

Salil K Sen  
 PhD MBA, BE [Mechanical],  
 Integrated Approaches to Sustainable Development Practice [Earth Institute, Columbia University]  
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**Bio Statement:**

Curriculum Development & Dissemination: incorporating Sustainability Innovation onto  
 Sustainability Transforms: Water ~ Waste ~ Energy ~ Health ~ Wellbeing  
 Living Labs: solution-orientation for implementability of climate-focused, disaster-resilient, ESG-compliance  
 Sustainability Practitioner & Lifelong Learner: Multi-habitat, multi-laterality, multi-disciplinary experience in twenty plus  
 more global locations

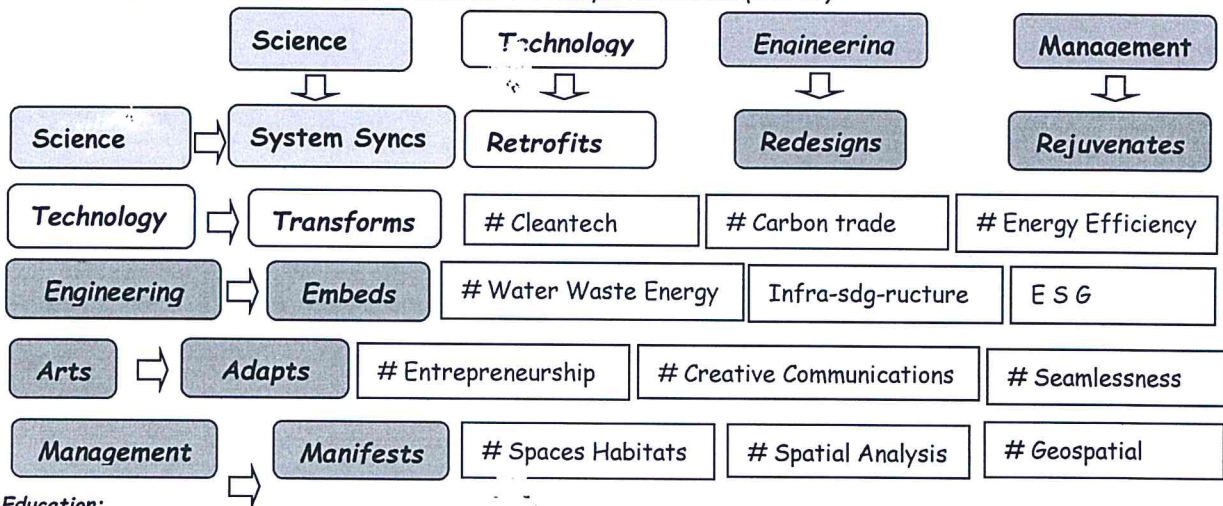
**Competencies**

# Certified by the **Earth Institute at Columbia University, NY USA** on # Integrated Approaches to Sustainable  
 Development Practice  
 # Consulting with reputable institutions, **Asian Development Banks, Energy Research Institute at the Nanyang  
 Technological University**

**Curriculum Curation, Teaching: Sustainability "Living Labs": Designing, Reviewing**

# Competitiveness (i) Systems, Sustainability and Social Justice (ii) Sustainability Review and Reporting (iii) Business, Ethics  
 (of Water Waste Energy) and Sustainability  
 # Sustainable Differentiation (i) retrofittability (ii) rejuvenation (iii) redesignability (iv) nurture entrepreneurial spirit  
 # Implementability to specific habitat characteristics: Sustainability Reporting of space-habitats- hinterlands.  
 # Differentiated development: Linking robust rural with smart urban, leading to Rurbanization. Seamless declutters,  
 empowers local governance, enhances entrepreneurial spirit of "We Own".  
 # Renewable Energy  
 # Carbon Credit mechanisms  
 # Sustainability standards, Carbon Capture and Utilization

*STEM to STEAM linked with Sustainable Development Goals (SDGs)*



**Education:**

Professional Certificate from: The Earth Institute at Columbia University	Global Classroom on 'Integrated Approaches to Sustainable Development Practice'
Doctor of Philosophy (PhD) Asian Institute of Technology (AIT), School of Management, Thailand	Dissertation: <b>Societal, Environmental and Stakeholder drivers of competitive advantage in international firms</b> features in the All Time Top ten based on downloads
Master of Business Administration (MBA) FMS, University of Delhi, India	Award for paper: <b>Societal Advertising</b> at the hands of Honourable Vice President of India
Bachelor of Engineering (Mechanical Honors) NIT Durgapur	Award for paper: <b>Preventive Maintenance</b> on the theme: <b>Habitat</b> at the Diamond Jubilee Institution of Engineers (India) Conference at Mumbai.

