TRB Snap Search: Air Quality & Climate Change

TRB’s involvement in research on Air Quality & Climate Change from 2018-2020

The Transportation Research Board (TRB) provides innovative, research-based solutions to improve how we move. TRB is part of the National Academies of Sciences, Engineering, and Medicine, an independent, non-profit institution that provides objective advice on scientific, engineering, and medical issues.

A resource to the nation and to the transportation community worldwide, TRB provides an extensive portfolio of services:

- Opportunities for information exchange on current transportation research and practice
- Management of cooperative research and other research programs
- Analyses of national transportation policy issues and guidance on federal and other research programs
- Publications and access to research information from around the world

All available Snap Searches can be accessed online here: [http://www.trb.org/InformationServices/Snap.aspx](http://www.trb.org/InformationServices/Snap.aspx)

**TRB Research**

**TRID** - The world's largest and most comprehensive bibliographic source on all modes and disciplines of transportation

- Click here to view search results on TRB published research on Air Quality & Climate Change within the two past years.

**Specialty Webpage**

- Climate Change

**Recent Reports & Publications**

- **Airport Cooperative Research Program (ACRP)**
  - ACRP 02-80 - Quantifying Emissions Reductions at Airports from the Use of Alternative Jet Fuels
  - Report 207 - Optimizing the Use of Electric Preconditioned Air (PCA) and Ground Power Systems for Airports
  - Synthesis 100 - Airport Greenhouse Gas Reduction Efforts
  - WebResource 4 - Airport Air Quality Resource Library

- **National Cooperative Highway Research Program (NCHRP)**
  - NCHRP 25-25 / Task 108 - Creating Lookup Tables to Streamline the Determination of Emission Reductions for CMAQ Projects
  - Report 924 - Forseeing the Impact of Transformational Technologies on Land Use and Transportation
  - Report 909 - Guide to Truck Activity Data for Emissions Modeling
  - Web-Only Document 246 - Volume 2: TRAQS: A Combined Interface for Project-Level Air Quality Analysis

- **Transportation Research Circulars**
  - E-Circular 238 - 2018 National Household Travel Survey Workshop

**Current & Upcoming Projects**

- **Current Projects**
  - NCHRP 20-59 (55) - Transportation System Resilience: CEO Primer & Engagement
  - NCHRP 25-25 / Task 104 - Streamlining Carbon Monoxide Project-Level Air Quality Analyses with Programmatic Agreements
  - NCHRP 25-25 / Task 115 - Estimates of Emissions Reductions from Future Fleet Changes for Use in Air Quality Models
  - NCHRP 25-55 - Assessment of Regulatory Air Pollution Dispersion Models to Quantify the Impacts of Transportation Sector Emissions
- **NCHRP 25-56** - Methods for State DOTs to Reduce Greenhouse Gas Emissions from the Transportation Sector
- **NCHRP Synthesis 20-05/Topic 51-18** - Practices for Project-Level Analyses for Air Quality
- **TCRP J-11/Task 36** - An Update on Public Transportation's Impacts on Greenhouse Gas Emissions

**Upcoming Projects**
- **NCHRP 20-44(23)** - Pilot Test of Climate Change Design Practices Guide for Hydrology and Hydraulics

**Reports from the National Academies Press on Air Quality & Climate Change**
- Review of the Bureau of Ocean Energy Management "Air Quality Modeling in the Gulf of Mexico Region" Study
- Enhancing Urban Sustainability with Data, Modeling, and Simulation
- Gaseous Carbon Waste Streams Utilization
- Negative Emissions Technologies and Reliable Sequestration
- Making Climate Assessments Work - Learning from California and Other Subnational Climate Assessments: Proceedings of a Workshop

**Committees & Panels**

**Sign-up to be a committee "Friend"**

**TRB Standing Committees** – Search by transportation mode and committee topic
- AD000 - Planning and Environment Group
- ADC20 - Transportation and Air Quality
- ADC80 - Alternative Transportation Fuels and Technologies
- AV030 - Environmental Impacts of Aviation

**Task Forces** - Search for task force under committee here
- A0020T - Climate Change and Energy

**Councils**
- A0040T – Young Member Council

**Recent and Upcoming Events**

**Upcoming Conferences** - Left hand menu “upcoming conferences by topic”
(Conferences cosponsored by TRB are denoted with an asterisk.)

- **13th National Conference on Transportation Asset Management**
  **July 11, 2020**
  **Boston, Massachusetts**

- **Transportation, Environment, and Energy: An Integrated Research Symposium**
  **July 12-15, 2020**
  **Denver, Colorado**

- **Second International Conference on 3D Printing and Transportation**
  **November 18, 2020**

**Webinars** – View upcoming webinars, suggest a webinar or add registration information

**Past Webinars**
- Unclutter Your Processes – Simplifying Climate Risk Management at Airports – October 8, 2019
- The Near-Road Pooled Fund Study – September 30, 2019
- Capture the Data – Quantifying Airport Ground Access Vehicle Activity – September 26, 2019
- Programs to Support the Deployment of the Electric Vehicle Infrastructure – April 3, 2019
- Understanding Airport Air Quality Management and Public Health – December 12, 2018
- Federal Environmental Case Law Update on Transportation Matters – October 10, 2018
- How to Process AIS Data to Maximize Utility and Overcome Data Challenges – September 18, 2018
- Technology Changes Influencing the Decline of Vehicle Emissions – April 25, 2018

**TRB’s Transportation Research Information Services (TRIS)**

TRIS includes the [TRB Library](#) and the [TRIS Databases](#) (listed below) which are available for free on TRB’s website.
The TRB Library provides information services to TRB staff, sponsors, TRB Committee members and panels and researchers. Access to the TRB Library is a benefit to TRB sponsors and TRB committee members. In cooperation with your State DOT Library or Information Service, the TRB Library provides:

- Reference and research assistance
- Literature searches
- Articles for TRB Committee work

The TRB Library provides training on effective and efficient use of the following TRIS resources:

**TRID** – The world’s largest and most comprehensive bibliographic source on all modes and disciplines of transportation - [trid.trb.org](http://trid.trb.org)

**Publications Index (PubsIndex) Database** – The papers, articles and reports published by the Transportation Research Board, Highway Research Board, Strategic Highway Research Programs or the Marine Board - [pubsindex.trb.org](http://pubsindex.trb.org)

**Research in Progress (RiP) Database** – Current or recently completed transportation research projects - [rip.trb.org](http://rip.trb.org)

**Research Needs Statements (RNS)** – Research needs as identified by TRB Technical Activities standing committees - [rns.trb.org](http://rns.trb.org)

Contact the Library at [TRBLibrary@nas.edu](mailto:TRBLibrary@nas.edu) or 1 (202) 334-2989