Course title: Sustainable Consumption and Production			
Course code:	**No. of credits:** 4	**L-T-P:** 42-6-12	**Learning hours:** 42
Pre-requisite course code and title (if any): NA			
Faculty: Faculty of Policy and Planning	**Department:** Department of Policy Studies		
Course coordinator: Shaleen Singhal	**Course instructor:** Shaleen Singhal		
Contact details: ssinghal@teri.res.in			
Course type: Compulsory	**Course offered in:** Semester 2		

Course description:

Countries in South Asian region are witnessing rapid transformation. It is evident that future prosperity and transition to sustainability in this region will be highly influenced by changes in development of the countries and businesses as well as in consumption patterns and lifestyles. There are noticeable awareness generation and capacity building initiatives aiming to promote a shift towards sustainable consumption and production (SCP) patterns and resource efficiency for green growth and poverty reduction in South Asian region. The enabling policy environment needs to be strengthened through enhanced capacity of future decision makers in order to ensure balance between demand and supply side towards SCP. Advanced knowledge, skills and commitment of policy makers and graduates today are critical constituents necessary to structure and successfully implement sustainable development policies in future. India in particular, with its young population is likely to rise from twelfth-largest consumer market today, to become world's fifth-largest consumer market by 2025. While the significance of SCP and resource efficiency is well accepted in India, imparting knowledge to policy and decision makers shall facilitate an enabling environment for comprehensive integration of SCP into policy making. This is being aimed through the first-of-its-kind post graduate course in India for young policy and decision makers.

Course objectives:

- To impart knowledge on SCP concepts, significance and advancements within India and wider South Asia region in order to create a pool of better informed future policy makers.
- To equip young policy makers with knowledge on demand side and supply side challenges and opportunities relating to SCP
- To equip young policy makers for policy analysis of select sectors targeting to mainstream SCP into policy.

Course Contents

Module	Topic	L	T	P
1	**Introduction to Sustainable Consumption and Production (SCP)** **a) Significance** – SCP and its significance for Sustainable Development – Linking SCP with Sustainable Development Goals – Review of SCP Targets under SDG and crosscutting targets and indicators – Internalizing SCP elements in development goals of poverty reduction, resource efficiency, sustainable livelihoods, climate change mitigation/adaptation **b) Theoretical context** – Sustainable Consumption in conjunction with Sustainable Production – Life Cycle Thinking and Systems Approach Customize policy discussion for India's economic/environmental scenario with specific reference to consumption, production and links with economic growth	6	2*	

	c) Contemporary thinking – Reviewing SCP and SDG's transformative indicators. Gap analysis relating to achieving SDGs (policy, practice, financing, technology gaps) – International approaches: Global SCP Policies and Practices (Cases examples from countries which have adopted SCP goals). – Innovative ideas for SCP that can integrate with existing policy features. *(Brainstorming tutorial on framework for gap analysis for identified sectors)* **Initiation for framework for policy analysis.*			
2	**SCP in Regional, National and Local Policy Frameworks** – SCP and Collective Impact - governance and advocacy principles – Challenges and opportunities for SCP in emerging economies o Regional focus on European Union, ASEAN and South-Asian sub-regional integration of SCP into public governance frameworks – National focus on India – State level focus and progress across Indian states on SCP topics *(Case example such as Sikkim state advancing as a fully organic state; Community forest user groups in Nepal; Slum dwellers in Karachi, Nairobi, and Pune shall be discussed)*	6		
3	**Demand-side: Sustainable Behaviours and Lifestyles** – Consumer Choices and Behaviours: How do consumers determine eco-friendliness of products? Consumer value-action gap, behavioural vs. regulatory obstacles to sustainable consumption choices, consumption 'hot spots', 'choice editing' and its effectiveness, advertisement control, etc. – Mechanisms for promoting behavioral changes, o Promotional activities to attract consumers Roles, responsibilities, and rights of consumers o Sustainable Public Procurement 'Green procurement' in government and private sector targeted through awareness and education campaigns on sustainability for consumers Production optimization based on prevailing consumption patterns o Learning from success and failures *(Case example such as Eco-labelling, Star Rating and corporate product information disclosure, green rating of products, Right to Repair, Education for Sustainable Consumption (ECS), initiatives like Green School in China, Eco-citizen Programme in Brazil and other global, regional and local exemplars and new approaches)* ***1st Minor poster presentation*	6	4**	
4	**Supply-side: SCP for Resource Efficiency and Cleaner Production**	6		6*

