

CURRICULUM VITAE

PRIYADARSHI R. SHUKLA

Birth: June 14, 1950 Citizenship: India

ACADEMIC QUALIFICATIONS

June 1979 Ph.D, Stanford University, U.S.A.

June 1976 M.S., Stanford University, U.S.A

WORK EXPERIENCE

Oct. 79 – Aug 17 Professor, with P&QM area (till 1993) and PSG (1993-June 2015)
Adjunct Professor PSG (July 2015- Aug 2017), IIMA

June - Sept 79 Research Fellow, Stanford University, California, U.S.A.

June 73 - Sept 75 Faculty, National Institute of Design, Ahmedabad, India

CONTRIBUTIONS TO CLIMATE CHANGE POLICY RESEARCH (Partial List)

Lead Author, *Chapter 6 – Assessing Transformation Pathways*, IPCC Fifth Assessment Report (AR5), Working Group III (WGIII).

Coordinating Lead Author, IPCC Fourth Assessment Report (AR4 - Working Group III) on Climate Change, Chapter 2 – *Framing Issues*.

Convening Lead Author, IPCC Third Assessment Report (TAR - Working Group III) on Climate Change, Chapter 8 - *Global and Regional Costs and Ancillary Benefits*, Working Group III.

Lead Author, IPCC Special Report on *Emissions Scenarios* (SRES)

Lead Author, IPCC Special Report on Methodological and Technological Issues in Technology Transfer, Chapter 11 (Energy Supply).

Coordinator, International Workshop on Integrated Assessment Models for Climate Change Policy for Asia, Sponsored by Asia Pacific Network for Global Change Research, 1998

Coordinator, Training Workshop for Integrated Assessment Models for Climate Change Policy Analysis, Sponsored by Asia Pacific Network for Global Change Research, 1998

Lead Author, IPCC Technical Paper IV: *Implications of Proposed CO₂ Emissions Limitations* (1997)

Lead Author, IPCC Technical Paper I: *Technology, Policies and Measures* (1996)

Lead Author, UNEP/IPCC discussion paper: *Mitigation and Adaptation Cost Assessment: Concepts, Methods and Appropriate Use* (1997-98)

Contributing Author, *Human Choice and Climate Change*, Pacific Northwest National Laboratory, U.S.A.

Lead Author, *Climate Change 1995 - Economic and Social Dimensions of Climate Change, Second Assessment Report of the IPCC (Chapters 8, 9 and 10)*, Working Group III

RESEARCH AND CONSULTATION

Coordinated and delivered numerous research and consulting assignments for national and international organizations on global technology policy, energy demand forecasting, energy and environment modeling and policy analysis, environment management, environment impact assessment, sustainable development, climate change policy, operations management, project management, logistics, and manufacturing strategy. Clients include various Ministries and Government of India, National and State Government Agencies in India, Indian and International Corporations, NGOs, bilateral and multilateral agencies and consulting firms.

PUBLICATIONS

Selected Publications (Since 2013)

Subash Dhar, Minal Pathak, Priyadarshi R. Shukla (2016), Electric vehicles and India's low carbon passenger transport: a long-term co-benefits assessment, *Journal of Cleaner Production*, <http://dx.doi.org/10.1016/j.jclepro.2016.05.111>

Hourcade J-C and Shukla P. R (2015), Cancun Paradigm Shift and COP21: to go beyond rhetoric, *International Environmental Agreements: Politics, Law and Economics*, Springer, October 2015.

Hourcade J-C and Shukla P. R (2015), Climate policy architecture for the Cancun paradigm shift: building on the lessons from history, *International Environmental Agreements: Politics, Law and Economics*, Springer, November 2015.

Pathak, M., Shukla, P.R. Co-benefits of low carbon passenger transport actions in Indian cities: Case study of Ahmedabad. *Transport Res. Part D* (2015), <http://dx.doi.org/10.1016/j.trd.2015.07.013>

Mittal S, Hanaoka T, Shukla P. R and Masui T (2015), Air pollution co-benefits of low carbon policies in road transport: a sub-national assessment for India, *Environ. Res. Lett.* 10 (2015), doi:10.1088/1748-9326/10/8/085006

Shukla P.R and Pathak Minal (2015), How can research serve international policymaking towards low-carbon development path? Looking forward, *Special Issue on: Transition and global challenges towards low carbon societies*, *Energie, Ambiente e Innovazione* (EAI) Bimonthly Journal of ENEA, DOI: 10.12910/EAI2015-023

Shukla, P.R. and Dhar, S. (2015), Energy policies for low carbon sustainable transport in Asia. *Energy Policy*, <http://dx.doi.org/10.1016/j.enpol.2015.02.021>

Mittal S., Dai H and Shukla P.R. (2015), Low carbon urban transport scenarios for China and India: A comparative assessment. *Transport. Res. Part D*, <http://dx.doi.org/10.1016/j.trd.2015.04.002>

