



Annual Conference 2026

Selected HEI Publications Related to Conference Topics

SUNDAY

Stories of Policy Success: Real Examples of Inspiring Science-based Air Quality Actions

Adar S, Pedde M, Hirth R, Szpiro A. 2024. [Air Quality Benefits of the United States Environmental Protection Agency's School Bus Rebate Program: A Randomized Controlled Trial Design](#). Research Report 221. Boston, MA: Health Effects Institute.

Baumgartner J., Harper S, Barrington-Leigh C, Brehmer C, Carter E, Li X. et al. 2025. [How Do Household Energy Interventions Work?](#) Research Report 235. Boston, MA: Health Effects Institute.

Hakami A, Zhao S, Soltanzadeh M, Vasilakos P, Alhusban A, Oztaner B, et al. 2024. [Estimating Model-Based Marginal Societal Health Benefits of Air Pollution Emission Reductions in the United States and Canada](#). Research Report 218. Boston, MA: Health Effects Institute.

Health Effects Institute. 2025. [From Actions to Results: HEI's Accountability Studies](#). Blog. Boston, MA: Health Effects Institute.

Hystad P, Willis M, Hill E, Schrank D, Molitor J, Larkin A. et al. 2025. [Impacts of Vehicle Emission Regulations and Local Congestion Policies on Birth Outcomes Associated with Traffic Air Pollution](#). Research Report 223. Boston, MA: Health Effects Institute.

Meng Y-Y, Su J G, Chen X, Molitor J, Yue D, Jerrett M. 2021. [Improvements in Air Quality and Health Outcomes Among California Medicaid Enrollees Due to Goods Movement Actions](#). Research Report 205. Boston, MA: Health Effects Institute.

MONDAY

Global Progress Towards Air Quality Action and its Impacts

Health Effects Institute. 2025. [State of Global Air 2025](#). Special Report. Boston, MA: Health Effects Institute.

Nthusi V, Sekar A, and Pant P. 2025. [From Global to Local: Perspectives on Strengthening Air Quality and Health Capacity in Low- and Middle-Income Countries](#). EM: The Magazine for Environmental Managers.

Heger, Martin Philipp; Cros, Marion; Pople, Ashley, editors. 2025. [A Breath of Change: Solutions for Cleaner Air in the Indo-Gangetic Plains and Himalayan Foothills](#). © World Bank. <http://hdl.handle.net/10986/44067> License: [CC BY-NC 3.0 IGO](#).

Health Effects Institute. 2025. [Assessment of Changes in Air Quality in Indian Cities Since the Launch of the National Clean Air Programme](#). Boston, MA: Health Effects Institute.

Baumgartner J, Harper S, Barrington-Leigh C, Brehmer C, Carter, E. M, Li X et al. 2025. [How do](#)

[household energy interventions work?](#) Research Report 235. Boston, MA: Health Effects Institute.

Smog to Synapse: Unraveling the Web of Neurodegenerative Risk and Resilience

Sheppard L, Blanco MN, Doubleday A, Szpiro AA, Bi J, Zuidema C, et al. 2025. [Optimizing Air Pollution Exposure Assessment with Application to Cognitive Function](#). Research Report 228. Boston, MA: Health Effects Institute.

Herting MM, Burnor E, Ahmadi H, Eckel SP, Gauderman W, Schwartz J, et al. 2025. [Air Pollution Exposure, Prefrontal Connectivity, and Emotional Behavior in Early Adolescence](#). Research Report 225. Boston, MA: Health Effects Institute.

Guxens M, Lubczyńska MJ, Pérez-Crespo L, Muetzel RL, El Marroun H, Basagaña X, et al. 2022. [Associations of Air Pollution on the Brain in Children: A Brain Imaging Study](#). Research Report 209. Boston, MA: Health Effects Institute.

HEI Panel on the Health Effects of Long-Term Exposure to Traffic-Related Air Pollution. 2022. [Systematic Review and Meta-analysis of Selected Health Effects of Long-Term Exposure to Traffic-Related Air Pollution](#). Special Report 23. Boston, MA: Health Effects Institute.

Chen J-C, Wang X, Serre M, Cen S, Franklin M, Espeland M. 2017. [Particulate Air Pollutants, Brain Structure, and Neurocognitive Disorders in Older Women](#). Research Report 193. Boston, MA: Health Effects Institute.

Particles in Motion: Tackling Brake, Tire, and Road Dust Emissions

Franklin M, Fruin S, McConnell R, Yin X, Fallah-Shorshani M. 2026. [Intersections as Hot Spots: Assessing the contribution of Localized Nontailpipe Emissions and Noise on the Association Between Traffic and Children's Lung Function](#). Research Report 241. Boston, MA: Health Effects Institute.

HEI Panel on the Health Effects of Long-Term Exposure to Traffic-Related Air Pollution. 2022. [Systematic Review and Meta-analysis of Selected Health Effects of Long-Term Exposure to Traffic-Related Air Pollution](#). Special Report 23. Boston, MA: Health Effects Institute.

HEI. 2021. [RFA 21-1 Quantifying Real-World Impacts of Non-Tailpipe Particulate Matter Emissions](#). Health Effects Institute.