	– Designing for sustainability: Process, product and systems innovation – improved production processes, eco-friendly products, innovative low-impact technologies, supply chain management – Zero waste / Circular economy across interlinked sectors – Adoption of cleaner production processes (efficiency in production, resources management including energy, water and materials) *(Case examples relating to sustainable energy production, resource efficiency and urban planning like social aspects of sustainability: construction products from mining waste in South Africa; new products and reuse: Ragbag in India, product innovation – solar lantern for the Cambodian market shall be discussed)* **Study visit*			
5	**Mainstreaming SCP I - Development and Implementation of Policies** – Existing SCP elements/practices in development goals Regional, national and sectoral specificities – Identifying the target policies and instruments for implementing SCP Current policy provisions: o Enhancement for effectiveness o Cross ministry interface o Need for alternatives – Planning and implementation: SCP integration into existing policy structures. Exploring stakeholder engagement in policy-making – Monitoring and Evaluation: Assessment of sustainable production (upstream) and sustainable consumption (downstream) activities and policies. – Ensuring implementation of SCP practices in production and consumption activities, adherence to directives as well as effectiveness and efficacy of said practices. *(Case examples examining the process of mainstreaming SCP like application of environmental fiscal reforms and charges in Cambodia, sustainable public procurement in Philippines, strategic environmental assessment in Vietnam, social protection instruments in Bolivia, green innovation policies in China etc., shall be discussed)*	6		
6	**Mainstreaming SCP II – Sectoral Strategies for Urban Settlements** – Urban and rural development planning – Infrastructure for resource efficient cities – Waste management – Innovations through renewable electricity grids – Legal codes and standards for resource efficiency in: o Food Production o Buildings	6		6*

	○ Transportation ○ Tourism *(Case examples focusing on sectoral initiatives from cities in India and South Asia shall be discussed)* **Study visit*			
7	**Mainstreaming SCP III - Economic and Fiscal instruments** – Financial models for SCP: – Government based taxes and subsidies and user fees – Green public procurement – Using polluter pays principle – such as air, water pollution tax, carbon tax etc. – Green investment loan – Conditional cash transfer programmes – SCP in MSMEs: – Internalizing SCP in business strategies and supply chains – Depreciation rules for efficient technology and investment allowance for energy-efficient / green technologies – Engage in designing and enforcing new laws and regulations regarding EFR – Reduction of environmentally harmful subsidies (like reduce fuel subsidies *(Case examples and case studies relating to urban services such as water and waste management, micro-irrigation, financing for MSMEs and community initiatives, agribusiness financing and green retail addressing trade-offs in designing economic and fiscal instruments shall be discussed)*	6		
	Policy analysis report final presentation			
	Total	**42**	**6**	**12**

Evaluation criteria:
Course assessment will be conducted through:

Minor I: Essay and poster presentation (Individual assignment)

Essay (around 1500 words) and poster presentation focused on cross cutting thematic areas such as - Sustainable Public Procurement; Resource Efficiency and Cleaner Production; Behavioral aspects of Consumer Choices ; Production optimization based on prevailing consumption pattern; Green Budgeting and Macroeconomics; Sustainable Energy Access, Policy and Management; Strategic Planning and Investment for Resource Efficient Cities; and Sustainable Tourism and Environmental Services. These shall be examined for India and other countries. (Essay and poster presentation shall be structured through literature review and content analysis of select case studies/ best practice examples from different sectors).

Minor II: Policy analysis report (Group based assignment)

Policy analysis for preparedness to achieve SDGs in select sectors. A framework for analysis shall be developed through the tutorial sessions during the course. Written report (around 3500 words) and presentation to the panel.

Learning outcomes:

On successful completion of this course, the students shall,

- Have an improved understanding of SCP and interrelationship between sustainable consumption and sustainable production
- Be able to compare and contrast effective applications and business case for SCP in sustainable development with reference to specific countries and economic sectors
- Be able to examine the potential synergy of SCP with existing plans and policies
- Have learned the significance of various policy instruments, strategy options and institutional arrangements to mainstream SCP for effective sustainable development governance.

Pedagogical approach: The course will be delivered through a mix of classroom lectures, brainstorming tutorial and presentation sessions, study visits and exposure to national, regional and global case studies on the theme.

