# Report from the Had Hoc Group of Experts on Fossil Energy and Mineral Resources terminology

16th Annual session of the UNNECE Committee on Sustainable Energy – Agenda item 7



#### **Sigurd Heiberg**

Chairperson
UNECE Ad Hoc Group of Experts on
Harmonization of Fossil Energy and Mineral Resources Terminology



### **Today's requirements**

- Global standards for global markets:
  - Global energy studies for robust policies
  - Government resource management for efficient recovery and maximum value
  - Corporate business process management for efficient industrial activities
  - Financial reporting for proper allocation of capital
- Relevance
- Reliability
- Comparability
- Practicability



### Thanks are due to the UNECE

- To this committee and its excellent bureau for their confidence and inspiration
- To the Division of Sustainable Energy for their talented and essential support and guidance
- To the two officers serving the Group of experts, Clark
   Talkington who took over from Charlotte Griffiths and
   Charlotte Griffiths who has now taken over for Clark
   Talkington.



### ... the Bureau of the Group of Experts

- Thomas Ahlbrandt, CEO, Petrohunter Energy Corp. and former Chief, USGS World Energy Studies
- Fatih Birol, Chief Economist, IEA
- Ferdinando Camisani Calzolari, Representative of CRIRSCO, Mining Consultant and Professor
- Mohamed Hamel, Head, Energy Studies, OPEC
- John E. Ritter, Past Chairperson of the SPE Oil and Gas Reserves Committee, Senior Director, Worldwide Reserves and Reservoir Engineering, Occidental Petroleum..now replaced by **Delores James Hinkle**, Director Corporate Reserves, Marathon Oil Company
- Yuri Podturkin, Chairperson, State Commission on Mineral Reserves, Russian Federation
- Andreij Subelj, Senior Researcher, Project Manager, Institute of Mining, Geotechnology and Environment - IRGO



### ...and to

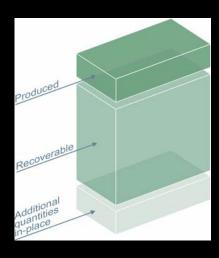
- Per Blystad, Coordinator of petroleum stakeholders and Senior Geologist, Resource Analysis, Norwegian Petroleum Directorate (NPD)
- Mucella Ersoy, Coordinator of mineral stakeholders and Chief Engineer, Planning, Project Dept., Turkish Coal Enterprises
- Mineral Reserves, International Reporting Standards Committee
   (CRIRSCO) for contributing to the technical task force on minerals
- The Society of Petroleum Engineers (SPE) whose Oil and Gas Reserves
   Committee is the technical task force on petroleum

And all the very active members of the group of experts

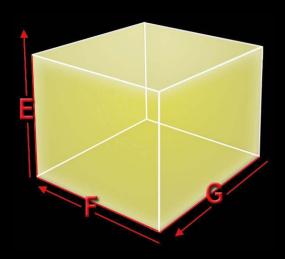
### UN Framework Classification (UNFC) for Petroleum



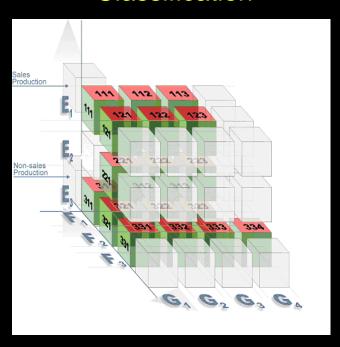
### Total in-place



### **Principles**



### Classification



## Economic and commercial viability

- E1 Economic
- E2 Potentially economic
- E3 Intrinsically economic

## Field project status and feasibility

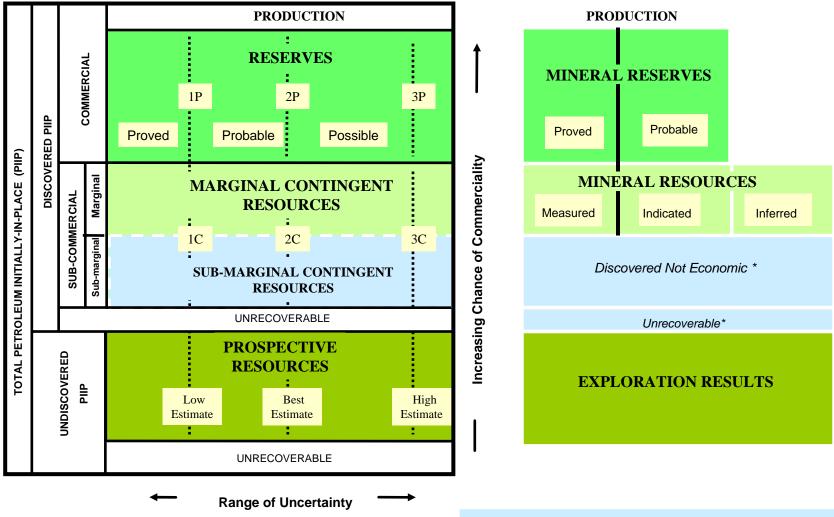
- F1 Justified
- F2 Contingent
- F3 Undefined