Wang XL, Khlystov A, Ho KF, Campbell D, Chow JC, Kohl SD, et al. 2019. [Real-World Vehicle Emissions Characterization for the Shing Mun Tunnel in Hong Kong and Fort McHenry Tunnel in the United States](#). Research Report 199. Boston, MA: Health Effects Institute.

Koutrakis P, Greenbaum D. 2021. Enhancing near-road exposure assessment. *Journal of the Air & Waste Management Association* 71:115–117; doi:10.1080/10962247.2020.1861893.

Everything You Wanted to Know About Bias in Environmental Health Research (But Were Afraid to Quantify)

Katsouyanni K, Evangelopoulos D, Wood D, Barratt B, Zhang H, Walton H, et al. 2025. [Investigating the Consequences of Measurement Error of Gradually More Sophisticated Long-Term Personal Exposure Models in Assessing Health Effects: The London Study \(MELONS\)](#). Research Report 227. Boston, MA: Health Effects Institute.

Boogaard H, Atkinson RW, et al. 2023. Evidence synthesis of observational studies in environmental health: Lessons learned from a systematic review on traffic-related air pollution. *Environ Health Perspect* 131:115002. <https://doi.org/10.1289/EHP11532>.

Dominici F, Zanobetti A, Schwartz J, Braun D, Sabath B, Wu X. 2022. [Assessing Adverse Health Effects of Long-Term Exposure to Low Levels of Ambient Air Pollution: Implementation of Causal Inference Methods](#). Research Report 211. Boston, MA: Health Effects Institute.

HEI Panel on the Health Effects of Long-Term Exposure to Traffic-Related Air Pollution. 2022. [Systematic Review and Meta-analysis of Selected Health Effects of Long-Term Exposure to Traffic-Related Air Pollution](#). Special Report 23. Boston, MA: Health Effects Institute.

TUESDAY

From Space to Place: Advancing Environmental Health with Remote Earth Observations

HEI. 2025. [RFA 25-1 Advancing Satellite-Derived Air Quality Data and Approaches for Use in Health Studies](#).

HEI. 2025. [Health Effects of Air Pollution in East Africa: Current Evidence and Priorities for Future Action](#). Boston, MA: Health Effects Institute.

Hoek G, Bouma F, Janssen N, Wesseling J, van Ratingen S, Kerckhoffs J, et al. 2025. [Comparison of Long-term Air Pollution Exposure assessment based on mobile monitoring, low-cost sensors, dispersion modelling and routine monitoring-based models \(CLAIRE\)](#). Research Report 226. Boston, MA: Health Effects Institute.

Franklin M, Schade G, Helmig D, Cushing L, Johnston J. 2025. [Assessing Source Contributions to Air Quality and Noise in Unconventional Oil Shale Plays](#). Research Report 231. Boston, MA: Health Effects Institute.

Weichenthal S, Lloyd M, Ganji A, Simon L, Xu J, Venuta A, et al. 2024. [Long-Term Exposure to Outdoor Ultrafine Particles and Black Carbon and Effects on Mortality in Montreal and Toronto, Canada](#). Research Report 217. Boston, MA: Health Effects Institute.

Paciorek CJ, Liu Y. 2012. [Assessment and Statistical Modeling of the Relationship Between Remotely Sensed Aerosol Optical Depth and PM_{2.5} in the Eastern United States](#). Research Report 167. Boston, MA: Health Effects Institute.

Driving Change: Intermodal Freight's Air Quality and Health Challenges and Opportunities

Hystad P, Willis M, Hill E, Schrank D, Molitor J, Larkin A, et al. 2025. [Impacts of Vehicle Emission Regulations and Local Congestion Policies on Birth Outcomes Associated with Traffic Air Pollution](#). Research Report 223. Boston, MA: Health Effects Institute.

Hakami A, Zhao S, Soltanzadeh M, Vasilakos P, Alhusban A, Oztaner B, et al. 2024. [Estimating Model-Based Marginal Societal Health Benefits of Air Pollution Emission Reductions in the United States and Canada](#). Research Report 218. Boston, MA: Health Effects Institute.

HEI Panel on the Health Effects of Long-Term Exposure to Traffic-Related Air Pollution. 2022. [Systematic Review and Meta-analysis of Selected Health Effects of Long-Term Exposure to Traffic-Related Air Pollution](#). Special Report 23. Boston, MA: Health Effects Institute.

Meng YY, Su JG, Chen X, Molitor J, Yue D, Jerrett M. 2021. [Improvements in Air Quality and Health Outcomes Among California Medicaid Enrollees Due to Goods Movement Actions](#). Research Report 205. Boston, MA: Health Effects Institute.

Health Effects Institute. 2015. [Executive Summary. The Advanced Collaborative Emissions Study \(ACES\)](#). Boston, MA: Health Effects Institute.



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New HEI Publications

INSTITUTIONAL PUBLICATIONS

Health Effects Institute. 2026. [Expanding Our Vision for a Healthier Environment](#). 2025 Annual Report. Boston, MA: Health Effects Institute.

