

STRENGTHENING THE CAPACITY FOR ENVIRONMENTAL AND CLIMATE CHANGE LAW IN ASIA AND THE PACIFIC

Colombo, Sri Lanka, 28th May – 1st June, 2018

SESSION SEVEN: NATURAL RESOURCES
MANAGEMENT LAW



Presented by Professor Rob Fowler, Law School, University of South Australia



LEARNING OUTCOMES OF SESSION 7

Session Topic

- Understanding the legal concepts of ownership and allocation of natural resources
- Understanding the shift from resource exploitation to sustainable use of natural resources
- Understanding the role of resource-specific legislative schemes and their relationship with other environmental laws

Teaching Methodologies

- Small-group structured discussion
- Role-play: explanation, allocation of roles & preparations

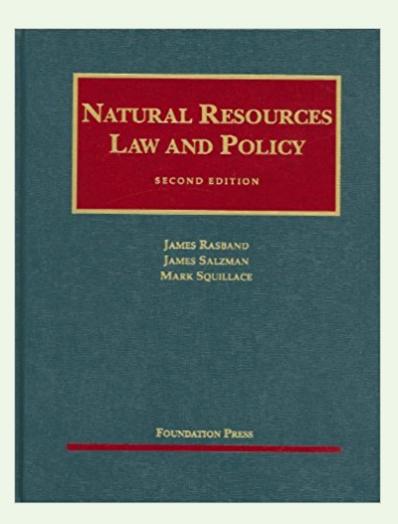


RELEVANT SDGs

- Goal 2: End hunger, achieve food security and improved nutrition and promote sustainable agriculture
- Goal 6: Ensure availability and sustainable management of water and sanitation for all
- Goal 14: Conserve and sustainably use the oceans, seas and marine resources for sustainable development
- Goal 15: Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and biodiversity loss
- ALSO:
 - Target 12.2: By 2030, achieve the sustainable management and efficient use of natural resources.

(from Goal 12: Responsible consumption and production)

INTRODUCTION TO NATURAL RESOURCES LAW



- Natural resources law is often taught as a separate and distinct subject from environmental law
- It can also be taught through more specific courses (e.g., land management law, water resources law, forestry law mining law, oil and gas law, fisheries law, etc.)



INTRODUCTION TO NATURAL RESOURCES LAW

- In teaching this aspect of environmental law, it is important for students to learn how this large group of laws governs the management and conservation of natural resources from an environmental perspective (rather than a commercial perspective);
- TTT participants may want to consider the possibility that aspects of natural resources law can be incorporated within their own environmental law course





THE SCOPE OF NATURAL RESOURCES LAWS

- Most countries have developed specific laws providing for the grant of rights to own, use or extract various types of natural resources, in particular:
 - Land
 - Water
 - Forests
 - Minerals
 - Petroleum (oil and gas including, recently, "unconventional" gas)
 - Fisheries
 - In addition, specific laws governing land management/ land degradation have also been widely adopted (reflected at the international level in the UN Convention to Combation)



THE LEGAL BASIS OF NATURAL RESOURCES LAWS

- The legal basis for the operation of most natural resources laws is that the "dominant" title (or, in other words, the ownership) of such resources belongs to the government;
- The relevant level of government that enjoys this title can vary from one country to another:
 - In countries with a **federal** constitutional system (e.g., USA, Canada and Australia) it is often the state/provincial governments that own natural resources such as land, forests and minerals, whilst the national (federal) governments own offshore resources (oil and gas/fisheries);
 - In countries with a unitary constitutional system, either national or regional governments may own natural resources, depending upon their constitutional arrangements.
 - Note also the varied recognition of indigenous land and other resources rights, where colonisation has occurred in the past

THE PURPOSE OF NATURAL RESOURCES LAWS

Surely we have a responsibility to leave for future generations a planet that is healthy and habitable by all species

Sir David Attenborough philharding.net/quotes-corner/

- resources laws in most countries was to provide for an ordered process for the *allocation of rights to natural resources* (resource "tenures") so as to avoid conflicts between competing interests;
- However, modern versions of these laws that have been developed over the last 30-40 years include provisions that require the administering authorities to consider the environmental impacts of resource utilization activities when granting rights to natural resources (cf., "sustainable use").