### Geological knowledge

- G1 Reasonably assured
- G2 Estimated
- G3 Inferred
- G4 Potential



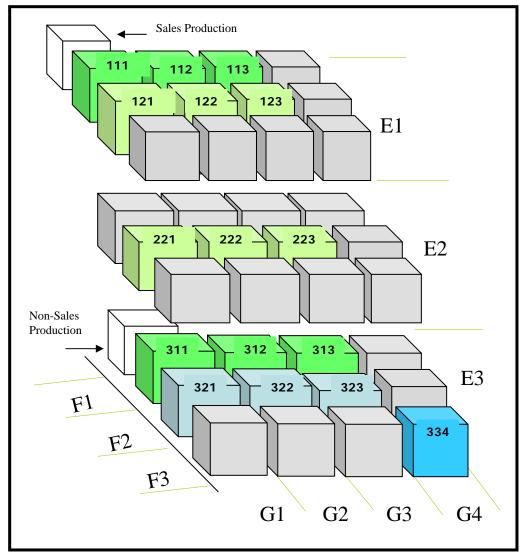
### PRMS-CRIRSCO MAPPING



\*Not part of the Template but may be used for internal project management



### **The 12 UNFC Categories**





### **Classes defined by UNFC categories**

			E axis	F axis	G axis		
Fundamental PRMS Resource Characterization Classes					Proved	Probabl e	Possible
DISCOVERED AND COMMERCIALLY RECOVERABLE	RESERVES		1	1	1	2	3
							3
DISCOVERED AND NOT COMMERCIALLY RECOVERABLE	CONTINGENT RESOURCES	Marginal	2.1	2	1	2	3
		Sub- Marginal	2.2				
	Unrecoverable		3				
					Estimate of Potential		
UNDISCOVERED	PROSPECTIVE RESOURCES		3	3	4.1	4.2	4.3
	Unrecoverable						



### **Definitions of categories**

- Reconsider the current definitions of the UNFC in cooperation with SPE and CRIRSCO to strengthen and shorten the high level definitions to one set for fossil energy mineral resources.
- Develop commodity specific specifications and guidelines as required



### Global adoption of the UNFC

- Due process of adopting changes: Deadline for comments: 30th of January 2008
- Specifications and guidelines are researched in parallel
- Application of the UNFC to recipient reservoirs (storage of CO2, natural gas and other substances)
- The 5th session in April 2008 may recommend changes to the existing UNFC text, to comply with the ECOSOC resolution 2004/233 inviting the Member States of the United Nations, international organizations and the regional commissions to consider taking appropriate measures for ensuring worldwide application of the Framework Classification.



### Introducing a new terminology

- Change of standards is a major operation
- Change is required by the financial community.
- Agreement between IASB and US SEC to harmonize their rules.
- ➤ Extractive activities are on the IASB research agenda. Discussion paper due in 2008. Implementation of an International Financial Reporting Standard (IFRS) earliest 2012.
- ➤ UN (via UNECE AHGE) now collaborating closely with IASB and IOSCO (of which SEC a member). Timing of implementation coincide.



### **Governance of the AHGE**

- The AHGE recommends to the Committee on Sustainable Energy that it renew the mandate of the Ad Hoc Group of Experts for a period of two years, re-emphasising the importance of the Objectives contained in its Terms of Reference, but also to continue consideration of other future options.
- Activities change from seeking global acceptance for the UNFC to to meet the need for lasting reliability of the terminology. This requires funding of permanent capacity.



## Success depends on continued cooperation with a wide range of stakeholders

- > UN bodies
- > Governments,
- NGOs and business community/private sector.
- ➤ International organizations, incl. IAEA, IEA, IEF, OPEC, WEC, and WPC.
- Professional associations, incl AAPG, CRIRSCO, EFG, IASB, IOSCO, IVSC and SPE.



### Some recent activities

- Meeting with representatives of the UNSD London Group, Copenhagen, May 2007
- AAPG/SPE Multidisciplinary Meeting on Reserves in Washington, June 2007
- Annual meeting of the Group of Experts, October 2007
- The 2<sup>nd</sup> International Energy Statistics meeting at the IEA 19<sup>th</sup> -20<sup>th</sup> of November 2007
- AAPG meeting in Athens 21<sup>st</sup> of November
- NB! 5th Session of the AHGE In Geneva, 15-17th April, 2007

