in 2050 |
| SSA | BAU | BAU |
| MENA | BAU | Cap based on formula in 2065 |

**Table 3: Present discounted value of cost region by region (as percent of income)**

**3a: Measured relative to alternative baseline of no** **international policy
(i.e., BAU criterion)**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| USA | EU | KoSAu | CaJaZ | TE | MENA | SSA | SAsia | China | EAsia | LAm | India |
| 0.6% | 0.2% | 0.7% | 0.7% | 1.2% | 2.2% | -0.1% | -0.2% | 1.1% | 0.1% | 0.5% | 0.4% |

**3b: Measured relative to the alternative of unilateral dropping out
while others continue to cooperate (i.e., Nash criterion)**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| USA | EU | KoSAu | CaJaZ | TE | MENA | SSA | SAsia | China | EAsia | LAm | India |
| 0.7% | 0.3% | 0.8% | 0.6% | 0.8% | 0.8% | -0.1% | 0.1% | 1.0% | 0.4% | 0.4% | 0.7% |

**Table A1: Estimation of Progressivity**

|  |
| --- |
| **Cancun emission target cuts, expressed relative to BAU,regressed against income per capita**(21 country observations, counting EU27 as one) |
|  | Countries submitting negative cuts relative to BAU are: |
|  | taken at face value | set = 0 |
|  | Intercept | γ |  | Intercept | γ |
| Coefficient estimate | 0.018 | -0.162 |  | 0.008 | -0.130 |
| Standard error | 0.065 | 0.043 |  | 0.050 | 0.034 |
| t-statistic | 0.07 | -3.72 |  | 0.16 | -3.87 |
| P value | 0.789 | 0.001 |  | 0.878 | 0.001 |
| R2 | 0.421 |  | 0.441 |

**Table A2: Estimation of progressivity and latecomer catch-up factors**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Dependent variable:(*lnTarget 2020 – lnBAU 2020* ) | Coef. | Std. Err. | t | P>t | [95% Conf. | Interval] |
|  |  |  |  |  |  |  |
| *ln income per capita* | -0.156 | 0.031 | -5.07 | 0 | -0.22 | -0.09 |
| *ln emissions2007* ***-****lnBAU2020* | 0.376 | 0.100 | 3.76 | 0.002 | 0.16 | 0.59 |
| *ln emissions2007* - *ln emissions1990*  | -0.328 | 0.091 | -3.58 | 0.002 | -0.52 | -0.13 |
| Constant term | 1.384 | 0.300 | 4.62 | 0 | 0.75 | 2.02 |

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|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Source | SS |  df |  | Number of observations |  21 |
|  |  |  |  | F ( 3, 17) |  13.02 |
| Model | 1.092 | 3 | Prob > F | 0.0001 |
| Residual | 0.475 | 17 | R2 | 0.697 |
|  |  |  | Adj R2 | 0.643 |
| Total | 1.567 | 20 | Root MSE | 0.167 |