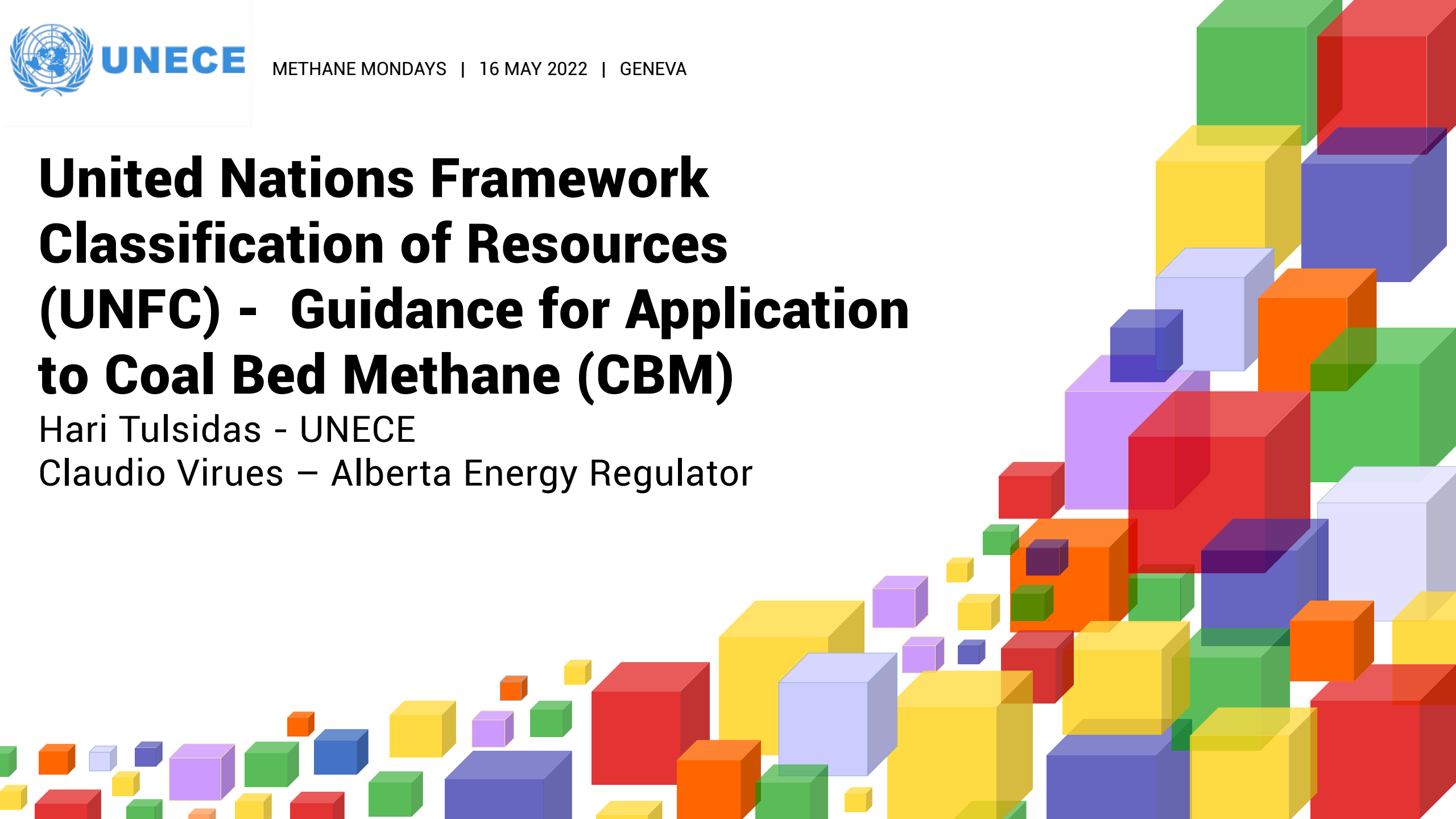


United Nations Framework Classification of Resources (UNFC) - Guidance for Application to Coal Bed Methane (CBM)

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Objectives

Bird's eye view of:

1. Integrated and sustainable management of resources
2. UNFC and UNRMS
3. Applications to CBM.

1. The 2030 Agenda



By 2030, achieve sustainable management and efficient use of natural resources

21st Century issues

Resource production: “drain industry” that “extracts” wealth but leaves behind social and environmental problems.



Exponentially increasing material footprint



Resource depletion



Carbon footprint



Water use



Mounting waste issues



Environmental issues



Diminishing social acceptability

A New Geo vision to support ...



