

# **The United Nations Framework Classification Fossil Energy and Mineral Resources**

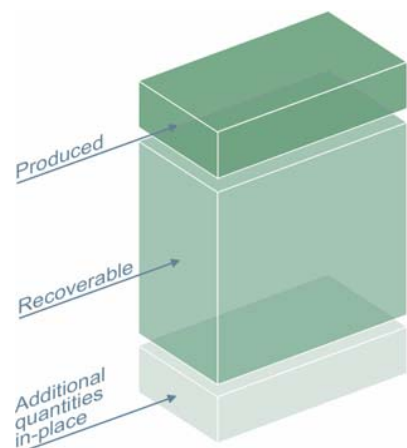
**by  
Sigurd Heiberg  
Chairperson**

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

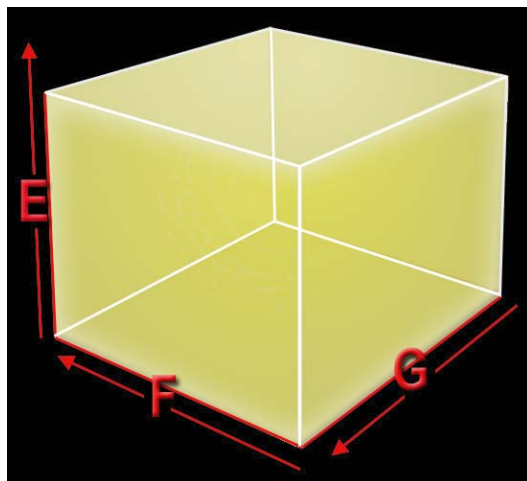
# UN Framework Classification for Petroleum



