

[Home](#) > [Journal](#) > [Earth & Environmental Sciences](#) > [JEP](#)[Indexing](#) [View Papers](#) [Aims & Scope](#) [Editorial Board](#) [Guideline](#) [Article Processing Charges](#)[JEP](#) > Vol. 3 No. 10, October 2012

OPEN ACCESS

A Revised Fair Plan to Safeguard Earth' s Climate

PDF (Size: 1066KB) PP. 1330-1335 DOI: 10.4236/jep.2012.310151

Author(s)

Michael E. Schlesinger, Michael J. Ring, Emily F. Cross

ABSTRACT

In our original study we crafted trajectories for developed and developing countries that phased-out greenhouse gas emissions during 2015-2065 such that the maximum global warming does not exceed the 2°C threshold adopted by the UN Framework Convention on Climate Change, and the cumulative emissions for developed and developing countries are identical. Here we examine the effects of increasing the start year from 2015 to 2030 in 5-year intervals, and the phase-out period from 50 to 100 years in 10-year intervals. We find that phase-out during 2020-2100 is optimal. This phase-out increases the year of peak emission from 2015 to 2030 for developed countries and from 2042 to 2053 for developing countries. It also increases the time from peak emissions to zero emissions from 50 to 70 years for developed countries and from 23 to 47 years for developing countries. Both outcomes should facilitate agreement of the Revised Fair Plan by the UNFCCC.

KEYWORDS

Climate Change; Global Warming; Greenhouse-Gas Emissions; Mitigation

Cite this paper

M. Schlesinger, M. Ring and E. Cross, "A Revised Fair Plan to Safeguard Earth' s Climate," *Journal of Environmental Protection*, Vol. 3 No. 10, 2012, pp. 1330-1335. doi: 10.4236/jep.2012.310151.

References

- [1] United Nations, "United Nations Framework Convention on Climate Change," 1992. <http://unfccc.int/resource/docs/convkp/conveng.pdf>
- [2] Council of the European Union, "Presidency Conclusions," 2005. <http://register.consilium.europa.eu/pdf/en/05/st07/st07619-re01.en05.pdf>
- [3] United Nations, "Report of the Conference of the Parties on Its Sixteenth Session. Addendum Part Two: Action taken by the Conference of the Parties at its sixteenth session," 2010. http://unfccc.int/meetings/cancun_nov_2010/meeting/6266/php/view/reports.php
- [4] M. E. Schlesinger, M. J. Ring and E. F. Cross, "A Fair Plan for Safeguarding Earth' s Climate," *Journal of Environmental Protection*, Vol. 3, No. 6, 2012, pp. 455-461. doi:10.4236/jep.2012.36055.

- [Open Special Issues](#)
- [Published Special Issues](#)
- [Special Issues Guideline](#)

[JEP Subscription](#)[Most popular papers in JEP](#)[About JEP News](#)[Frequently Asked Questions](#)[Recommend to Peers](#)[Recommend to Library](#)[Contact Us](#)

Downloads: 301,123

Visits: 672,345

[Sponsors, Associates, and Links >>](#)

- [The International Conference on Pollution and Treatment Technology \(PTT 2013\)](#)