THE MODERN PURPOSE OF NATURAL RESOURCES LAWS

- To ensure the balancing of the perceived benefits arising from the utilization of particular types of natural resources with the need to avoid significant environmental impacts;
- In addition, to ensure that renewable resources such as water, fisheries, wildlife and forests are "sustainably" used or managed so as to avoid over-extraction or excessive depletion;
- This balancing process generally does not result in refusals to grant rights to natural resources but rather in the imposition of environmental safeguards through conditions attached to the relevant grant of rights (tenure)

REGULATORY MECHANISMS UNDER NATURAL RESOURCES LAWS

PUBLIC NOTICE FOR MINING LEASE

AND ENVIRONMENTAL AUTHORITY (MINING LEASE) Mineral Resources Act 1989 - Section 252A (superseded*) Environmental Protection Act 1994 - Section 152

Proposed Greenvale Project - Mining Lease Application Number 10368 and term of 25 years - Charters Towers Mining District

is advised that application has been made for a mining lease and e the provisions of special management of the mining purpose of Cobatt One, Notice Ose, Becandium Waste Rock/Rigerap, Uning Quarters/Camp, Processing Plant, Stock Pile Ose; Overburden, Stalings/Betting Den, Water management, Worshop/Machinery/Storage on the lobosing land parcels within the Charless Fowers Replanal Council to 591 on \$9 222780 Lands Lesse, Rood Reserved.

he application is located at approximately 4.9 kilometres West, North West of Greenv

re applicant(s) are: Sconi Mining Operations Pty Ltd (100%)

te and time Applications Lodged: 20 April 2012 at 10.25AM

Mining activities to be carried out include: Cobolt One, Nickel One, Scandium, Waste Rock, Riprap, Inving quarters/camp, Processing plant, Stock pile one/overburden, tallings/setflin dam, Water management, Workshop/Machinery/Storage.

e application documents consist of the Application for Mining Lease and copies of or extracts from e application documents, and the endorsed Mining Lease Public Notice detailing the location an ption of the land applied for (including surface area and access), may be downloaded fro

page, www.busness.gd.gbv.au/industries/mining-energy-water/resources/public-nerces-tenders or may be inspected at the Department of Natural Resources. Mines and Energy office - Level 9 445 Flinders Envent Townseller, G.Q.D. 4810, or may be obtained by contacting the local mines sessesment hub on (07) 4447 9230.

Environmental authority documents

The application documents for the proposal consist of the following: application for an environmental authority (mining activities) for a level 1 mining project.

sies of, or extracts from, the application documents may be viewed at the Department vironment and Science website http://www.ehp.ghf.gex.au/management/non-min ment-eaapplications.html or may be obtained by contacting Permit and Licence Manageme hone on 1300 130 372 or by email on palm@des.qld.gov.au.

Making a properly made objection/submission

is advised that any person/entitymaymake an objection to the grant of the mining lease, and submission about the application for the environmental authority. The objection period, durishich objections/submissions can be glain, certifules on 25 May 2018 at 4.3ppm (AEST).

erly made objection and/or submission must be received on or before 4.30pm (AEST) on the resion period. It must also be made in writing, addressed

soperly made objection and/or submission must be received day of the objection/submission period. It must also be Mineral Assessment Hub Department of Natural Resources, Mines and Energy PO Bes 1782 TOWNSYSLE OLD 4619

Mineralhub@dnrme.gld.gov.au

reperly made objection is one that states the grounds of the objection and the facts and circumstance of on in support of the grounds; to signed and dated by each person/entity (i.e. signatory) making the scions; states the name and address of each signatory.

landing objections to the mining lease application may contact the local mines assessment hub. 7) 4447 9230 and etisin the approved objection form or obtain the approved objection form (MRN-X or the department's website. https://www.bushinss.old.gov.au/industries/mining-perogyweis es/applications-compliance/forms-fees.

ons for the Environmental Authority application:

- verly made submission must meet all of the following requirements:
- be written or made electronically state the name and address of each submitter
- be made to the administering authority stated above be received on or before the last day of the submission period
- state the grounds of the submission and the facts and circumstances relied on in support of t

tending submitters may contact the Department of Environment and Science, Mineral Bus ontro on (07) 4222 5352 to obtain a submission form or obtain a copy from the departm

www.des.qld.gov.au A copy of the objection must also be served upon the applicant/s on or before e last day of the objection period at the following address:

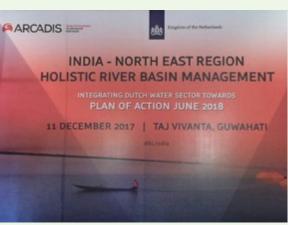
Sconi Mining Operations Pty Ltd C/- Hetherington Exploration & Mining Title Services (QLD) Pty Ltd PO Box 49, Spring NII LPO Spring HII QLD 4004

s notice is issued under transitional provisions of the Mineral Resources Act section 829 - "Certificates

- The principal mechanism for the allocation of rights to utilize natural resources is the grant of various forms of resource "tenure" (i.e., a legal entitlement to use a particular resource);
- Tenures may range from a full transfer of ownership of the relevant natural resource from the government to other parties (e.g., for land, timber or minerals/gas) to more limited forms of tenure such as **leases**, **licences or permits** (e.g., to take water; to use land for particular purposes such as the grazing of sheep or cattle; or to operate as a commercial fisher);
- There may also be a requirement to make **payments** to the relevant government authority in return for the grant of resource tenures (e.g., mining and oil/gas "royalties")

MANAGEMENT MECHANISMS UNDER NATURAL RESOURCES LAWS

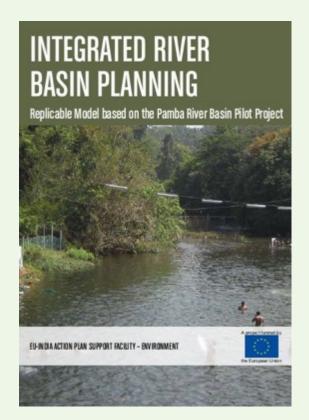




- It is common for natural resources laws in many countries now to require resource management plans to be developed
- Purpose of these plans: to provide policy guidance to administering authorities with respect to their decisions on the allocation of tenure rights (e.g., water allocation plans, fisheries management plans and forests management plans)
- Plans provide a mechanism for pursuing the objective of achieving the sustainable use of natural resources, but their adoption and implementation can be contentious (e.g., re water allocation)

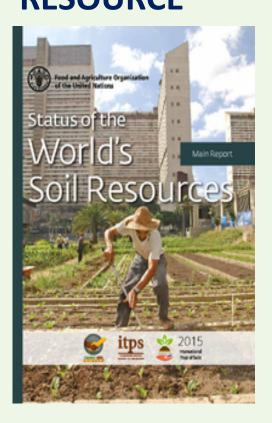
INTEGRATED NATURAL RESOURCES MANAGEMENT

- There is a general trend towards providing for integrated natural resources management in order to better coordinate the operation of previously separate and distinct natural resources management laws;
- In particular, laws have been adopted in a growing number of countries to enable the coordinated management of land and water resources within a particular region, such as a river basin;
- These laws may be accompanied by administrative arrangements for the establishment of regional natural resources management authorities to develop resource management plans and administer the granting of resources tenures within the region





LAWS TO PROTECT LAND AS A RESOURCE



- Land degradation is a serious problem in many countries, carrying with it a huge economic cost in terms of reduced agricultural production for food
- 2018 study estimates global economy will lose US\$23 trillion by 2050 through land degradation (see https://www.unccd.int/actions/ldn-target-setting-programme/ldn-country-profiles)
- see also 2015 Status of the World's Soils
 Report (available at http://www.fao.org/documents/card/en/c/c6814873-efc3-41db-b7d3-2081a10ede50/)



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- In many countries, additional laws have been adopted to provide specifically for the **protection of the land resource**, for example:
 - Soil conservation legislation to protect land from degradation through poor agricultural practices;
 - Laws to prevent excessive clearance of natural vegetation by farmers;
 - Special legislation to enable the control of "invasive" species of plants and animals; and
 - Laws to provide for the clean-up of soils and groundwater affected by