2. United Nations Framework Classification for Resources (UNFC)



- Applicable across resources and countries
- Includes environmental, social, and economic dimensions

What is UNRMS?



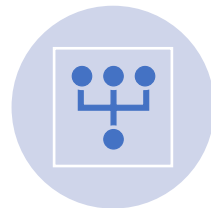
Framework for sustainable resource produced and use.



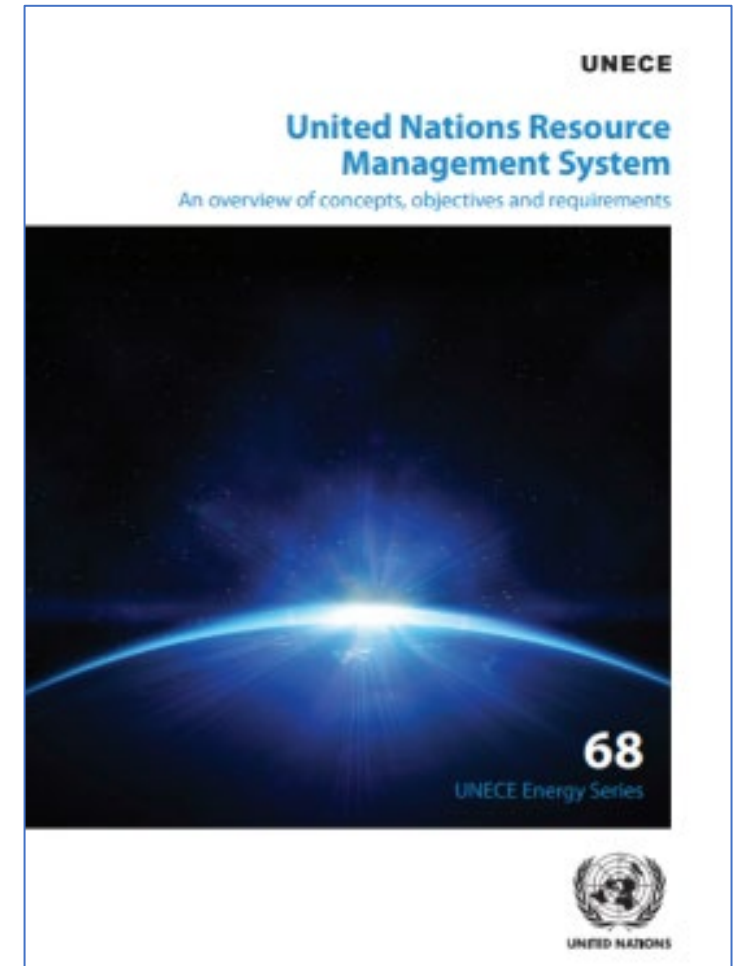
Meets specific governmental requirements for supporting and mediating supply- and value-chains of natural resources



For integrated, sustainable and adaptive development of resources.



Includes principles-based **tool-kit** (in progress) so could serve different needs of stakeholders.

