

# Positive energy districts in Asia: decarbonization policies and case-studies

## Positive Energy Districts (IEA EBC Annex 83)

---

IEA EBC Annex 83 Experts meeting  
April 28-29, online

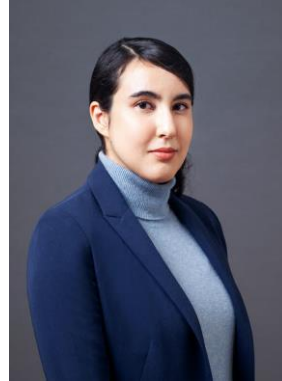
Fernando Ortiz Montoya



## Zero carbon cities in Japan: current strategies and future challenges

Fernando Ortiz-Moya is an architect and urban planner with a training in human geography. His research focuses on global transformations of urban systems, and particularly on shrinking cities, analysing the responses given in different countries to the problems generated by decay. In studying shrinking cities, Fernando has also approached them from a cinematic perspective, analysing how the film media portrays the ongoing changes of our built environment. His more recent work explores urban-based solutions to confront climate change. Fernando is currently a Policy Researcher at the Institute for Global Environmental Strategies (IGES) in Japan. Before joining IGES, he held a position at the University of Nottingham Ningbo, China. He has a Doctorate in Architecture from the University of Tokyo, an MSc in Urban Studies from the University of Edinburgh, and an MArch in Architecture and Urban Planning from the Technical University of Madrid.

Emma Saraff



## An Overview of Contemporary Japanese Decarbonization Policies

Emma Saraff is a public policy consultant based in Tokyo, chiefly working on issues of energy and environment. She has previously worked at the University of Tokyo and at the EU-Japan Centre for Industrial Cooperation as an Energy Expert. Her main areas of expertise are Japanese public policy and environmental advocacy.

Khee Poh Lam



## Net-positive Energy Buildings – an NUS-SDE Case Study

Professor Lam is a licensed architect, educator and researcher who specializes in computational design support systems for total building performance analysis and building diagnostics. He is a Director of the Centre for Liveable Cities Ltd., Singapore, and Advisory Board member of Delos, USA. He is a building performance consultant for several major award-winning projects and certified green buildings in Singapore, China and USA. He was awarded the 2013 Alexander Schwarzkopf Prize from the US National Science Foundation “for exemplary research contribution to technology innovation and positive impact on technology, industry and the society as a whole”. He also received the IBM Faculty Award in 2010. He was conferred the inaugural iBuildSG LEAD Distinguished Fellow by the Building and Construction Authority, Singapore in 2020.

Bo Qin



## Low- and net-zero carbon city initiatives in China: energy transition, spatial planning, and the others

Dr. QIN Bo is a professor and former Head of the Department of Urban Planning and Management, acting director of the Public Policy Lab, School of Public Administration and Policy, Renmin University of China. Professor Bo Qin holds the Bachelor of Engineering in urban planning from Wuhan University in 2000. He also obtained a Master of Science in Human Geography from Peking University in 2003, and a Ph.D. from the School of Design and Environment at the National University of Singapore in 2007. His research interests include urban internal spatial structure and urban sustainable development. Recently his research has focused on spatial planning for low carbon city and healthy city. He has published more than 80 articles in international and Chinese academic journals in urban planning and urban studies, including the journals such as the Journal of American Planning Association, Landscape and Urban Planning, Urban Studies, etc. He has also completed 8 projects funded by the National Natural Science Foundation of China, more than twenty consultant projects for the central and local governments in China, and (co)authored nine books in both Chinese and English.