Materials:

Reading List

Module 1 – Introduction to Sustainable Consumption and Production (SCP)

Essential Readings

1. Akenji, L. and Bengtsson, M., 2014. Making Sustainable Consumption and Production the Core of the Sustainable Development Goals, Sustainability, 6 (2014): 513-529. Available at: http://www.mdpi.com/2071-1050/6/2/513
2. Chiu, S.F., Ward, J. V., and Massard, G., 2009. Introduction to the special issue on Advances in Life-Cycle Approaches to Business and Resource Management in the Asia-Pacific Region, Journal of Cleaner Production, 17(14): 1237-1240. Available at: http://www.sciencedirect.com/science/article/pii/S0959652609001383
3. Rebitzer, G., Ekvall, T., Frischknecht, R., Hunkeler, D., Norris, G., Rydberg, T., Schmidt, W. –P., Suh, S., Weidema, B.P., and Pennington D.W., 2004. Life cycle assessment: Part 1: Framework, goal and scope definition, inventory analysis, and applications, Environment International, 30 (5): 701-720. Available at: http://www.sciencedirect.com/science/article/pii/S0160412003002459
4. Sustainable Consumption and Production in the Proposed Sustainable Development Goals – A paper from the Inter-Agency Coordination Group (IACG) of the 10 Year Framework of Programmes on SCP (10YFP). June, 2014. Available at: www.unep.org/10yfp/Portals/50150/10YFP%20IACG.pdf
5. UNEP, 2012. Global Outlook on SCP Policies: Taking action together. Available at: http://www.unep.org/pdf/Global_Outlook_on_SCP_Policies_full_final.pdf

Recommended Readings

1. Le Blanc, D., 2015. Towards integration at last? The Sustainable Development Goals as a network of targets, UN Department of Economic and Social Affairs (UN DESA) Working Paper No. 141. Available at: www.un.org/esa/desa/papers/2015/wp141_2015.pdf
2. Lorek, S. and Spangenberg, J. H., 2014. Sustainable consumption within a sustainable economy – beyond green growth and green economies, Journal of Cleaner Production, 63 (2014): 33-44. Available at: http://www.sciencedirect.com/science/article/pii/S0959652613006008
3. SWITCH-Asia Projects, Case studies. See: http://www.switch-asia.eu/publications/?tx_switchasia_publications[category]=3&cHash=187075de03e4a5e1f168fb8ab798b9fb
4. SWITCH-Asia Project Impact Sheet: Green Retail India – Greening the food and beverage supply chain in India. Available at: http://www.switch-asia.eu/publications/greening-the-food-and-beverage-supply-chain-in-india/

5. UNEP, 2010. ABC of SCP – Clarifying Concepts on Sustainable Consumption and Production: Towards a 10-Year Framework of Programmes on Sustainable Consumption and Production.
6. UNEP, 2012. Sustainable Consumption and Production for Poverty Eradication. Available at: http://www.unep.org/10yfp/Portals/50150/downloads/publications/poverty/SCP_for_Poverty_full.pdf
7. UNEP, 2015. Sustainable Consumption and Production Indicators for the Future SDGs. Available at: http://www.scpclearinghouse.org/upload/publication_and_tool/file/440.pdf

Module 2 – SCP in Regional, National and Local Policy Frameworks

Essential Readings

1. Brizga, J., Mishchuk, Z., and Golubovska-Onisimova, A., 2014. Sustainable Consumption and Production Governance in Countries in Transition. Journal of Cleaner Production, 63 (2014): 45-53. Available at: http://www.sciencedirect.com/science/article/pii/S0959652613003922
2. Chandel, S.S., Shrivastava, R., Sharma, V., and Ramasamy, P., 2016. Overview of the Initiatives in Renewable Energy Sector under the National Action Plan on Climate Change in India, Renewable and Sustainable Energy Reviews, 54: 866-873. Available at: http://www.sciencedirect.com/science/article/pii/S1364032115011363
3. UNDP-UNEP, 2014. Building Inclusive Green Economies – Stories of Change from the Poverty-Environment Initiative in Asia-Pacific.
4. Zhao, W. and Schroeder, P., 2010. Sustainable consumption and production: Trends, challenges and options for the Asia-Pacific region, Natural Resources Forum, 34(1): 4-15. Available at: http://onlinelibrary.wiley.com/doi/10.1111/j.1477-8947.2010.01275.x/pdf

Recommended Readings

1. (2013) Low-Carbon Green Growth in Asia Policies and Practices: A Joint Study of the Asian Development Bank and the Asian Development Bank Institute. Available at: http://www.adb.org/publications/low-carbon-green-growth-asia-policies-and-practices
2. Decoupling 2: technologies, opportunities and policy options. A Report of the Working Group on Decoupling to the International Resource Panel. von Weizsäcker, E.U., de Larderel, J, Hargroves, K., Hudson, C., Smith, M., Rodrigues, M.

