

UNFC – background and historical evolution

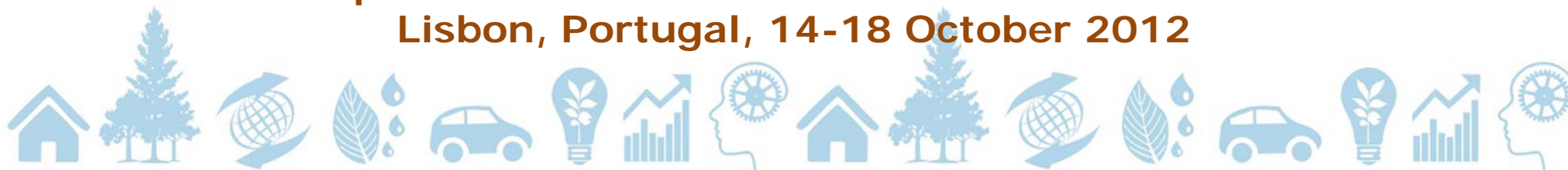
Charlotte GRIFFITHS

United Nations Economic Commission for Europe

IAEA-CYTED-UNECE Workshop

"Recent developments in evaluation of uranium and thorium resources"

Lisbon, Portugal, 14-18 October 2012





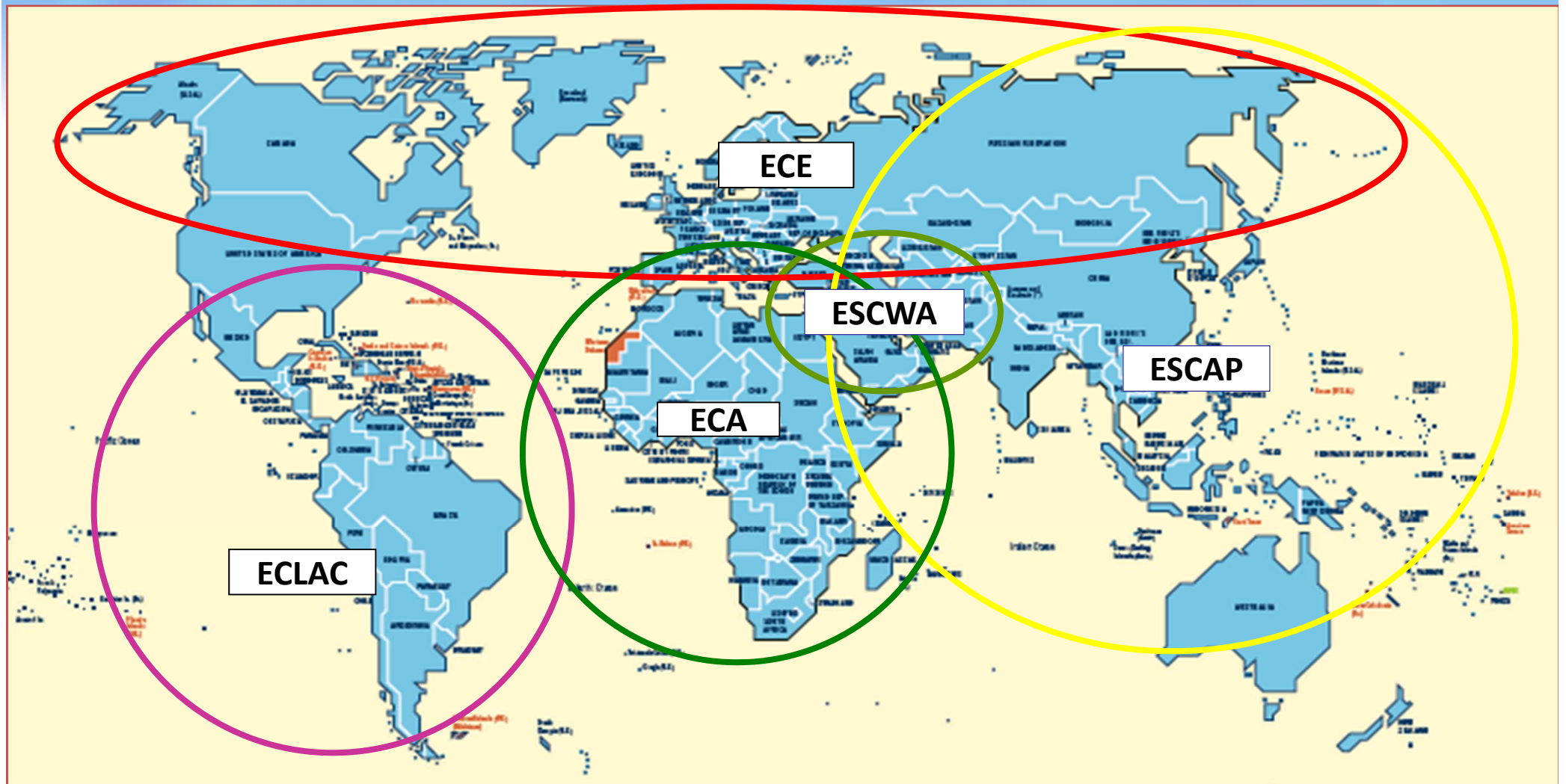