Dhar, S. and Shukla, P.R. (2014), Low carbon scenarios for transport in India: Co-benefits analysis. *Energy Policy*, <http://dx.doi.org/10.1016/j.enpol.2014.11.026i>

Garg, A., Naswa P and Shukla P.R. (2014), et al., Energy infrastructure in India: Profile and risks under climate change. *Energy Policy*, <http://dx.doi.org/10.1016/j.enpol.2014.12.007i>

Clarke L., K. Jiang, K. Akimoto, M. Babiker, G. Blanford, K. Fisher-Vanden, J.-C. Hourcade, V. Krey, E. Kriegler, A. Löschel, D. McCollum, S. Paltsev, S. Rose, P. R. Shukla, M. Tavoni, B. C. C. van der Zwaan, and D.P. van Vuuren, 2014: Assessing Transformation Pathways. In: *Climate Change 2014: Mitigation of Climate Change. Contribution of Working Group III to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change* [Edenhofer, O., R. Pichs-Madruga, Y. Sokona, E. Farahani, S. Kadner, K. Seyboth, A. Adler, I. Baum, S. Brunner, P. Eickemeier, B. Kriemann, J. Savolainen, S. Schlömer, C. von Stechow, T. Zwickel and J.C. Minx (eds.)]. Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA.

Van Sluisveld, M.A.E., D.E.H.J. Gernaat, S. Ashina, K.V. Calvin, A. Garg, M. Isaac, P.L. Lucas, I. Mouratiadou, S.A.C. Otto, S. Rao, P.R. Shukla, J. Van Vliet and D.P. Van Vuuren (2013). A multi-model analysis of post-2020 mitigation efforts of five major economies. *Climate Change Economics* 4 (4), doi:10.1142/S2010007813400125.

Johansson D. J. A, Lucas P.L, Weitzel M, Ahlgren E. O, Bazaz A.B, Chen W, den Elzen M, Ghosh J, Grahn M, Liang Q. M, Peterson S, Pradhan B.K, van Ruijven B.J, Shukla P.R, van Vuuren D. P, Wei Y-M (2014), Multi-model comparison of the economic and energy implications for China and India in an international climate regime, *Mitigation and Adaptation Strategy for Global Change*, Online Publication Reference: DOI 10.1007/s11027-014-9549-4

Johansson D. J. A., P. L. Lucas, M. Weitzel, E. O. Ahlgren, A. B. Bazaz, W. Chen, M. G. J. den Elzen, J. Ghosh, M. Grahn, Q. M. Liang, S. Peterson, B.K. Pradhan, B.J. van Ruijven, P.R. Shukla, D.P. van Vuuren and Y.-M. Wei (2014). Multi-model analyses of the economic and energy implications for China and India in a post-Kyoto climate regime. *Mitigation and Adaptation Strategies for Global Change*. doi: 10.1007 / s11027-014-9549-4.

Chaturvedi V and Shukla P.R (2013), Role of energy efficiency in climate change mitigation policy for India: Assessment of co-benefits and opportunities within an integrated assessment modeling framework, *Climatic Change* Apr2014, Vol. 123 Issue 3/4, 597-609

Sathaye J and Shukla P.R. (2013), Methods and Models for Costing Carbon Mitigation, *Annual Review of Environment and Resources*, 2013. 38: 137-168.

Lucas, P.L., Shukla, P.R., Chen, W., van Ruijven, B.J., Dhar, S., den Elzen, M.G.J., van Vuuren, D.P., 2013. Implications of the international reduction pledges on long-term energy system changes and costs in China and India. *Energy Policy* 63: 1032-1041.

Garg, A., Shukla, P.R., Maheshwari, J., and Upadhyaya, J. (2013). An assessment of household electricity load curves and corresponding CO2 marginal abatement cost curves for Gujarat state, India. *Energy Policy*, 66, Pages 568-584

Hourcade J.C and Shukla P.R. (2013), Triggering the low carbon transition: climate finance in the aftermath of the global financial crisis, *Climate Policy*, 13:sup01, 22-35

Van Sluisveld, M.A.E., D.E.H.J. Gernaat, S. Ashina, K.V. Calvin, A. Garg, M.Isaac, P.L. Lucas, I. Mouratiadou, S.A.C. Otto, S. Rao, P.R. Shukla, J. Van Vliet and D.P. Van Vuuren (2013). A multi-model analysis of post-2020 mitigation efforts of five major economies. *Climate Change Economics* 4 (4), 1340012. doi: 10.1142/S2010007813400125

Hourcade J.-C., and P. R. Shukla (2013). Triggering the low-carbon transition in the aftermath of the global financial crisis. *Climate Policy* 13, 22 – 35.
doi:10.1080/14693062.2012.751687, ISSN: 1469-3062.