(a) Sustainability Research (b) Teaching (c) Journal Publishing (d) Curriculum retrofit (e) Consulting

<b>(a) Research &amp; Practice</b>	<b>Industry experience</b>
>> <b>Rurbanization:</b> Rural Urban differential Development	>> <b>Tata Motors: Industrial Engineering and Systems Integration</b>
>> <b>Infra-sdg-structure:</b> Embedding Sustainable Development Goals with Infrastructure	>> <b>Alfa Laval India: Waste Heat &amp; Waste fluids recovery</b> >> <b>Larsen &amp; Toubro and Caterpillar: Source development</b> >> <b>Cummins Nigeria: ISO9000 ISO14000 QS9000 Excel Cummins</b> >> <b>India - Spain pineapple exports project: Cold supply chain</b>
>> <b>Sustainability Reporting:</b> Sustainability Seamlessness	
<b>(b) Teaching: "Living Lab" format</b>	<b>Courses taught</b>
Chulalongkorn University, Bangkok Indian Institute of Technology Roorkee, India SUMAS, Geneva Switzerland; IMT, Evry France; NIDA, Bangkok Thailand; NTU Singapore; University of Redlands, Southern California, USA; UIBE Beijing China; FMS Delhi India; AIM Manila Philippines,	Public Policy: Sustainability with focus on Water Waste Energy inter-relatedness Research Methodology with focus on Geo-spatial Statistics Sustainability, CSR, Ethics of Water Waste Energy Operations & Supply Chain Management focus Disasterproofing Sustainable Infrastructure with focus on Land Use Planning, Environmental Economics
<b>(c) Publishing: Scimago/Scopus</b>	<b>Themes: Education for Sustainability</b>
Environment Urbanization ASIA: Scimago Q2 International Journal of Energy Economics and Policy: Q2 Journal of Cleaner Production: Scimago Q1 Sustainability: The Journal of Record: Scimago Q4 Competitiveness Review: Scimago Q1	(2021). Governance and sustainable development at higher education institutions. Environment, Development and Sustainability, 23, 6002-6020. Scopus Q2 (2019) The role of higher education institutions in sustainability initiatives at the local level. Journal of Cleaner Production, 233, 1004-1015, 2019
<b>(d) Curriculum Development: retrofit, redesign, embed Sustainable Development Goals</b>	
Course: Responsible Management: SUMAS Geneva	Transform to Sustainable Consumption & Production, ESG driven Finance, Disaster resilient Infrastructure
Course: Business Ethics & Society: Redlands, USA	Embedded Water Waste Energy onto Ethics
<b>(e) Multilateral Developmental Institutions</b>	<b>Projects</b>
Kyoto University, Japan ERI@N Nanyang Technological University, Singapore, Asian Development Bank, Manila, UNESCAP, Bangkok UNOPS, Geneva UNEP, ROAP and RRCAP, Bangkok Private sector conglomerate Bank	Disaster resilient infrastructure "Minus ten" initiative for energy efficiency Assessment of energy reform pathways Environmentally friendly transfer of technology Aligning top-down bottom-up finance Creative Communications for Sustainability Sustainability materiality assessment

Recognition from Social Science Research Network (SSRN) all-time top ten Dissertation: Societal Environmental and Stakeholder drivers of Competitive advantage in International Firms. Web-link:

<https://papers.ssrn.com/sol3/topTen/topTenResults.cfm?groupingId=946619&netor:jrnl=jrnl>

**Sustainability Consulting:**

Asian Development Bank, Ortigas, Philippines, 2014 to 2016:

Projects: (i) Assessment of energy reform pathways aligning (a) Georgia in Central Asia (b) Sri Lanka in South Asia (c) Vietnam in Southeast Asia.

(ii) Aligning top-down bottom-up finance for disaster resilient infrastructure sub-sectors

(iii) Energy efficiency East Asia