Module 3 – Demand-side: Sustainable Behaviours and Lifestyles

Essential Readings

1. Biswas, A. and Roy, M, 2015. Green products: an exploratory study on the consumer behaviour in emerging economies of the East, Journal of Cleaner Production, 85: 463-468. Available at: www.sciencedirect.com/science/article/pii/S0959652614010142
2. Fruntes, C., 2014. Ecolabels – Important Tools in Developing a Sustainable Society. A Global Perspective, Economic Sciences, Series V, 7(2): 267-274. Available at: http://search.proquest.com/docview/1658463165
3. Mehta, P.S., 2007. Why was India's Ecomark Scheme Unsuccessful?, Research Report, CUTS CITEE, Jaipur. Available at: http://www.cuts-citee.org/pdf/RREPORT07-01.pdf
4. Tseng, S. and Hung, S., 2013. A framework identifying the gaps between customers' expectations and their perceptions in green products, Journal of Cleaner Production, 59: 174-184. Available at: http://www.sciencedirect.com/science/article/pii/S0959652613004411

Recommended Readings

1. Akenji, L., 2014. Consumer scapegoatism and limits to green consumerism, Journal of Cleaner Production, 63: 13-23. Available at: http://www.sciencedirect.com/science/article/pii/S0959652613003405

2. Chekima, B., Wafa, S.A., Igau, O.A., Chekima, S., and Sondoh Jr., S.L., 2016. Examining green consumerism motivational drivers: does premium price and demographics matter to green purchasing?,

   Journal of Cleaner Production, 112(4): 3436-3450. Available at: http://www.sciencedirect.com/science/article/pii/S095965261501330X

3. Green Public Procurement in Bhutan (GPP Bhutan), 2015. Executive Summaries of Year 1 Activity Reports. Available at: http://gppbhutan.bt/project-publications

4. Johnstone, M-L., and Tan, L.P., 2015. An exploration of environmentally-conscious consumers and the reasons why they do not buy green products, Marketing Intelligence & Planning, 33 (5): 804-825. Available at: http://www.emeraldinsight.com/doi/full/10.1108/MIP-09-2013-0159

5. Ritter, A.M., Borchardt, M., Vaccaro, G.L.R., Pereira, G.M., and Almeida, F., 2015. Motivations for promoting the consumption of green products in an emerging country: exploring attitudes of Brazilian customers, Journal of Cleaner Production, 106: 507-520. Available at: http://www.sciencedirect.com/science/article/pii/S0959652614012736

6. UNEP, 2013. Redefining Ecolabels to Improve Sustainability and Trade in Developing Countries: Lessons and Recommendations from the UNEP project.

7. Vermeir, I. and Verbecke, W., 2006. Sustainable Food Consumption: Exploring the Consumer "Attitude – Behavioural Intention" Gap, Journal of Agricultural and Environmental Ethics, 19(2): 169-194. Available at: http://link.springer.com/article/10.1007/s10806-005-5485-3

Module 4 – Supply-side: SCP for Resource Efficiency and Cleaner Production

Essential Readings

1. Ahi, P. and Searcy, C., 2013. A comparative literature analysis of definitions of green and sustainable supply chain management, Journal of Cleaner Production, 52 (2013): 329-341. Available at: http://www.sciencedirect.com/science/article/pii/S095965261300067X

2. Rathi, A.K.A., 2003. Promotion of cleaner production for industrial pollution abatement in Gujarat (India), Journal of Cleaner Production, 11(5): 583-590. Available at: http://www.sciencedirect.com/science/article/pii/S095965260200094

3. Valdivia, S., Bajaj, S., Sonneman, G., Quiros, A., and Ugaya C.M.L., 2015. Mainstreaming Life Cycle Sustainability Management in Rapidly Growing and Emerging Economies Through Capacity-Building. In Sonneman, G. and Margni, M. (eds.), Life Cycle Management, LCA Compendium – The Complete World of Life Cycle Assessment: 263-277. Available at: http://link.springer.com/chapter/10.1007/978-94-017-7221-1_19/fulltext.html

4. Tanaka, K., 2011. Review of policies and measures for energy efficiency in industry sector. Energy Policy, 39 (10) (6532-6550). Available at: http://www.sciencedirect.com/science/article/pii/S0301421511005933