Content

- **UN Economic Commision for Europe (UNECE)**
- **Why UN is involved in resource classification**
- **History/development of UNFC**
- **Mandate - ECOSOC Decision 2004/233**
- **Expert Group on Resource Classification**



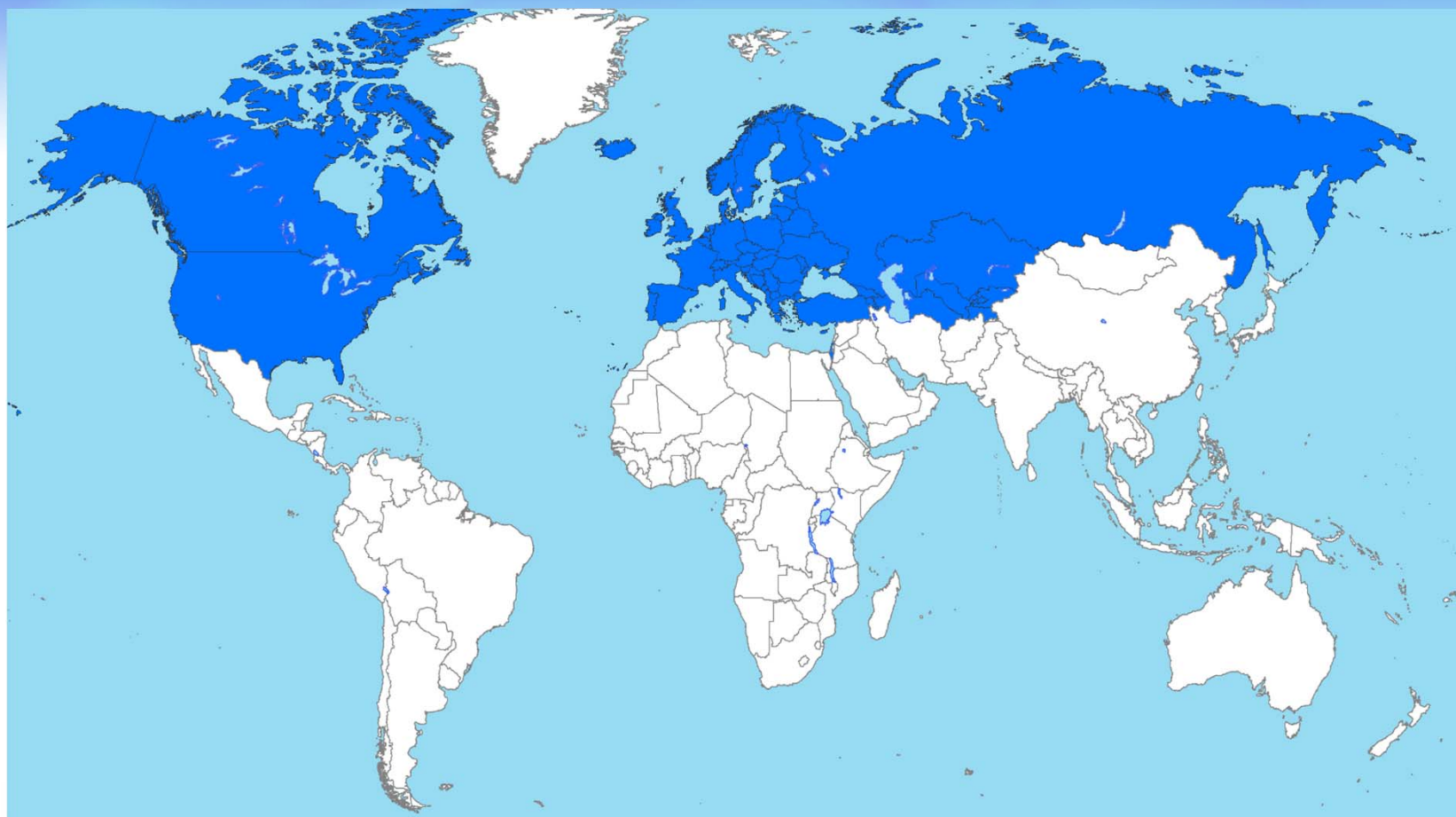


UN regions ...





