



Prof. Shobhakar Dhakal is Dean of the *School of Environment, Resources and Development* and Professor to *Department of Energy, Environment and Climate Change* of *Asian Institute of Technology*.

His teaching, research and international activities comprise of energy and climate policies, low carbon and climate resilient cities, energy system analysis, accounting of energy and carbon emissions and scenarios of mitigation opportunities.

He is particulate passionate about the following inter-connected areas:

- ❖ Understanding options and opportunities for climate smart cities which are low-energy, low-carbon and climate resilient in the context of rapid economic transformation, urbanization, constraints of Paris Climate Agreement, Sustainable Development Goals and the new Urban Agenda.
- ❖ Providing better access to modern energy and efficiently in urban and rural areas of the developing countries in South and South-East Asia capitalizing on the potentials of the renewable energy technologies, declining cost of renewable and climate policy as a new vehicle.
- ❖ Addressing energy and climate mitigation solutions through innovative policies, governance and financial mechanisms at multiple scales, and
- ❖ Regional electricity market integration in South Asia and South-East Asia in the context of ASEAN, SAARC, BBIN, BIMSTEC and Belt-and Road Initiatives which are key to address improved energy access, climate mitigation, energy security and up-scaling renewable energy in the region.

Prof. Dhakal actively contributes to numerous international and scientific arena and provides scientific leadership in several areas. Few selected activities are below:

- Coordinating Lead Author (CLA) of the Nobel Prize winning Inter-governmental Panel on Climate Change (IPCC) for its Sixth

Assessment Report (Chapter 2: Emission Trends and Drivers) which is expected to be completed by the mid-2021.

- Member of Scientific Steering Committee of the [Global Carbon Project](#), a premier global scientific program under the umbrella of [Future Earth](#).
- Co-chair of the [Scientific Steering Committee](#) of Cities & Climate Change Science [Conference](#) (March 5-7, 2018, Edmonton, Alberta, Canada) which was jointly organized (in leadership of IPCC) by 10 global institutions to set the future direction of research on Cities and Climate Change through research-policy-practice partnerships of communities. From outcomes of the this 900 people conference and subsequent deliberations, have come up with a [global research and action agenda](#) in Sept 2018 which is endorsed by IPCC and other global institutions and is being implemented.
- Co-led a new and *first of its kind* energy assessment for Hindu Kush Himalaya “Meeting Future Energy Needs in the Hindu Kush Himalaya” under the HIMAP program initiated by International Center for Integrated Mountain Development (ICIMOD), the assessment report [available here](#), published by Springer in Feb 2018.
- Coordinating Lead Author (CLA) of IPCC for its [5th Mitigation Assessment Report](#) (released in April 2014) for the Chapter on Human Settlements, Infrastructure and Spatial Planning (2010-2015).
- Co-led a global synthesis activity contributed by over 500 scientists worldwide titled “[Assessment Report on Climate Change and Cities](#)” which was initiated by [Urban Climate Change Research Network](#) and published in 2018 by the Cambridge University of Press.
- Lead author of the [Global Energy Assessment](#)’s for the Chapter of “Urban Energy Systems” (2008-11)
- Principle scientific reviewer of UNEP’s Global Environmental Outlook ([GEO-5](#))
- Member of the “Consensus Panel on Low Carbon Cities” of the [Academy of Sciences of South Africa](#) (2008-2010)
- Member of the Cities Energy Modeling Group of the [International Energy Agency](#) for World Energy Outlook 2008 which, for the first time, estimated role of cities in global energy and CO2 emissions.
- International expert to the Taskforce on Urban Development and Energy Efficiency of the [China Council for International Cooperation on Environment and Development](#) (2008-9).

Together with [Skee Houghton](#), Dr. Dhakal was founder senior-editor of Carbon Management Journal published by Future Sciences in 2009 which is now taken over by Taylor and Francis group (achieved ISI Impact Factor of 2.08). He was Co-editor-in-chief of [Carbon Management Journal](#) till December 2016. He was also an associate editor of Elsevier's [Sustainable Cities and Society](#) journal for 2014-2016.

He is involved in the low carbon city research and carbon mitigation related scientific activities for over a decade. He was one of the two Executive Directors of the [Global Carbon Project](#) (A [Future Earth](#) Project) from 2006-2012 and played instrumental role in bridging science and policy communities in the area of carbon management and is currently serving in its Scientific Steering Committee. He was a Guest Scholar to the Transition to New Technologies Group of [International Institute for Applied Systems Analysis](#) (2010-2013), a visiting Associate Professor to [Nagoya University](#) (2009-2012), and still a visiting researcher (2012-2017) to [National Institute for Environmental Studies, Japan](#). He was also a Senior Policy Researcher and Project Manger of urban program at [Institute for Global Environment Strategies](#) Japan for 2000-2006.