5. Tseng, M., Chiu, S. F., Tan R. R., and Siriban-Manalang, A. B., 2013. Sustainable Consumption and Production for Asia: Sustainability through Green Design and Practice, Journal of Cleaner Production, 40 (2013): 1-5. Available at: http://www.sciencedirect.com/science/article/pii/S0959652612003538

Recommended Readings

6. Almeida, C. M. V. B., Agostinho F., Giannetti, B. F., and Huisingh D., 2015. Integrating cleaner production into sustainability strategies: an introduction to this special volume, Journal of Cleaner Production, 96 (2015): 1-9. Available at: http://www.sciencedirect.com/science/article/pii/S0959652614013845

7. De Groene Zaak, 2015. Governments Going Circular. Available from: www.govsgocircular.com/

8. Narasalagi, V.M. and Hegade, G.A., 2013. A Comparative Study on Profitability of Supply Chain Formats in Vegetable Marketing in Karnataka, Journal of Supply Chain Management Systems, 2(1): 33-36.

Available at: http://www.publishingindia.com/GetBrochure.aspx?query=UERGQnJvY2h1cmVzfC8xNDYzLnBkZnwvMTQ2My5wZGY=

9. Rasul, G., Managing the Food, Water, and Energy Nexus for Achieving the Sustainable Development Goals in South Asia, Environmental Development, 18, April 2016: 14-25. Available at: http://www.sciencedirect.com/science/article/pii/S2211464515300646
10. SWITCH-Asia Case Study: Up-scaling Biogas Technology for Sustainable Development and Mitigating Climate Change in Sri Lanka. Available at: http://www.switch-asia.eu/publications/bio-gas-case-studies/
11. UNEP, 2009. Mainstreaming Sustainable Consumption and Production and Resource Efficiency into Development Planning. Available at: http://www.unep.fr/shared/publications/pdf/DTIx1235xPA-MainstreamingSCPintoDevPlanning.pdf
12. UNEP, 2014. The Business Case for Eco-Innovation.
13. UNEP, 2015. Indicators for a Resource Efficient and Green Asia and the Pacific - Measuring progress of sustainable consumption and production, green economy and resource efficiency policies in the Asia-Pacific region. Schandl, H., West, J., Baynes, T., Hosking, K., Reinhardt, W., Geschke, A., and Lenzen, M. United Nations Environment Programme, Bangkok. Available at: http://www.switch-asia.eu/fileadmin/user_upload/RPSC/Publications/Indicator-for-a-RE_Low-resolution_.pdf
14. Wuppertal Institute for Climate, Environment and Energy, 2013. Lighting: Energy Efficient Lighting for Sustainable Development.

Module 5 – Mainstreaming SCP I: Development and Implementation of Policies

Essential Readings

1. Mont, O., Neuvonen, A., and Laehteenoja, S., 2014. Sustainable Lifestyles 2050: Stakeholder Visions, Emerging Practices and Future Research. Journal of Cleaner Production, 63 (2015): 24-32. Available at: http://www.sciencedirect.com/science/article/pii/S095965261300601X
2. SWITCH-Asia SCP E-book Module 2 (3rd Edition) - Designing and Implementing National SCP Policies: The Policy Cycle and SCP in National Governance Structures
3. UNEP, 2012. Sustainable Consumption and Production: A Handbook for Policy Makers with Cases from Asia and the Pacific (First Edition)
4. UNEP, 2015. Sustainable Consumption and Production: A Handbook for Policymakers, Second Edition – Asia-Pacific Region.

Recommended Readings

1. Castro-Hallgren, S., 2016. UNEP Background Paper to Inform National Policy Activities in India on Sustainable Consumption and Production in 2016
2. UNEP, 2013. SWITCH-ASIA Regional Policy Support Component, Capacity Building and Policy Needs Assessment for Sustainable Consumption and Production. Available at: www.switch-asia.eu/.../policy-assessment/Needs-Analysis-Final-report.pdf

Module 6 – Mainstreaming SCP II: Sectoral Strategies for Urban Settlements

Essential Readings

1. Bhattacharyya, S.C. and Palit, D., 2016. Mini-grid based Off-grid Electrification to Enhance Electricity Access in Developing Countries: What Policies May be Required?, Energy Policy, 94 (2016): 166-178. Available at:

http://www.sciencedirect.com/science/article/pii/S0301421516301781

2. de Oliveira, J.A.P., 2013. Learning How to Align Climate, Environmental and Development Objectives in Cities: Lessons from the implementation of Climate Co-benefits Initiatives in Urban Asia, Journal of Cleaner Production, 58, November 2013: 7-14. Available at: http://www.sciencedirect.com/science/article/pii/S0959652613005313
3. Hassan, A. M. and Lee, H., 2015. Toward the sustainable development of urban areas: An overview of global trends in trials and policies. Land Use Policy, 48 (2015): 199-212. Available at: http://www.sciencedirect.com/science/article/pii/S0264837715001398
4. Raghupathy, L. and Chaturvedi, A., 2013. Secondary Resources and recycling in developing economies. Science of The Total Environment, 461-462: 830-834. Available at: http://www.sciencedirect.com/science/article/pii/S0048969713005846
5. Singhal, S., Berry, J., and McGreal, S., 2010. Linking Regeneration and Business with Competitiveness for Low Carbon Cities: Lessons for India. In India Infrastructure Report 2010: Infrastructure Development in a Low Carbon Economy: 374-389. Available at: http://www.idfc.com/pdf/report/Chapter-23.pdf
6. SWITCH-Asia Briefing, 2015: Sustainable Tourism in Asia. Available at: http://www.switch-asia.eu/publications/switch-asia-briefing-sustainable-tourism-in-asia/

Recommended Readings

7. Arora, K., Kumar, A., and Sharma, S., 2014. Energy from Waste: Present Scenario, Challenges, and Future Prospects towards Sustainable Development. In Sustainable Practices: Concepts, Methodologies, Tools, and Applications (pp. 1519-1543). Available at: http://www.igi-global.com/chapter/energy-from-waste/95010
8. Anantharaman, M., 2014. Networked ecological citizenship, the new middle classes and the provisioning of sustainable waste management in Bangalore, India. Journal of Cleaner Production, 63 (173-183). Available at: http://www.sciencedirect.com.ezproxy1.bath.ac.uk/science/article/pii/S0959652613005921
9. Bhattacharyya, S. C. and Palit, D., 2016. Enabling Policies for Advancing Sustainability of Electricity Access Programs. In A. Goswami, & A. Mishra (Eds.) Economic Modeling, Analysis, and Policy for Sustainability (pp. 177-193). Hershey, PA: Business Science Reference. Available at: http://www.igi-global.com/chapter/enabling-policies-for-advancing-sustainability-of-electricity-access-programs/150101
10. Choudhary, P., 2016. 17 – Vernacular Built Environments in India: An Indigenous Approach for Resilience, In Shaw, R., Rahman, A., Surjan, A., and Parvin, G.A. (eds.), Urban Disasters and Resilience in Asia: 269-286. Available at: http://www.sciencedirect.com/science/article/pii/B9780128021699000173
11. Dimitriou, H. T., 2006. Towards a generic sustainable urban transport strategy for middle-sized cities in Asia: Lessons from Ningbo, Kanpur and Solo. Habitat International, 30(4): 1082-1099. Available at: http://www.sciencedirect.com/science/article/pii/S0197397506000166
12. Gouldson, A., Colenbrander, S., Sudmant, A., Papargyropoulou, E., Kerr, N., McAnulla, F., and Hall, S., 2016. Cities and climate change mitigation: Economic opportunities and governance challenges in Asia Journal of Cleaner Production, 54: 11-19. Available at: http://www.sciencedirect.com/science/article/pii/S0264275115001638
13. Joshi, R. and Pathak, M., 2014. Decentralized Grid-connected Power Generation Potential in India: From Perspective of Energy Efficient Buildings, Energy Procedia, 57 (2014): 716-724.

    Available at: http://www.sciencedirect.com/science/article/pii/S187661021401594X
14. Singhal, S. McGreal, S., and Berry, J., 2013. Application of a hierarchical model for city competitiveness in cities of India, Cities 31: 114-122. Available at: http://www.sciencedirect.com/science/article/pii/S0264275112000911
15. Wamsler, C., Brink, E., and Rivera, C., 2013. Planning for Climate Change in Urban Areas: From Theory to Practice, Journal of Cleaner Production, 50, July 2013: 68-81. Available at:

