



# Full Syllabus



<b>Course Title</b>		
Environmental Policy and Sustainable Development		
<b>Lecturer</b>		
Valerie Brachya		
<b>Semester</b>		
Fall		
<b>Course requirements</b>		
<p><b>Attendance: All lectures</b></p> <p><b>Assignments:</b> brief case examples presented in class, preparation for an interactive session on environmental impact assessment and for a conflict simulation</p>		
<b>Final grade components</b>		
<p>20% for case presentation and participation in simulation</p> <p>80% a Final Paper due <b>Feb. 14</b>. Instructions will be distributed by Feb. 7.</p>		
<b>Course schedule</b>		
Class no. / Date	Lecture topic	Comments
Oct.27	Evolution of environmental policy and sustainable development	<ul style="list-style-type: none"> <li>a. Development within ecological and social boundaries</li> <li>b. From Stockholm, through Rio and Johannesburg to Copenhagen, to Rio+20, to the Paris agreement on climate change, to UN SDG's. Are we on the right roadmap?</li> <li>c. Sustainable production, sustainable development and sustainable consumption</li> </ul>
Nov.3	Mainstreaming sustainability policy into decision making and practice	<ul style="list-style-type: none"> <li>a. Principles and processes</li> <li>b. Sustainability strategies , policies and instruments</li> <li>c. Is greening the economy the road to sustainability</li> <li>d. Post Covid changes to policy making</li> </ul>
Nov.10	Environmental impact assessment of development projects	<ul style="list-style-type: none"> <li>a. EIA as a tool in environmental governance</li> <li>b. Identifying impacts and anticipating consequences</li> <li>c. Stakeholders and decision makers</li> <li>d. Future directions for EIA</li> </ul>
Nov.17 Double class between 08:30-11:45	Sustainable Cities	<ul style="list-style-type: none"> <li>a. What makes a city sustainable – international policy and experience</li> <li>b. The role of green infrastructure, green building and green neighborhoods</li> <li>c. Measurement and indicators of sustainable cities</li> </ul>
	Landscape and nature protection	<ul style="list-style-type: none"> <li>a. An ecosystem approach</li> <li>b. A landscape approach</li> <li>c. Management of land as space</li> </ul>



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		d. Conflicts between conservation, afforestation and agriculture
Nov.24	No Class	
Dec.1	Coastal Planning and Port Development Interactive session	a. Integrated coastal zone management and marine spatial planning b. Preparation of guidelines for an environmental impact assessment of a port development
Dec.8	Sustainability in extractive industries	a. Global trends in materials management and resource productivity b. Environmental impacts of extraction, mining and processing activities c. Guidelines for minimizing and managing impacts for quarry and mine reclamation
Dec.15	Sustainable Production and Consumption	a. Technological approaches - Eco efficiency and the circular economy b. Service approaches – changing the business model c. Sociological and behavioral approaches – changing lifestyles d. Post Covid lifestyles
Dec.22	Sustainable Transport	a. Accessibility versus mobility b. Incorporating environmental and social considerations in planning for interurban transportation - Example: Highway 6 in Israel c. Mobility as a System d. Incorporating environmental and social considerations in planning for urban transportation
Dec.29	Sustainable Energy	a. Sustainability implications of energy supply alternatives – are renewables the answer to sustainability? b. Energy supply side management c. Energy demand side management d. Energy transmission and distribution systems
Jan. 5	Sustainable Tourism	a. Impacts of tourist travel and infrastructures b. Finding a balance between generating income and protecting sensitive resources c. Green, eco and sustainable tourism
Jan. 12	Simulation of a planning committee considering a development proposal	The students will be allocated roles and participate in the simulation of a dispute concerning a development project
Jan. 19	Conflict resolution between developers and environmental organizations	a. Role of environmental organizations and civil society in environmental governance and development planning b. Stakeholder involvement in conflicts and the NIMBY syndrome c. How can we get to agreements?



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## Required course reading

### Understanding Sustainability

- \*Seminal papers for understanding sustainability
- \*Rockstrom J et al (2009) *Planetary Boundaries: Exploring the Safe Operating Space for Humanity* Ecology and Science
- \*Steffen et al (2015) *Planetary Boundaries: Guiding human development on a changing planet* Science vol 347
- \*Geels, FW, BK Sovacool, T Schwanen, and S Sorrell. "Sociotechnical transitions for deep decarbonisation," *Science* 357 (6357) (September 22, 2017), pp. 1242-1244.
- \* Raworth K (2012) *A safe and just space for humanity. Can we live within the doughnut?* Oxfam Discussion papers (later published in 2017 as *Doughnut Economics*)
- \*UN (2015) *Transforming our World. The 2030 agenda for sustainable development*
- \*Jackson T (2009) *Prosperity without Growth . Economics for a finite planet.* UK Sustainable Development Commission (for further reading, Jackson published *Post Growth* in 2021).
- \*O'Neill D W et al (2018) *A good life for all within planetary boundaries* Nature Sustainability 1 88-95
- Rees W and Wackernagel M 1996 *Our Ecological Footprint*
- IISD (2020) *The Precautionary Principle – Still Only One Earth*

