UNECE – EGS/GSEU Joined Webinar

United Nations Framework Classification for Resources (UNFC)



What is UNFC ?

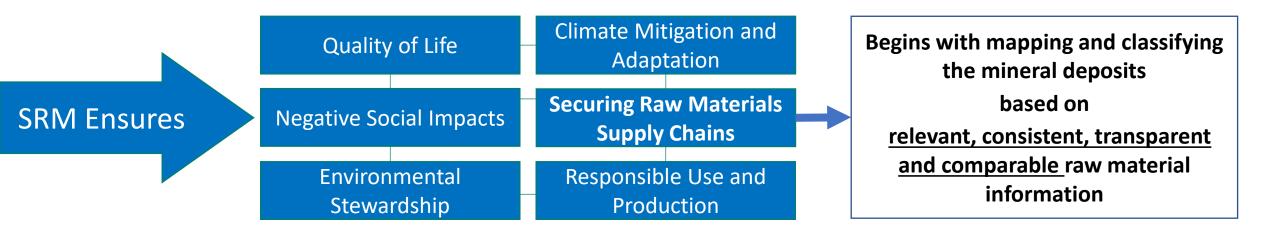
12 December 2023 Online Slavko Solar Economic Affairs Officer Sustainable Energy Division UNECE

2 **UNECE**

Sustainable resource management (SRM) is a holistic practice of using natural resources in a way that meets the present needs without compromising the ability of future generations to meet their own needs,

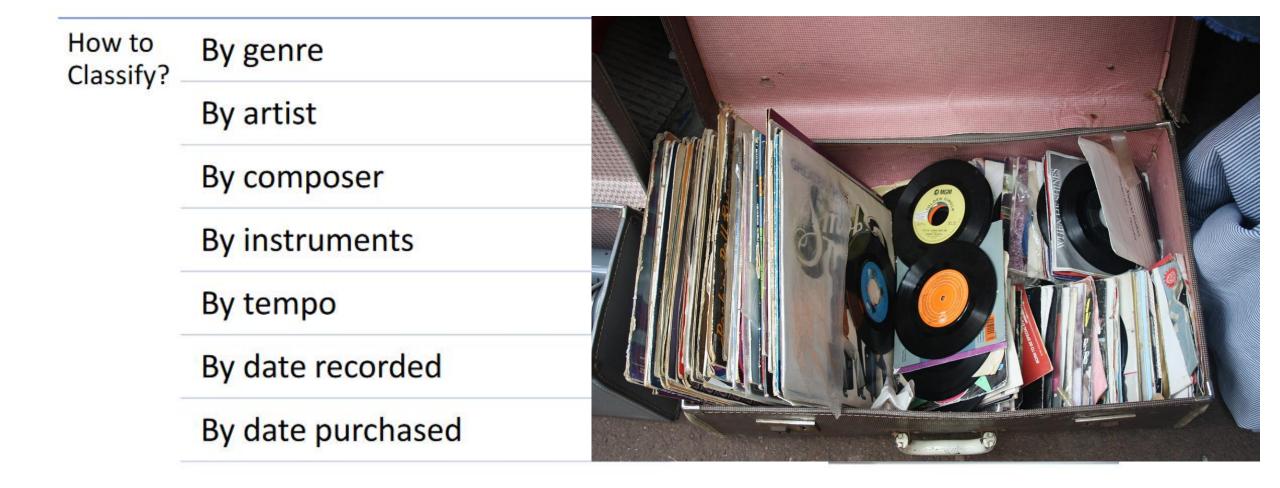
It involves **efficient utilization**, **conservation**, **and restoration of resources** to ensure their long-term availability and minimize negative environmental, social, and economic impacts.