http://www.sciencedirect.com/science/article/pii/S095965261200652X

Module 7 – Mainstreaming SCP III: Economic and Fiscal Instruments

Essential Readings

1. Access to Finance for Sustainable Consumption and Production in Asia – An Overview of Finance Trends and Barriers in India. Available at: http://www.switch-asia.eu/fileadmin/user_upload/Publications/2016/Green_Finance_Study_-_2016_-_India.pdf
2. Dulal, H.B., Dulal, R., and Yadav, P.K., 2015. Delivering green economy in Asia: The role of fiscal instruments. Futures, 73 (61-77).Available at: http://www.sciencedirect.com/science/article/pii/S0016328715001019
3. Kumar, S. and Managi, S., 2009. Compensation for Environmental Services and Intergovernmental Fiscal Transfers: The Case of India, Ecological Economics, 68 (2009): 3052-3059. Available at: http://www.sciencedirect.com/science/article/pii/S0921800909002948
4. Nand Gopal, E. and Ramesh, D., 2014. Resource Efficiency for Sustainability in Ferrous Foundry - A Case of Kolhapur MSME Cluster. Indian Foundry Journal, 60(2) (30-39). Available at: http://www.indianfoundry.org/onlinelibrary/?p=8355
5. Silvestre, B. S., 2015. A hard nut to crack! Implementing supply chain sustainability in an emerging economy. Journal of Cleaner Production, 96 (2015): 171-181. Available at: http://www.sciencedirect.com/science/article/pii/S0959652614000183
6. SWITCH-Asia, 2014. Access to Finance for SMEs – Engaging in Sustainable Consumption and Production Practices. Available at: http://www.switch-asia.eu/fileadmin/user_upload/Switch-AsiaMAG_Winter14-15_Screen.pdf

Recommended Readings

1. (2009) Best Environmental Practices of Marks & Spencer: A Case Study. Greening Retail - Best Environmental Practices of Leading Retailers from Around the World
2. FICCI/UNEP, 2015. Designing a Sustainable Financial System for India: Interim Report. Available at: http://ficci.in/spdocument/20546/UNEP-Interim-Report.pdf
3. Nathadwarawala, J.M., and Nathadwarawala, K.M., 2011. Sustainable Business Initiatives in the Context of Emerging Economies, In B. Unhelkar (Ed.), Handbook of Research on Green ICT: Technology, Business and Social Perspectives: 265-281.

   Available at: http://www.igi-global.com/chapter/sustainable-business-initiatives-context-emerging/48433
4. Pal, P., Sethi, G., Nath, A., and Swami, S., 2008. Towards cleaner technologies in small and micro enterprises: a process-based case study of foundry industry in India. Journal of Cleaner Production, 16(12) (1264-1274). Available at: http://www.sciencedirect.com/science/article/pii/S0959652607001667
5. Perera, O., 2012. The Case for Pursuing Sustainable Public Procurement in Lower Income Countries, The International Institute for Sustainable Development (IISD). Available at: https://www.iisd.org/pdf/2014/spp_lower_income_countries.pdf
6. Shakir, M., 2011. A Framework for the Implementation of Eco-Efficient Business Systems. In Green Technologies: Concepts, Methodologies, Tools and Applications: 220-235. Available at: http://www.igi-global.com/chapter/framework-implementation-eco-efficient-business/51699
7. The Energy and Resources Institute (TERI) Policy Brief (2013). Engagement with Sustainability Concerns in Public Procurement in India: Why and How. Available at: http://www.teriin.org/policybrief/index.php?a=9

8. UNEP, 2010. Pre-SME – Promoting Resource Efficiency in Small & Medium Sized Enterprises.
9. UNEP, 2013. Sustainable Public Procurement: A Global Review.
10. Venkatesh, V. and Luthra, S., 2016. Role of Sustainable Procurement in Sustainable Manufacturing Operations: An Indian Insight. In R. Dubey, & A. Gunasekaran (Eds.), Strategic Management of Sustainable Manufacturing Operations: 132-148. Available at: http://www.igi-global.com/chapter/role-of-sustainable-procurement-in-sustainable-manufacturing-operations/152395

Web links:

Intended Nationally Determined Contributions to UNFCCC; Online at: http://unfccc.int/focus/indc_portal/items/8766.php

SCP Clearinghouse
The Global SCP Clearinghouse is a unique one-stop hub dedicated to Sustainable Consumption and Production (SCP) and convened by the United Nations Environment Programme (UNEP) acting as the Secretariat of the 10 Year Framework of Programmes on SCP (10YFP on SCP); Online at: http://www.scpclearinghouse.org/

SCP Policies and the 10 Year Framework Programme, UNEP; Online at: http://www.unep.org/resourceefficiency/Policy/SCPPolicies/tabid/55539/Default.aspx

SWITCH-Asia projects funded by the European Union; Available at: http://www.switch-asia.eu/projects/

UNDP projects on environmental aspects related to SCP in India; Available at: http://www.in.undp.org/content/dam/india/docs/UNDP%20Fact%20Sheet%20-%20MEFCC.pdf

UNEP's Resource Efficiency Programme; Online at: http://www.unep.org/resourceefficiency/Home/Society/tabid/55529/Default.aspx

UNIDO projects on cleaner production topics; Available at: http://www.unido.org/en/where-we-work/asiaandthepacific/selected-projects.html

Additional information (if any):

This first-of-its-kind post graduate course on Sustainable Consumption and Production is being developed for young policy and decision makers as part of the SWITCH-Asia Regional Policy Support Component supported by UNEP and European Union.