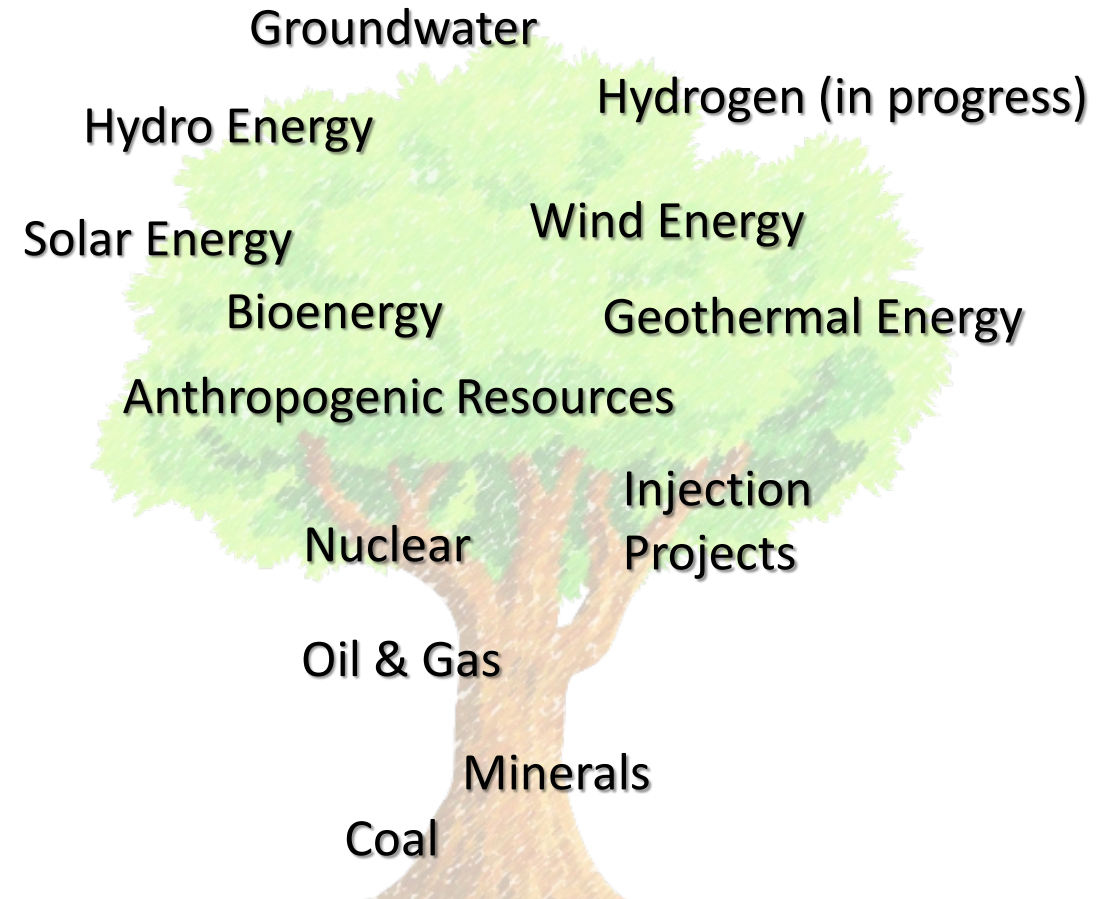


Comparisons across projects not only in terms of resources, but also other indicators, e.g. timing and profile.

Designed for integrated resource management

UNFC and UNRMS

- Align to the 2030 Agenda
- Improve financial resilience through business process innovation
- Derive good social, environmental and economic outcomes
- Social contract on natural resources
- Integrated resource management approach



Resources are classified and managed under a single system

UNFC and ECOSOC

Call for global application

The Economic and Social Council (ECOSOC) is at the heart of the United Nations system to advance the three dimensions of sustainable development – economic, social and environmental.

Member States of the United Nations, international organizations and regional commissions to consider taking appropriate measures for ensuring worldwide application of the Framework Classification.

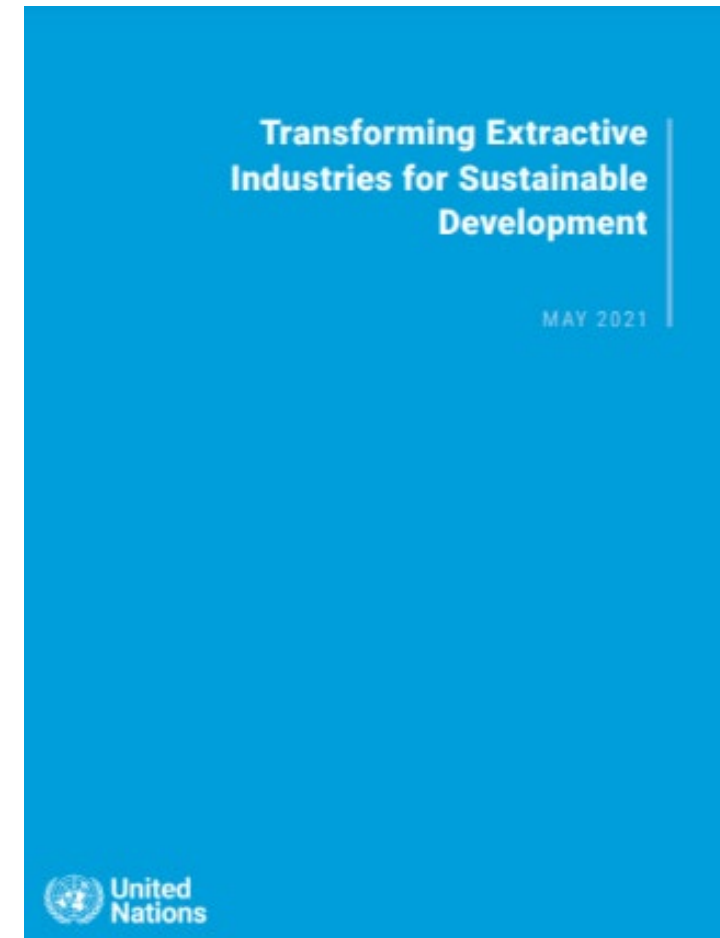


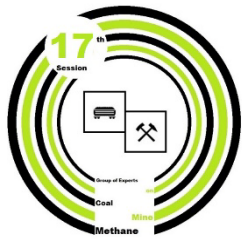
ECOSOC
United Nations Economic
and Social Council



UNEP

15. Implement a shared principles-based, integrated, sustainable resource management framework using tools such as the existing United Nations Framework Classification for Resources (UNFC) and the United Nations Resource Management System (UNRMS) under development.