Health Effects Institute. 2025. [The 2025-2030 Strategic Plan](#). Boston, MA: Health Effects Institute.

ENVIRONMENT & HEALTH

Accountability

Kinney P, Yan B, Shi X, Zhou M, Wang S, Zheng H, et al. 2026. [Accounting for the Health Benefits of Air Pollution Regulations in China, 2008–2019](#). Research Report 239. Boston, MA: Health Effects Institute.

Baumgartner J, Harper S, Barrington-Leigh C, Brehmer C, Carter EM, Li X, et al. 2025. [How Do Household Energy Transitions Work?](#) Research Report 235. Boston, MA: Health Effects Institute.

Health Effects of Air Pollution

Franklin M, Fruin S, McConnell R, Yin X, Fallah-Shorshani M. 2026. [Intersections as Hot Spots: Assessing the contribution of Localized Nontailpipe Emissions and Noise on the Association Between Traffic and Children’s Lung Function](#). Research Report 241. Boston, MA: Health Effects Institute.

Dadvand P, Sunyer J, Rivas I, Gómez-Roig MD, Llurba E, Foraster M, et al. 2026. [Traffic-Related Air Pollution and Birth Weight: The Roles of Noise, Placental Function, Green Space, Physical Activity, and Socioeconomic Status \(FRONTIER\)](#). Research Report 236. Boston, MA: Health Effects Institute.

Improving Exposure Assessment

de Hoogh K, Flückiger B, Probst-Hensch N, Vienneau D, Jeong A, Imboden M, et al. 2025. [Accounting for Mobility in Air Pollution Exposure Estimates in Studies on Long-Term Health Effects](#). Research Report 229. Boston, MA: Health Effects Institute.

Sheppard L, Blanco MN, Doubleday A, Szpiro AA, Bi J, Zuidema C, et al. 2025. [Optimizing Air Pollution Exposure Assessment with Application to Cognitive Function](#). Research Report 228. Boston, MA: Health Effects Institute.

COVID-19, Air Quality, and Health

Kleeman M, Nau C, Su J, Young DR, Butler R, Yang L-S, et al. [Ambient Air Pollution and COVID-19 in California](#). Research Report 238. Boston, MA: Health Effects Institute.

Stingone JA, Lovinsky-Desir S, Kanno S, Shafiq M, Zhang C, Albrecht S, et al. 2025. [REACH-OUT: Race, Ethnicity, and Air Pollution in COVID-19 Hospitalization OUTcomes](#). Research Report 230. Boston, MA: Health Effects Institute.

Rosenblith Award Studies

Alderete TL, Holzhausen EA, Liang D, Jones RB, Lurmann F, Goran MI, et al. 2026. [Early-Life Air Pollution Exposure Is Associated with the Infant Gut Microbiome and Fecal Metabolome in the First Two Years of Life](#). Research Report 237. Boston, MA: Health Effects Institute.

Antonelli J, Shin H, Kang S, Franks A, Audirac M, Braun D. 2025. [Robust Statistical Approaches to Understanding the Causal Effect of Air Pollution Mixtures](#). Research Report 234. Boston, MA: Health Effects Institute.

ENERGY

Hildebrandt Ruiz L, Allen D, Misztal P, Matsui E, Peng R, Kimura Y, et al. 2026. [Predictive, Source-Oriented Modeling and Measurements to Evaluate Community Exposures to Air Pollutants and Noise from Unconventional Oil and Gas Development](#). Research Report 240. Boston, MA: Health Effects Institute.

HEI Special Panel on Cumulative Impact Assessment. 2025. [Roadmap to Health: Assessing Adverse and Beneficial Environmental, Social, and Economic Cumulative Exposures](#). Special Report 2. Boston, MA: Health Effects Institute.

Baka J, Brantley SL, Wen T, Xue L, Shaheen S, Harrington O. 2025. [Hydrocarbon Extraction and Risk to Groundwater in Pennsylvania: Part 1. Using Geoscientific Analysis and Community Engagement to Analyze Exposures to Potential Groundwater Contamination Related to Hydrocarbon Extraction in Southwestern Pennsylvania](#). Research Report 233. Boston, MA: Health Effects Institute.

Collett JL Jr., Pan D, McKenzie L, Zimmerle D, Zhang W, Zhou Y, et al. 2025. [Measuring and Modeling Air Pollution and Noise Exposure Near Unconventional Oil and Gas Development in Colorado](#). Research Report 232. Boston, MA: Health Effects Institute.

Franklin M, Schade G, Helmig D, Cushing L, Johnston J. 2025. [Assessing Source Contributions to Air Quality and Noise in Unconventional Oil Shale Plays](#). Research Report 231. Boston, MA: Health Effects Institute.

GLOBAL INITIATIVES

Health Effects Institute. 2025. [Assessment of Changes in Air Quality in Indian Cities Since the Launch of the National Clean Air Programme](#). Boston, MA: Health Effects Institute.

Health Effects Institute. 2025. [State of Global Air 2025: A Report on Air Pollution and Its Role in the World's Leading Causes of Death](#). Boston, MA: Health Effects Institute.