## Optional course reading

### Sustainability and Development Policy

- UN 1992 *Agenda 21*
- UN 2015 *Sustainable Development Goals SDG's for 2030*
- OECD (2017 onwards) *How's Life*
- UNEP (2019) GEO Chapter 22 *Pathways towards sustainable development*
- UNEP (2021) *Making Peace with Nature*
- UNEP (2022) *Practice for Sustainable Infrastructures 2<sup>nd</sup> ed.*
- European Environment Agency (2020) *The European Environment – State and Outlook (SOER)* Executive Summary and chapters 15 and 16
- UK Department of Housing, Communities and Local Government (2021) *National Planning Policy Framework*
- Fanning A et al (2022) *The Social Shortfall and Ecological Overshoot of Nations*, Nature Sustainability
- Sachs J et al (2019) *Six Transformations to achieve the Sustainable Development Goals* Nature Sustainability
- Brachya V (2013) *Towards Sustainable Development – mainstreaming environment in Israel* in Orenstein, Tal and Miller *Between Ruin and Restoration: an environmental history of Israel* University of Pittsburgh press

### Environmental Impact Assessment:

- Eccleston and March (2010, 2017) *Global Environmental Policy* Chapter 3 Environmental Impact Assessment
- UNEP (2015) *An introduction to environmental assessment*
- International Association for Impact Assessment IAIA website: *What is impact assessment*
- Glasson J, R. and Therivel (2019) *Introduction to Environmental Impact Assessment 5<sup>th</sup> edition* Routledge (earlier edition available online)
- Loomis et al (2018) *Evaluating EIA systems' effectiveness: A state of the art* EIA Review 68 20-37
- IFC *Environmental Health and Safety Guidelines*
- The Equator principles* (2019)



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## **Urban:**

UN Habitat (2016) *A New Urban Agenda*  
UNEP (2018) Intergovernmental Resources Panel, *The weight of cities: resource requirements of future urbanization (summary for policy makers)*  
RTPI (2021) *Urban Planning after Covid 19*  
IPCC (2021) Chapter 8 *Urban systems and other settlements* – section 8.4 Urban Mitigation options  
Arcadis (2016) *Sustainable Cities index*

## **Open Space and Ecosystems:**

IUCN (2015) *Protected areas: governance and management* chapter 2  
IPBES (2019) *Global assessment report on biodiversity and ecosystem services* – summary for policy makers

## **Transportation:**

UN Expert Panel (2016) *Mobilizing sustainable transport for development*  
LSE (2016) *Towards New Urban Mobility*  
Institute for sustainable infrastructure (2018) V3 manual  
UNECE (2020) *Mobility Management*  
IPCC (2021) chapter 10 Transport Section 10.2 *Systemic changes in the transport sector*

## **Extractive Industry**

OECD (2019) *Global Material Resources Outlook 2060*  
UNDP (2018) *Managing mining for sustainable development*  
Ali Saleem (2017) *Mineral Supply for Sustainable Development requires resource governance* Nature July

## **Energy**

IEA (2021) *World Energy Outlook*  
UNEP (2016) *Green Energy Choices*  
IEA (2020) WEO Outlook special report *Sustainable Recovery*

## **Tourism**

Bramwell B et al (2016) *Twenty five years of sustainable tourism* Journal of sustainable tourism vol 25  
One Planet (2020) *One Planet Vision for a Responsible Recovery of the Tourism Sector*  
UNWTO (2020) *A responsible recovery of the tourism sector*

## **Marine and Coastal:**

UNEP Mediterranean Action Plan (2009) *Protocol on Integrated Coastal Zone Management* articles 5-14  
UNESCO (2010) *Marine Spatial Planning*

## **Conflict Resolution**

Michael L. Elliott and Sanda Kaufman (2016) *Enhancing Environmental Quality and Sustainability through Negotiation and Conflict Management: Research into Systems, Dynamics, and Practices* Negotiation and conflict management research  
Clarke t and Peterson (2016) *Environmental Conflict Management*. Sage  
Furst B (2014) *Environmental Campaigns in Israel and their spatial impacts* Advances in Sustainability and Environmental Justice 15



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## Sustainable consumption

UNEP (2016) *A framework for shaping sustainable lifestyles - determinants and strategies*

Bengtsson M et al (2018) *Transforming systems of consumption and production for achieving sustainable development goals: moving beyond efficiency*. Sustainable Science

Alfredson Eva et al (2018) Policy brief: *why the Paris agreement requires reduced overall consumption and production* Sustainability Science Practice and Policy vol 14

OECD (2017) *Tackling environmental problems with the help of behavioural insights*

Southerton D and Welch D (2018) *Transitions for Sustainable Consumption after the Paris Agreement*

Stanley Foundation Policy Analysis Brief

Friends of the Earth (2018) *Sufficiency*

Brown, H.S. and Vergragt, P.J. (2016). *From Consumerism to Wellbeing: Toward a Cultural Transition*. Journal of Cleaner Production.

Echegaray F, Brachya V, Vergragt P and Zhang L (2021) *Sustainable Lifestyles after Covid-19* Routledge

Hot or Cool (2021) *1.5 Degree Lifestyles – a fair consumption space for all*

IPCC (2021) chapter 5 Demand Services and social aspects of mitigation Section 5.4 *Transition towards high wellbeing and low carbon demand societies*

## Comments

\*Lectures listed by date are subject to change throughout the semester