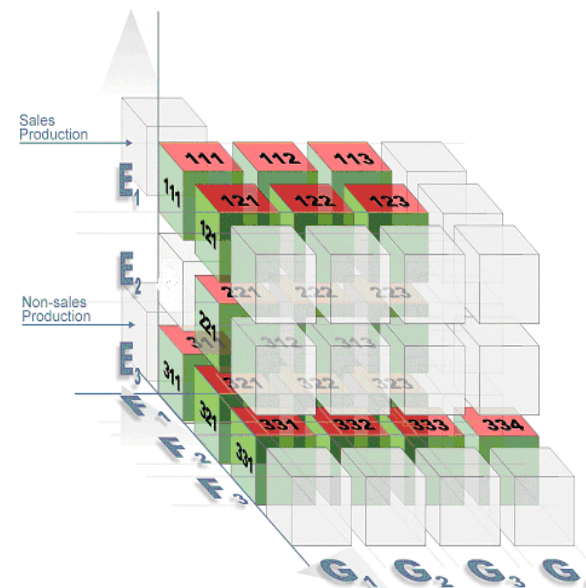
## Total in-place



## 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

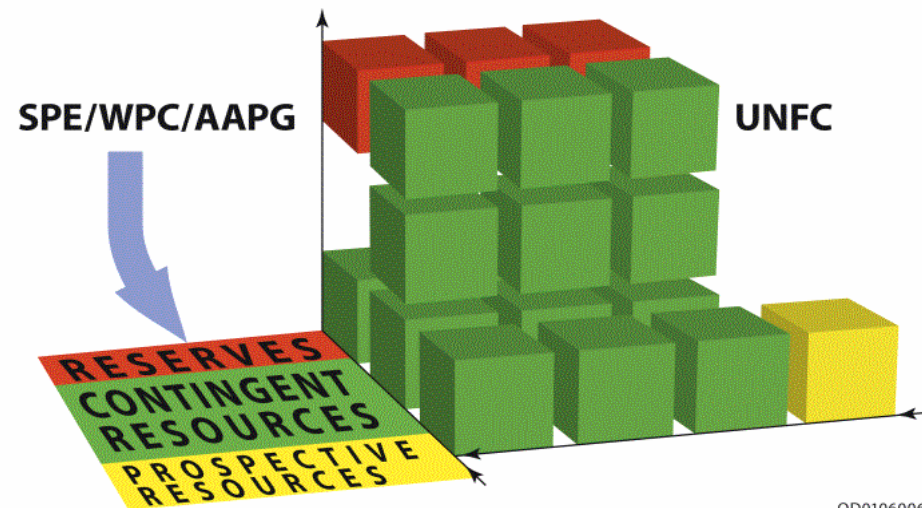
### Geological knowledge

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

# UNFC and the SPE/WPC/AAPG

## SPE/WPC/AAPG

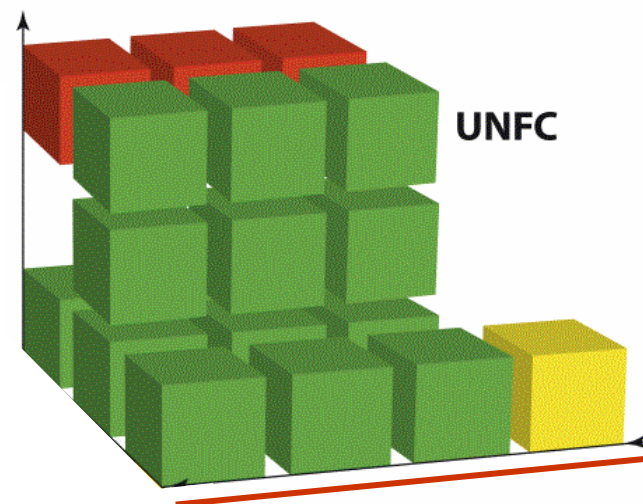
Total petroleum - Initially - In-place	Discovered petroleum - Initially - In-place	Commercial	<b>Production</b>			<b>Project Status</b>	Lower risk
			<b>Reserves</b>			On production	
			Proved	Proved plus Probable	Proved plus Probable plus Possible	Under development	
	Discovered petroleum - Sub-commercial	<b>Contingent resources</b>			Planned for development	Project maturity ↑	
		Low estimate	Best estimate	High estimate	Development pending		
		Unrecoverable			Development on hold		
	Undiscovered petroleum - Initially - In-place	<b>Prospective resources</b>			Development not viable	Higher risk	
		Low estimate	Best estimate	High estimate	Prospect		
		Unrecoverable			Lead		
					Play		
			← Range of uncertainty →				




OD0106006

# UNFC and the Early Classifications

**Early Classifications**



# <http://www.unece.org/ie/se/reserves.html>


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United Nations Economic Commission for Europe

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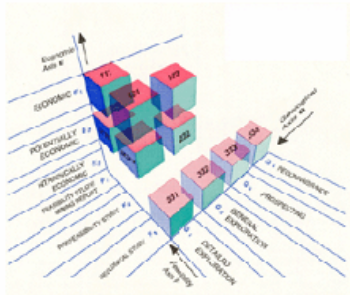
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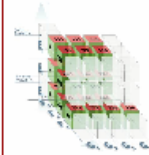
Industrial Restructuring, Energy and Enterprise Development Division

### Energy Reserves and Resources

*including*

- (i) United Nations Framework Classification for Reserves/Resources (UNFC); and
- (ii) Ad Hoc Group of Experts on the Supply of Fossil Fuels





**United Nations Framework Classification for Energy and Mineral Resources**

The United Nations Framework Classification (UNFC) for Energy and Mineral Resources is a universally applicable scheme for classifying/evaluating energy and mineral reserves resources. [\[Download Final Version\]](#)

**Activities & Information**

- [Ad Hoc Group of Experts on Classification of Energy Reserves and Resources](#) (formerly Ad Hoc Group of Experts on the Harmonization of Energy Reserves/Resources Terminology)
- [Practical Application of the UNFC in Selected Countries: Case Studies](#)

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