



Sustainability and Climate Change Experts Available for Comment

Name of spokesperson	Title and background	Current projects / Prominent research findings	Research areas/ interests
Climate Change and Environmental Policy			
Prof. Xu Yuan	<ul style="list-style-type: none"> Associate Professor, Department of Geography and Resource Management Programme Leader (Environmental Policy and Governance), Institute of Environment, Energy and Sustainability 	<ul style="list-style-type: none"> China-India Technology Collaboration for Renewable Energy under the Belt and Road Initiative Wind or Solar? The Political Economy of Fuel Competition between Renewables Integrating satellite data for compliance monitoring on CO₂, SO₂ and NO_x in China's emission hotspots: A case study 	<ul style="list-style-type: none"> Environmental policy, governance and strategy Energy transition and climate mitigation Political economy
Prof. Francis, C Y Tam	<ul style="list-style-type: none"> Associate Professor, Earth System Science Programme Climate Analysis Advisory Committee Member, APEC Climate Center 	<ul style="list-style-type: none"> The projected effects of urbanization and climate change on summer thermal environment in Guangdong-Hong Kong-Macao Greater Bay Area of China Urbanization impacts on Pearl River Delta extreme rainfall – sensitivity to land cover change vs anthropogenic heat 	<ul style="list-style-type: none"> Tropical atmospheric circulation and the Asian monsoon, and their future behavior under climate change Seasonal climate predictability and regional climate predictions Urbanization and climate change

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Ecology and Climate			
Prof. Amos Tai	<ul style="list-style-type: none"> Associate Professor, Earth System Science Programme Associate Director, Institute of Environment, Energy and Sustainability 	<ul style="list-style-type: none"> Impacts of climate, land cover and land use changes on air quality Air pollutant-climate-vegetation interactions and their implications for air quality, climate change and ecosystem productivity Sustainable agriculture and food security under global environmental changes Factors controlling East Asian dust variability and implications for ocean biogeochemistry and climate 	<ul style="list-style-type: none"> Atmospheric chemistry and physics Air pollution, agricultural and forest meteorology Biosphere-atmosphere interactions and ecoclimatology Ecosystem services and food security under climate change



Prof. Joe Lee	<ul style="list-style-type: none">• Professor and Director, Simon F S Li Marine Science Laboratory, School of Life Sciences• Director, Institute of Environment, Energy and Sustainability	<ul style="list-style-type: none">• Environmental sustainability of coastal megacities• Trophodynamics of soft-sediment coastal habitats in Hong Kong• Global Wetlands Project (GLOW)• Dynamics of “Blue Carbon” in sub-tropical mangrove environments	<ul style="list-style-type: none">• Ecology and biogeochemistry of estuarine wetlands such as mangroves and saltmarshes• Application of stable isotopes in marine environmental research• Marine ecosystem dynamics, rehabilitation and restoration
Prof. Lam Hon Ming	<ul style="list-style-type: none">• Professor, School of Life Sciences• Director, State Key Laboratory of Agrobiotechnology• Director, RGC-AoE Center for Genomic Studies on Plant-Environment Interaction for Sustainable Agriculture and Food Security• Associate Director, Institute of Plant Molecular Biology & Agricultural Biotechnology	<ul style="list-style-type: none">• Global Food Security, Climate Change and Resilience: An International Perspective• Possible roles of a plant ribosome-associated protein on translational regulation• Characterization of soybean multidrug and toxin extrusion (MATE) transporters that regulate the accumulation of flavonoid phenolic metabolites in soybean seeds• Site-directed mutagenesis to delineate the interactions of a plant regulator which loves to interact	<ul style="list-style-type: none">• Climate-smart and sustainable agriculture• Plant and agricultural biotechnology• Genomic studies on crop-environment interaction
Prof. Derrick Lai	Associate Professor, Department of Geography and Resource Management	<ul style="list-style-type: none">• Soil greenhouse gas emissions in a Subtropical Secondary Forest and Wetlands• The climate footprint of wetlands under human pressure	<ul style="list-style-type: none">• Carbon Cycling in Terrestrial and Wetland Ecosystems• Urban Ecology and Biogeochemistry• Ecosystem Restoration and Management• Soils and the Environment• Sustainable Agriculture