3. UNFC Guidance for Application to CBM

Classification of CBM

UNFC classifies CBM projects based on three sets of basic categories:

- The **E** Category designates the degree of favorability of environmental-socio-economic conditions in establishing the viability of the project
- The **F** Category designates the maturity of technology, studies and commitments necessary to implement the project.
- The **G** Category designates the degree of confidence in the estimate of the quantities of products from the project.

CBM Assessment using UNFC

E-axis

Viability Considerations

Cash-Flow Evaluation

Economic Criteria

Future Net Revenue

Economic Limit

Resources Entitlement and Recognition

Royalty

Production-Sharing Contract

Social Criteria

Environmental Criteria

F-Axis

Consideration of Risk

Viability Assessment

Technology Feasibility

Development Plan Status

Project maturity subcategories

Prospective Projects

CBM Assessment using UNFC

G-axis

General overview & principles

Estimation Procedures

Analytical procedures

Volumetric analysis

Analogues

Performance-based Estimates

Resources Assessment Methods

Deterministic method

Probabilistic method:

Aggregation



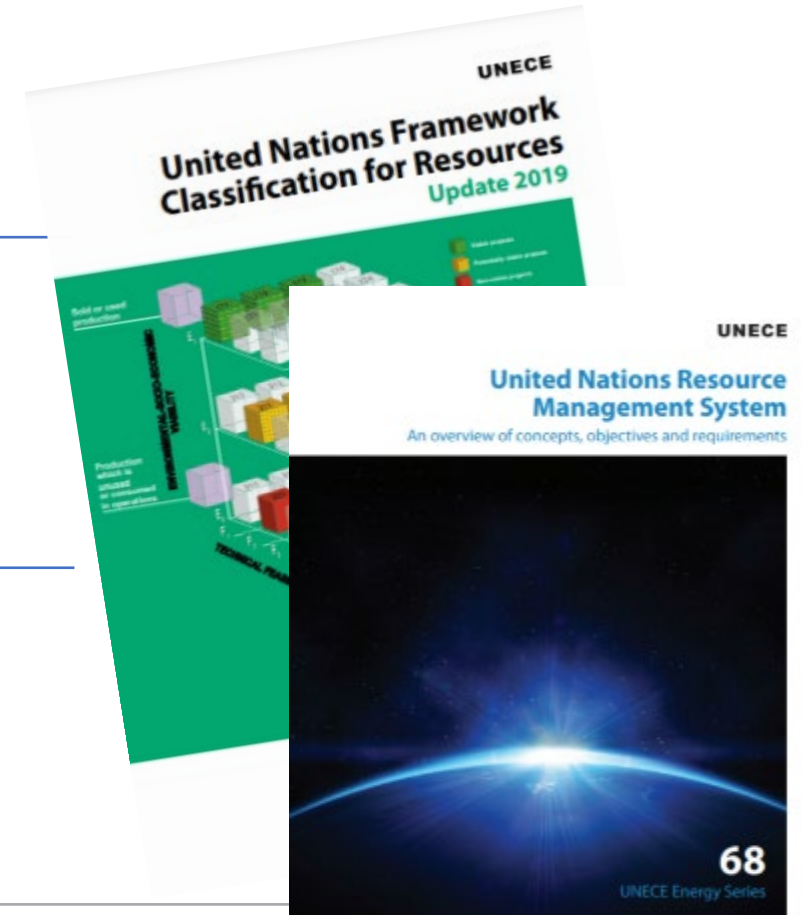
UNFC & UNRMS Toolkit

Build Forward Better, Manage Sustainably

Integrated and sustainable management of natural resources is critical to meeting universal needs.

Resources must be managed as a **public good** to achieve key SDGs.

UNFC and UMRMS provide the right information and tools to **manage natural resources**.



UNECE



UNITED NATIONS

To Summarize

1. Alignment to Global Goals for de-risking investments, gaining public acceptability
2. UNFC based information focus on social, environmental and economic aspects. UNRMS based management aligns with the global goals.
3. UNFC CBM guidelines can frame coal bed methane in the developmental context.

Thank you!

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