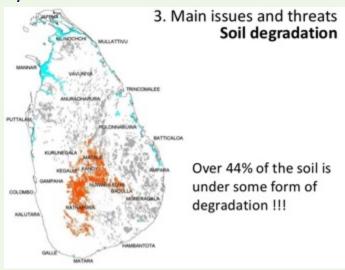
LAWS TO PROTECT LAND AS A RESOURCE

- Large areas in India suffer from various types and degrees of soil erosion:
 - Around 93 Mha land is affected due to water erosion and 11 Mha due to wind erosion.
 - About 6.74 Mha is under salt affected soils and
 - 4.36 Mha forest area is under accelerated erosion due to shifting cultivation.

SORRY STATE Land degraded by water erosion		
Uttar Pradesh	2,38,566	54
Madhya Pradesh	3,08,641	44
Kamataka	1,91,791	41
Jharkhand	79,714	40
Andhra Pradesh	2,75,045	32
Meghalaya	22,429	31
Assam	78,438	30
Maharashtra Source: National bureau of soil:	3,07,713 survey and Landuse	29 Planning (ICA)
*Total geographical area in l	kilometre square	

 "One third of the land area of Sri Lanka faces soil erosion"

Statement by Mr. Patchi Champka Ranawake, Sri Lanka Minister of Power and Energy, 27 July 2015.



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 - Laws to prevent excessive clearance of natural vegetation by farmers;
 - Legislation to enable the control of "invasive" species of plants and animals; and
 - Laws to provide for the clean-up of soils and groundwater affected by chemical contamination (see roleplay exercise)



The Rajasthan Soil and Water Conservation Act, 1964

This document is available at ielro.org/content/e6406.pdf

For further information, visit www.ielrc.org

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TRANSBOUNDARY RESOURCE MANAGEMENT ISSUES

- Transboundary conflicts may arise in relation to natural resource management, especially where river systems extend across multiple jurisdictions
- India shares a number of transboundary rivers with countries like Pakistan, China, Nepal, Bhutan and Bangladesh.
- India has water-sharing treaties with these countries but conflicts have not been resolved due to several gaps and omissions in the clauses of the treaties.
- Almost all the bilateral water treaties between India and other countries
 were signed during 1960s and 70s. They did not foresee the emergence of
 water scarcity challenges in the light of climate change and more variable
 rainfall patterns.
- See "Water Sharing: India's Interstate and Transboundary Dynamics", a http://offprint.in/en/articles/water-sharing-india-s-inter-state-and-transboundary-dynamics



TRANSBOUNDARY RESOURCE MANAGEMENT ISSUES

- Trans-boundary pollution impacts may also arise from resource extraction or other development activities, for example:
 - Air pollution from the ongoing burning of forests in Indonesia
 - Marine pollution and damage to fisheries from oil well spill accidents (e.g., the Montara oil spill in the Timor Sea in 2009);
 - Contested access to marine fisheries (see India-Sri Lanka fisheries dispute - case study in Session 13)
 - Sethusamundram canal project (- case study in Session 13





RELATIONSHIP BETWEEN NATURAL RESOURCES LAWS & OTHER TYPES OF ENVIRONMENTAL LAWS

- Other types of environmental laws may be applicable to projects that involve the use of natural resources, for example:
 - Spatial planning and environmental impact assessment procedures in relation to new resources projects, e.g., mining or forestry; or
 - Environmental protection (pollution control) measures in relation to new mining, oil and gas projects;
- However, natural resources laws often exclude the application of other environmental laws to activities that they cover.
- This reflects a political/economic prioritising of resource development over environmental and conservation considerations





SUMMARY

- NRM laws constitute a distinct and substantial component of environmental law
- NRM law may be taught as a separate subject (or specific subjects, e.g., water law, forestry law, mining law etc.), but it is also possible to include aspects of NRM law in a general course on environmental law
- The critical focus in teaching NRM law must be to examine how resource conservation and sustainable use objectives are accomplished
- For many countries in the Asian region, including in South Asia, there is also a trans-boundary perspective that deserves particular attention (and may involve the application of international/regional environmental law)