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Urban Planning and Green Architecture			
Prof. Edward Ng	<ul style="list-style-type: none"> • Professor of Architecture, School of Architecture • Associate Director, Institute of Future Cities • Member, Expert Advisory Panel. Hong Kong 2030+ 	<ul style="list-style-type: none"> • Local Climate Zones data for Chinese cities and regions • HK Wind LiDAR Measurement Project • Outdoor Thermal Comfort in High-density Cities - Implications on Urban Planning and Design 	<ul style="list-style-type: none"> • Green Building • Environmental and Sustainable Design • Urban Climatology for City Planning
Prof. Ng Mee Kam	<ul style="list-style-type: none"> • Vice-Chairperson of Department of Geography and Resource Management • Director, Urban Studies Programme • Associate Director, Institute of Future Cities • Associate Director, Hong Kong Institute of Asia-Pacific Studies 	<ul style="list-style-type: none"> • A critical review of the Hong Kong Planning Standards and Guidelines (HKPSG) through the lens of people's rights to spatial development for multifaceted well-being • Reinventing 'commons' in the New Territories, Hong Kong: institutional challenges and planning implications • A multi-dimensional 'point-line-plane' approach for industrial heritage conservation in Hong Kong: a case study of Ma on Shan (MOS) Iron Mine • Responsive or transformative practice'? Strategic spatial planning in Hong Kong, Singapore and Shenzhen 	<ul style="list-style-type: none"> • Urban planning and governance • Strategic spatial planning • Production of space and the politics of planning • Urban regeneration • Sustainable development community planning
Prof. Lau Ka Lun Kevin	<p>Research Assistant Professor, Institute of Future Cities</p>	<ul style="list-style-type: none"> • Outdoor Thermal Comfort in High-density Cities - Implications on Urban Planning and Design • Designing better urban green spaces for active ageing in high-density cities • Data Platform of Urban Environmental Quality for Sustainable and Resilient Cities • Increasing the Resilience to the Health Impacts of Extreme Weather on Elderly People under Future Climate Change 	<ul style="list-style-type: none"> • Effect of urban morphology and vegetation on urban climate and their implications on urban planning and design • Outdoor thermal comfort in urban environment • Healthy communities, environmental and Sustainable Design
Prof. Sylvia Ying He	<ul style="list-style-type: none"> • Associate Professor, Department of Geography and Resource Management 	<ul style="list-style-type: none"> • Future Transport in Hong Kong • Low-carbon transport, individual wellbeing and planetary health in the era of smart cities and new mobilities 	<ul style="list-style-type: none"> • Sustainable Urban Transport • Travel Behavior • Application of Electric Vehicles



		<ul style="list-style-type: none"> Promoting e-mobility in Hong Kong: Institutional and Spatial Contexts, Public Acceptance, and the Location Choice of Public EV Charging Facilities Incorporating institutional and spatial factors in the selection of the optimal locations of public electric vehicle charging facilities: A case study of Beijing, China 	
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Energy and Environmental Engineering			
Prof. Jianbin XU	<ul style="list-style-type: none"> Programme Leader (Energy Technology and Conservation) Institute of Environment, Energy and Sustainability Professor, Department of Electronic Engineering 	<ul style="list-style-type: none"> Smart Solar Energy Harvesting, Storage and Utilization Advance in high-quality graphene and organic field-effect transistors at room temperature 	<ul style="list-style-type: none"> Near-field and nanoscopic sensing and imaging Nanotechnology for electronics / photonics Thin film technology Physics and technology of organic semiconductor devices Oxide based electronic and photonic materials and devices Solar energy technology Graphene electronics / optoelectronics
Prof. Yi-Chun LU	<ul style="list-style-type: none"> Associate Professor, Department of Mechanical and Automation Engineering 	<ul style="list-style-type: none"> Electrode and electrolyte design for high-energy aqueous batteries and metal-air/sulfur batteries. Redox-active components and solution chemistry for redox-flow batteries. Electrocatalysts and electrode design for low-temperature fuel cells and electrolyzers 	<ul style="list-style-type: none"> Electrochemical Energy & Interfaces Aqueous batteries Flexible, rechargeable batteries Metal-air & Metal-sulfur batteries Redox flow batteries
Prof. Chun CHEN	<ul style="list-style-type: none"> Assistant Professor, Department of Mechanical and Automation Engineering 	<ul style="list-style-type: none"> Review of radiative cooling materials: performance evaluation and design approaches An ordered probability model for predicting outdoor thermal comfort A method of assessing the energy cost saving from using an effective door closer 	<ul style="list-style-type: none"> Energy and Comfort in the Built Environment Building energy system Radiative cooling