

## **Dr. Hem H. Dholakia**

Hem H. Dholakia is a Research Associate with the Council of Energy, Environment and Water. His research addresses the linkages between energy, environment, human health and public policy in India. Specifically, it understands health impacts of urban air pollution, heat and cold waves to develop mitigation strategies and adaptation measures. His previous work experience covers a mélange of clinical patient care; product development with healthcare startups and research.

He was the recipient of the Young Scientist Summer Award in 2012 at the International Institute of Applied Systems (IIASA), Austria. Hem has published six papers in International peer-reviewed journals; contributed to a book chapter as well as the LIMITS (2014) India report. In addition, he is the co-author of a book titled ‘Energy-Emissions Trends and Policy Landscape in India’.

Hem holds a PhD from the Indian Institute of Management (Ahmedabad); Master’s in Exercise Science from University of Brighton (UK) and Bachelor’s in Physiotherapy from Seth G.S. Medical College.

### **Journal Publications**

**Dholakia HH**, Mishra V & Garg A. (2014). Urban India to witness prominent increase in heat related mortality under changing climate. *Under Review in Scientific Reports*

**Dholakia HH**, Bhadra D & Garg A. (2014). Short term association between ambient air pollution and mortality and modification by temperature in five Indian cities. *Atmospheric Environment* 99, 168 – 174

**Dholakia HH**, Purohit P, Rao S & Garg A. (2013). Impact of current policies on future air quality and health outcomes in Delhi, India. *Atmospheric Environment*, 75, 241 – 48

[Co-author] Silberbauer et al. (2008). Defining exercise synchrony in fit young adults: a tissue Doppler study. *Journal of the American Society of Echocardiography*, 21(7), 808 – 12

[Co-author] Silberbauer et al. (2006). The usefulness of exercise stress tissue velocities in predicting cardiopulmonary performance in cardiac patients and healthy individuals. *Circulation*, 114 (18), 612.

[Co-author] Silberbauer et al. (2006). Relationship of cardiopulmonary exercise performance to myocardial tissue velocity in heart failure and atrial fibrillation. *European Heart Journal*, 27,100

### **Working Papers**

**Dholakia HH** & Garg A (2014). A Tale of Five Cities: Heat Waves, Cold Spells and Mortality Risk in Urban India. IIMA Working Paper WP-2014-10-02

### **Book Chapter**

Pathak M, Shukla PR, Garg A & **Dholakia HH**. 'Framework for Integrating Climate Change Concerns into Urban Planning' in Dev and Yedla (eds). 'Cities and Sustainability: Issues and Strategic Pathways' [*accepted for publication by Springer*]

### **Book**

Shukla PR, Garg A and **Dholakia HH** (2015). 'Energy-Emissions Trends and Policy Landscape for India' Allied Publishers, New Delhi [*Forthcoming*]

### **Reports**

[**Contributing Author**] Garg et al (2014). Low Climate Impact Scenarios And Implications of Required Tight Emission Controls (LIMITS) India Report. 'Alternate Development Pathways for India: Aligning Copenhagen Climate Change Commitments with National Energy Security and Economic Development'