UNECE - 56 member States





Role of UNECE

- Forum for discussions on economic issues and cooperation, focusing on greater regional integration, promotion of sustainable development & the green economy
- Clean air and sustainable energy development – through safer transport and trade facilitation – to sustainable housing & management of forests
- Facilitate cooperation, information sharing, and joint action among member States
- Conventions, regulations, norms standards, and technical assistance
- Regional focus but produce “global” public goods and services
- Provide regional contributions to UN world conferences and facilitate regional follow-up





Where does the Expert Group fit in the UN system

United Nations

General Assembly, Security Council, International Court of Justice, Secretariat

Economic and Social Council (ECOSOC)

UN Regional Commissions

UN Economic Commission for Europe (UNECE)

Committee on Sustainable Energy

Expert Group on Resource Classification (EGRC)

Intergovernmental body

Intergovernmental body

Advisory body





UNFC

- **United Nations Framework Classification for Fossil Energy and Mineral Reserves and Resources 2009**

.... or **UNFC** for short

- **Why is the United Nations involved in resource classification?**





Why the United Nations?



- Sustainable energy development
- UNECE provides a regional forum for Governments to develop practical instruments in the form of conventions, regulations and standards
- Neutral platform, all stakeholders involved
- Open and transparent process
- Convening power – no comparable forum exists
- UNFC is a voluntary system, not mandated by UN
- UNFC is a global project (ECOSOC Decision 2004/233)





UNFC and ECOSOC

ECOSOC Decision 2004/233

"At its 42nd plenary meeting, on 16 July 2004, the Economic and Social Council, recalling its decision 1997/226 of 18 July 1997, welcomed the endorsement by the Economic Commission for Europe of the United Nations Framework Classification for Fossil Energy and Mineral Resources and decides to invite the **Member States of the United Nations, international organizations and regional commissions** to consider taking **appropriate measures for ensuring worldwide application of the Framework Classification**. The Council notes that this new classification for fossil energy and mineral resources, which now includes energy commodities (for example, natural gas, oil and uranium), is an extension of the earlier framework developed for solid fuels and mineral commodities, on which the Council took similar action in 1997 upon endorsement and recommendation by the Economic Commission for Europe."