Student responsibilities:

Attendance, feedback and discipline: As per university rules.

Course reviewers:

This course on Sustainable Consumption and Production (SCP), part of the MA Public Policy and Sustainable Development programme (M.A. PP&SD), was developed and reviewed in two consultation workshops on SCP Course Curriculum Development held at TERI University. The course reviewers present at the two workshops are as follows.

1st Consultation Workshop on SCP Course Curriculum Development, September 18, 2015

Dr. Shaleen Singhal, Head, Department of Policy Studies, TERI University
Ms. Sara Castro, Programme Officer, 10YFP and SWITCH-Asia, UNEP
Dr. Kaushik R. Bandyopadhyay, Associate Professor, Department of Business Sustainability, TERI University
Prof. Arabinda Mishra, Senior Social Scientist, International Centre for Integrated Mountain Development
Prof. Subhasis Ray, Xavier Institute of Management, Bhubaneswar
Prof. Nazmul Ahsan Kalimullah, Department of Public Administration, University of Dhaka

Mr. Rajan Gandhi, Mg. Trustee and CEO, Society in Action Group
Dr. Sanjeevan Bajaj, CEO, FICCI Quality Forum
Dr. R. Gopichandran, Director, Vigyan Prasar
Mr. Sanjay Kumar, Manager, Indian Railways
Dr. Nandan Nawn, Associate Professor, Department of Policy Studies, TERI University
Dr. Ritika Mahajan, Assistant Professor, Department of Business Sustainability, TERI University
Dr. Sapna Narula, Associate Professor, Department of Business Sustainability, TERI University
Ms. Shilpi Kapur, Fellow, The Energy and Resources Institute (TERI)
Prof. Chettiyappan Visvanathan, Dean (R&D), Asian Institute of Technology
Prof. Shrawan Acharya, Centre for the Study of Regional Development, Jawaharlal Nehru University
Ms. Sunita Singh, Director, Ministry of Environment and Forest, GoI
Prof. Lakshmi Raghupathy, Visiting Faculty, TERI University
Prof. C.K. Varshney, Visiting Faculty, TERI University
Mr. Uwe Becker, Senior Adviser, GIZ
Mr. Rajat Batra, CEO, STENUM Asia Sustainable Development Society
Dr. Suneel Pandey, Adjunct Faculty, Centre for Regulatory and Policy Research, TERI University
Dr. Chubamenla Jamir, Assistant Professor, Department of Natural Resources, TERI University
Dr. Suresh Jain, Head, Department of Natural Resources, TERI University
Ms. Minni Sastry, Associate Director, The Energy and Resources Institute (TERI)

2nd Consultation Workshop on SCP Course Curriculum Development, April 21, 2016

Dr. Shaleen Singhal, Head, Department of Policy Studies, TERI University
Ms. Sara Castro, Programme Officer, 10YFP and SWITCH-Asia, UNEP
Prof. Lakshmi Raghupathy, Visiting Faculty, TERI University
Dr. Zinaida Fadeeva, United Nations University, Institute for the Advanced Study of Sustainability
Mr. Gamini Senanayake, SWITCH-Asia SCP NPSC, Sri Lanka
Mr. Rajan Gandhi, Mg. Trustee and CEO, Society in Action Group
Dr. Sanjeevan Bajaj, CEO, FICCI Quality Forum
Dr. Ritika Mahajan, Assistant Professor, Department of Business Sustainability, TERI University
Ms. Shilpi Kapur, Fellow, The Energy and Resources Institute (TERI)
Mr. Rajat Batra, CEO, STENUM Asia Sustainable Development Society
Mr. Rajan Gandhi, Mg. Trustee and CEO, Society in Action Group
Prof. C.K. Varshney, Visiting Faculty, TERI University
Mr. Sanjay Kumar, Manager, Indian Railways
Ms. Neha Sami, Consultant, Academics & Research, Indian Institute for Human Settlements
Dr. Malini Balakrishnan, Adjunct Faculty, Department of Energy and Environment, TERI University
Mr. Rumi Aijaz, Senior Fellow, Observer Research Foundation