

## **Key Aviation and Global Warming Resources (cited in petition)**

### **Science on Global Warming & Its Impacts**

**EPSTEIN & MILLS REPORT:** Paul R. Epstein and Evan Mills, CLIMATE CHANGE FUTURES: HEALTH, ECOLOGICAL AND ECONOMIC DIMENSIONS (Nov. 2005), *available at:* <http://www.climatechangeutures.org/report/index.html>.

**GAO REPORT:** GOVERNMENT ACCOUNTABILITY OFFICE, CLIMATE CHANGE: AGENCIES SHOULD DEVELOP GUIDANCE FOR ADDRESSING THE EFFECTS ON FEDERAL LAND AND WATER RESOURCES (August 2007), *available at:* <http://www.gao.gov/new.items/d07863.pdf>.

### **IPCC REPORTS:**

**Working Group I Report:** IPCC, SUMMARY FOR POLICYMAKERS: CLIMATE CHANGE 2007: THE PHYSICAL SCIENCE BASIS; CONTRIBUTION OF WORKING GROUP I TO THE FOURTH ASSESSMENT REPORT OF THE INTERGOVERNMENTAL PANEL ON CLIMATE CHANGE (Feb. 2007).

**Working Group II Report:** IPCC, SUMMARY FOR POLICYMAKERS: CLIMATE CHANGE 2007: IMPACTS, ADAPTATION AND VULNERABILITY, WORKING GROUP II CONTRIBUTION TO THE INTERGOVERNMENTAL PANEL ON CLIMATE CHANGE FOURTH ASSESSMENT REPORT (April, 2007);

**Working Group III Report:** IPCC, CLIMATE CHANGE 2007: MITIGATION OF CLIMATE CHANGE; CONTRIBUTION OF WORKING GROUP III TO THE FOURTH ASSESSMENT REPORT OF THE INTERGOVERNMENTAL PANEL ON CLIMATE CHANGE (May 2007).

**STERN REPORT:** Sir Nicholas Stern, STERN REVIEW ON THE ECONOMICS OF CLIMATE CHANGE, Cambridge University Press (Oct. 30, 2006) *available at:* [www.sternreview.org.uk](http://www.sternreview.org.uk).

### **Aviation & Its Environmental Impacts**

**AVIATION AND THE ENVIRONMENT:** Ian A. Waitz, *et al.*, AVIATION AND THE ENVIRONMENT: A NATIONAL VISION STATEMENT, FRAMEWORK FOR GOALS AND RECOMMENDED ACTIONS, Report to the United States Congress (Dec. 2004) *available at:* [http://web.mit.edu/aeroastro/partner/reports/congrept\\_aviation\\_envirn.pdf](http://web.mit.edu/aeroastro/partner/reports/congrept_aviation_envirn.pdf)

**CLIMATE ACTION NETWORK EUROPE AND EUROPEAN FEDERATION FOR TRANSPORT AND ENVIRONMENT:** "Clearing the Air: The Myth and Reality of Aviation and Climate Change" [http://www.transportenvironment.org/docs/Publications/2006/2006-06\\_aviation\\_clearing\\_the\\_air\\_myths\\_reality.pdf](http://www.transportenvironment.org/docs/Publications/2006/2006-06_aviation_clearing_the_air_myths_reality.pdf)

**CLIMATE SCIENCE WATCH PAPER:** Thea Sebastian & Rick Pitz, *NextGen Air Transportation System Progress Reports Ignore Climate Change*, CLIMATE SCIENCE WATCH (July 2007), *available at:* [http://www.climatesciencewatch.org/file-uploads/NextGen\\_final\\_18jul07.pdf](http://www.climatesciencewatch.org/file-uploads/NextGen_final_18jul07.pdf).

**NEXT GENERATION REPORT:** NEXT GENERATION AIR TRANSPORTATION SYSTEM/JOINT PLANNING AND DEVELOPMENT OFFICE (NGATS/JPDO) ENVIRONMENTAL INTEGRATED PRODUCT

TEAM (EIPT) AND THE PARTNERSHIP FOR AIR TRANSPORTATION NOISE AND EMISSIONS REDUCTION (PARTNER), REPORT OF FINDINGS AND RECOMMENDATIONS, EXECUTIVE SUMMARY, WORKSHOP ON THE IMPACTS OF AVIATION ON CLIMATE CHANGE (Aug. 31, 2006) available at: <http://web.mit.edu/aeroastro/partner/reports/climatewrksp-rpt-0806.pdf>.

**RCEP REPORT:** ROYAL COMMISSION ON ENVIRONMENTAL POLLUTION (RCEP), THE ENVIRONMENTAL EFFECTS OF CIVIL AIRCRAFT IN FLIGHT, London, UK (Nov. 29, 2002) available at: <http://www.rcep.org.uk/avreport.htm>.

**TYNDALL REPORT:** Bows, Alice, Kevin Anderson and Paul Upham, *Technical Report: Contraction and Convergence: UK carbon emissions and the implications for UK air traffic*, TYNDALL CENTRE FOR CLIMATE CHANGE RESEARCH (Feb. 2006) available at [http://www.tyndall.ac.uk/research/theme2/final\\_report/t3\\_23.pdf](http://www.tyndall.ac.uk/research/theme2/final_report/t3_23.pdf).

## Technology & Opportunities for Reducing Aviation Emissions

**ANTOINE & KROO:** Nicolas Antoine and Ilan Kroo, *Framework for Aircraft Conceptual Design and Environment Performance Studies*, AIAA JOURNAL, Vol. 43, No. 10, (Oct. 2005).

Summary: Provides a good peer-reviewed summary of ways to improve technology to reduce emission from aviation.

**CCAP REPORT:** CONTROLLING AIRPORT RELATED POLLUTION, CCAP & NESCAUM (June 2003) available at:

[http://bronze.nescaum.org/workgroup/aircraftport/Aviation\\_Final\\_Report.pdf](http://bronze.nescaum.org/workgroup/aircraftport/Aviation_Final_Report.pdf).

Summary: Discusses opportunities for reducing emissions from airports and airplanes. While it doesn't focus specifically on GHGs (or mention them at all) many of the suggestions included will increase efficiency of airplanes, and decrease overall emissions of all types of gases (including GHGs). Also discusses policy options for states and other entities pushing for emissions controls.

**GREENER BY DESIGN REPORT:** ROYAL AERONAUTICAL SOCIETY, AIR TRAVEL – GREENER BY DESIGN, Report of the Greener Design Science and Technology Sub-Group (July 2005)

available at: <http://www.greenerbydesign.org.uk/FILES/publications/GbD%20-%202005%20Science%20and%20Technology%20Report.pdf>.

Summary: Overview by a British think tank of possible technologies for reducing GHG emission from planes.

**ESCAPE REPORT:** Dings, Joss, Paul Peeters, Joost van der Heijden and Roland Wijnen. ESCAPE: ECONOMIC SCREENING OF AIRCRAFT PREVENTING EMISSIONS, ANNEX I: DESIGNING AIRCRAFT FOR LOW EMISSIONS; TECHNICAL BASIS FOR THE ESCAPE PROJECT (Aug. 2000), available at [http://www.ce.nl/pdf/00\\_4404\\_16e\\_main.pdf](http://www.ce.nl/pdf/00_4404_16e_main.pdf).