Development of UNFC

1992

- Started development of system

1997

- UNFC for solid fuels and mineral commodities published

2004

- UNFC extended to cover oil, natural gas and uranium





Development of UNFC *continued*

2007-
2008

- Mapping, revision, simplification of UNFC-2004, issued for public comment

2009

- UNFC 2009 approved, published in 2010

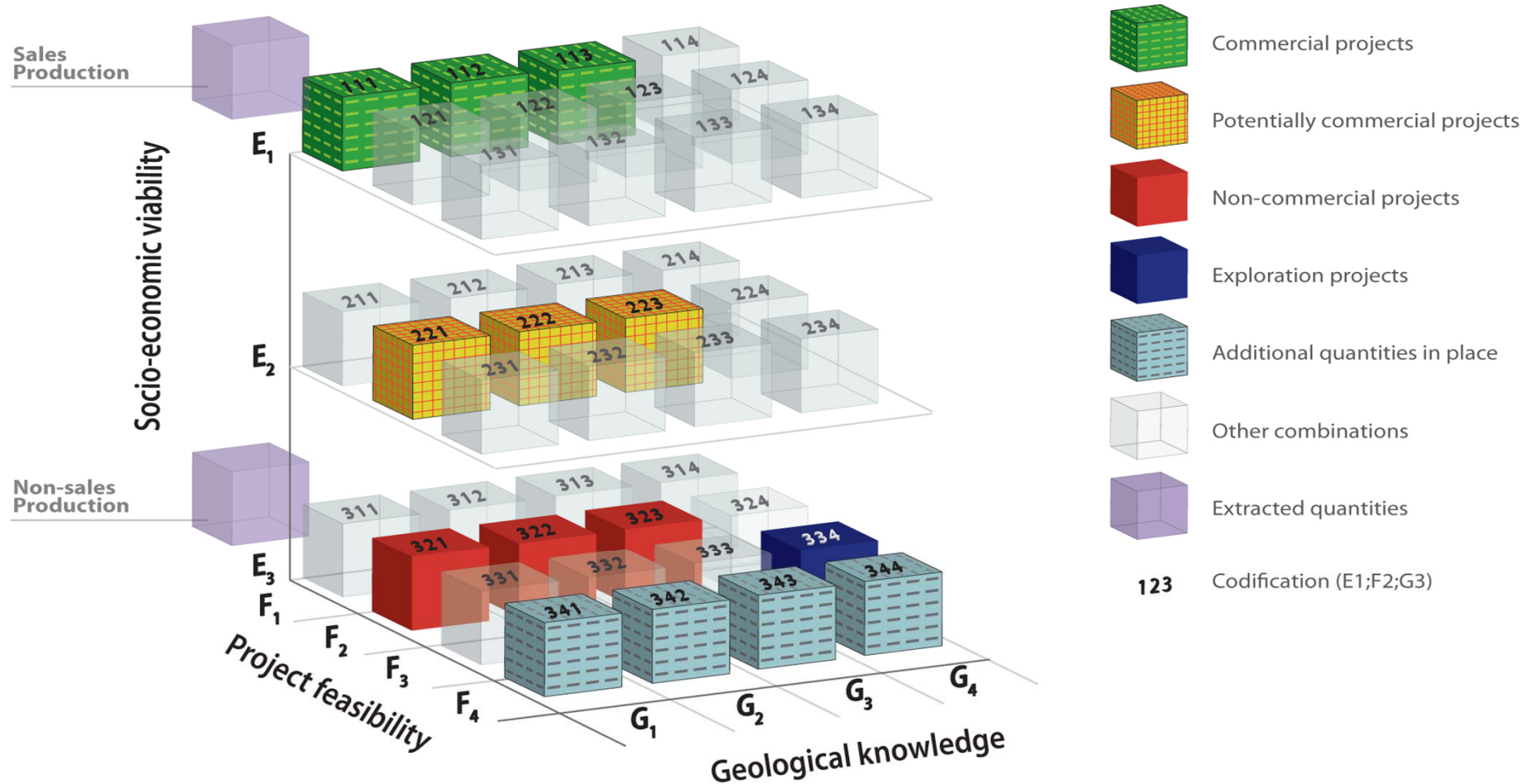
2010 -
current

- Development of UNFC specifications

- October 2012 – Draft specifications to be issued for public comment




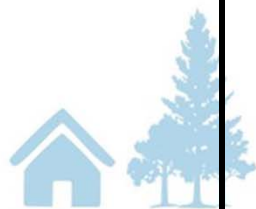
UNFC 2009 – 3 criteria system





UNFC ... easily documented in 2D format

	Extracted	Sales Production			
		Non-Sales Production			
		Class	Categories		
			E	F	G
	Future recovery by commercial development projects or mining operations	Commercial Projects	1	1	1, 2, 3
	Potential future recovery by contingent development projects or mining operations	Potentially Commercial Projects	2 ^e	2	1, 2, 3
		Non-Commercial Projects	3	2	1, 2, 3
	Additional quantities in place associated with known deposits		3	4	1, 2, 3
	Potential future recovery by successful exploration activities	Exploration Projects	3	3	4
	Additional quantities in place associated with potential deposits		3	4	4





UNFC stakeholders

UNFC designed to serve, to the extent possible, needs of four key stakeholders:

- Creators of international energy and mineral studies, to facilitate formulation of consistent and far-sighted policies
- Governments to manage their resources for security and efficiency
- Industry to provide data and information necessary to deploy technology, management and finance in order to serve their host countries, shareholders and stakeholders
- Financial community to provide information necessary to allocate capital appropriately so reducing costs





Expert Group on Resource Classification

- Membership is open to all stakeholders
 - *Annual meeting in Geneva (April or May)*
- Close collaboration with SPE (oil & gas) and CRIRSCO (solid minerals) to achieve alignment and develop specifications
- Close cooperation with IAEA on nuclear fuel resources
- Application of UNFC to injection projects?
- Technical Advisory Group
- Potential for application to renewable energy resources
- Global constituency representing all users of resource information
 - UNECE and non-UNECE Governments
 - international organizations
 - business community
 - professional societies and associations
 - financial sector including standard setters
 - individual experts





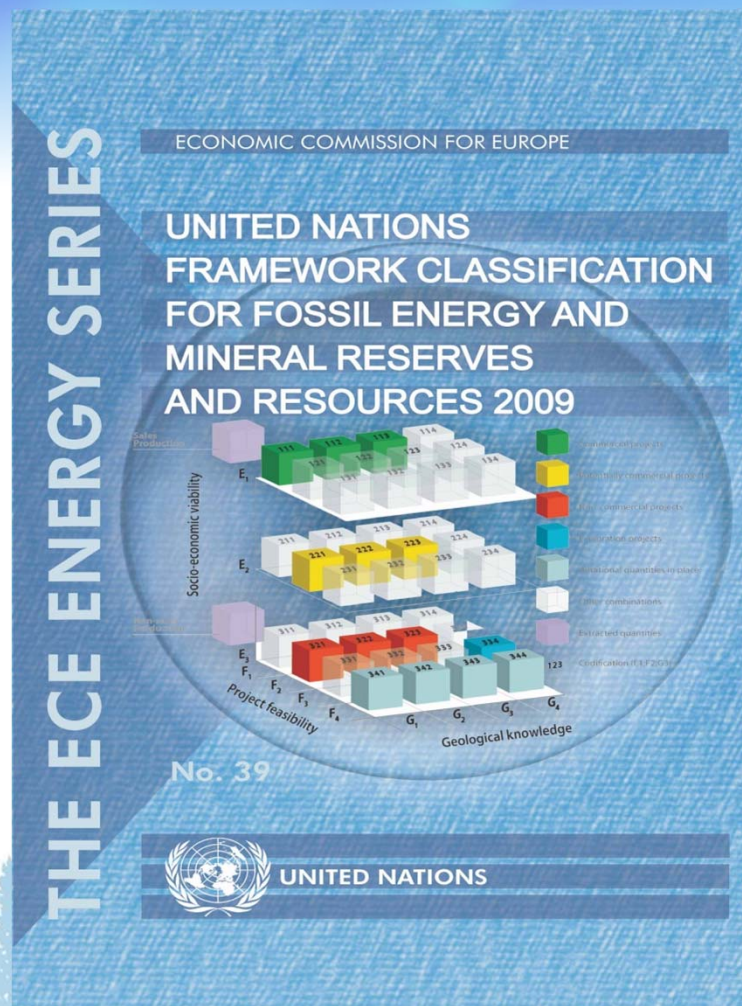
Expert Group Bureau

- ▶ Bureau works on behalf of the EGRC between meetings
- ▶ Unprecedented level of co-operation facilitated by UNECE, providing for convergence of PRMS (petroleum) and CRIRSCO family of codes (minerals) (and other systems) under a UNFC umbrella
- ▶ EGRC Bureau comprises representatives from:
 - CRIRSCO ■ SPE ■ SPEE ■ IAEA ■ CCOP ■ IEA ■ USGS
 - Turkish Coal Enterprises ■ Geoscience Australia
 - Norwegian Petroleum Directorate ■ State Commission on Mineral Reserves (Russian Federation) ■ financial sector (Alberta Securities Commission, Ernst & Young) ■ private sector and individual experts (BP, Statoil, Ross Petroleum)





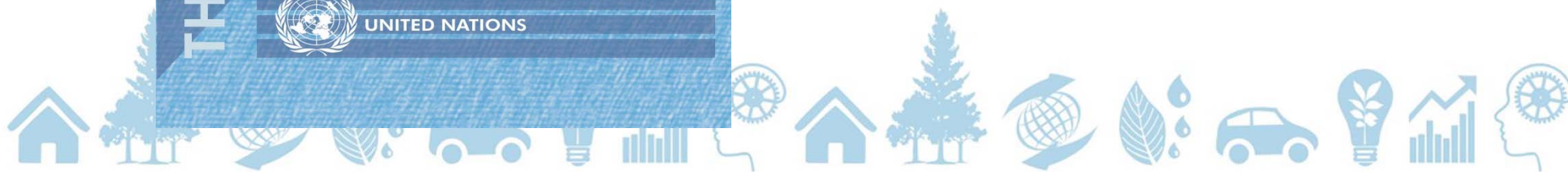
UNFC in print



UNFC (2009)
ECE Energy Series
No. 39

**... available in Arabic,
Chinese, English, French,
Russian and Spanish**

... in hard copy and CD-ROM





To find out more

- Visit the UNECE website at:
 - ✓ www.unece.org/energy/se/reserves.html
- Workshops (national and regional)
- Next Expert Group session:
 - ✓ Geneva, 24-26 April 2013
 - ✓ UNFC Workshop, 23 April 2013
- Contact Charlotte Griffiths
 - ✓ charlotte.griffiths@unece.org
 - ✓ reserves.energy@unece.org