SRM is critical to deliver the UN Agenda 2030 and its Sustainable Development Goals

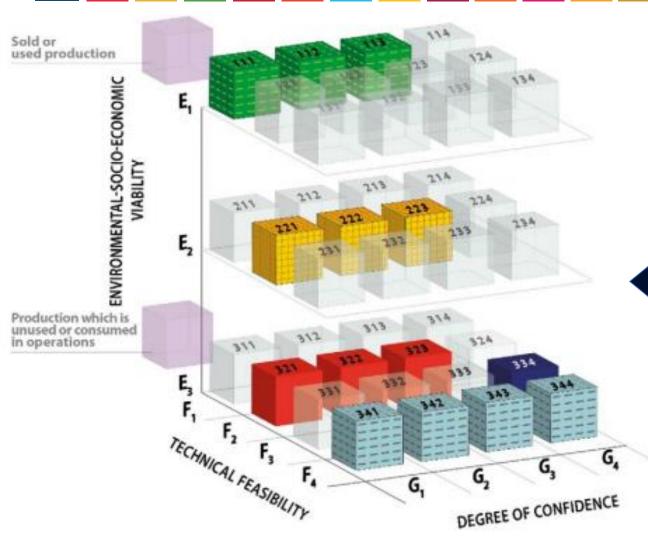


The Challenge of Classification How to Classify?



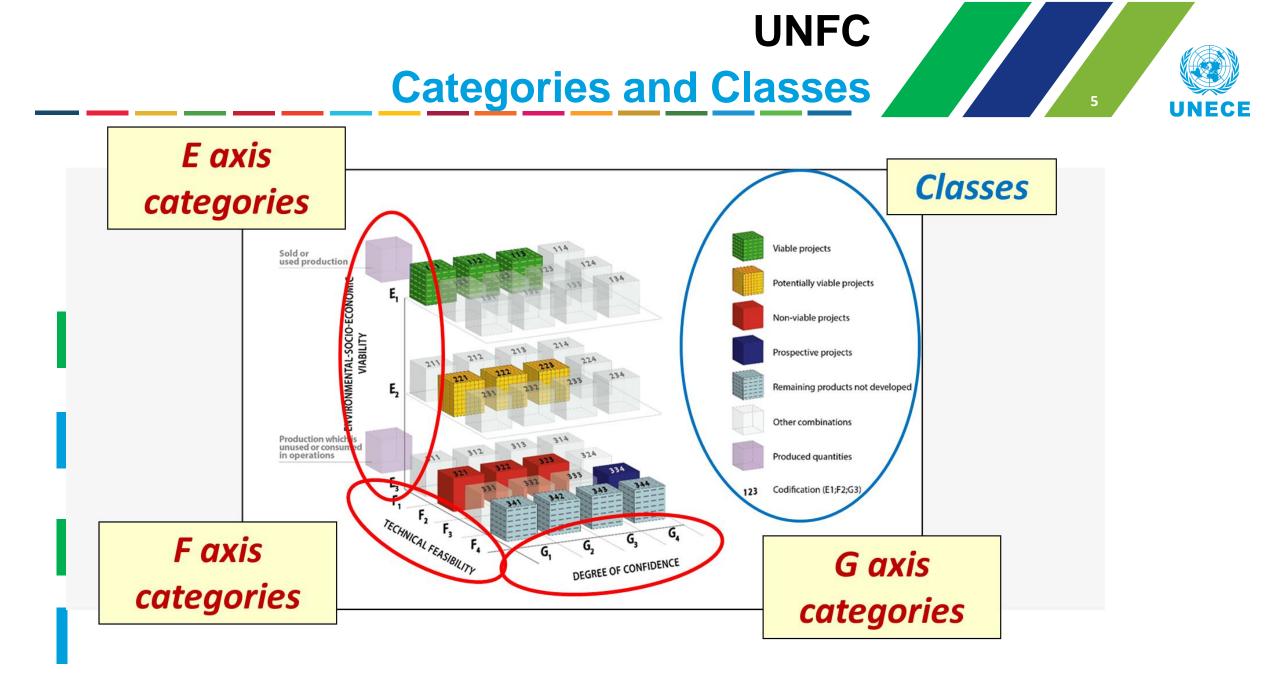


UNFC Overview



• UNFC is an international scheme for the classification, management and reporting of energy and raw material resources

- UNFC is based on 3 fundamental criteria
 - **E axis**: Environmental-socio-economic viability
 - Faxis: Technical Feasibility
 - Gaxis: Degree of Confidence





UNFC Sub-Categories and Classes provide more resolution

https://unece.org/DAM/energy/se/pdfs/UN FC/publ/UNFC_ES61_Update_2019.pdf **UNFC Classes Defined by Categories and Sub-categories**

Sold or used production

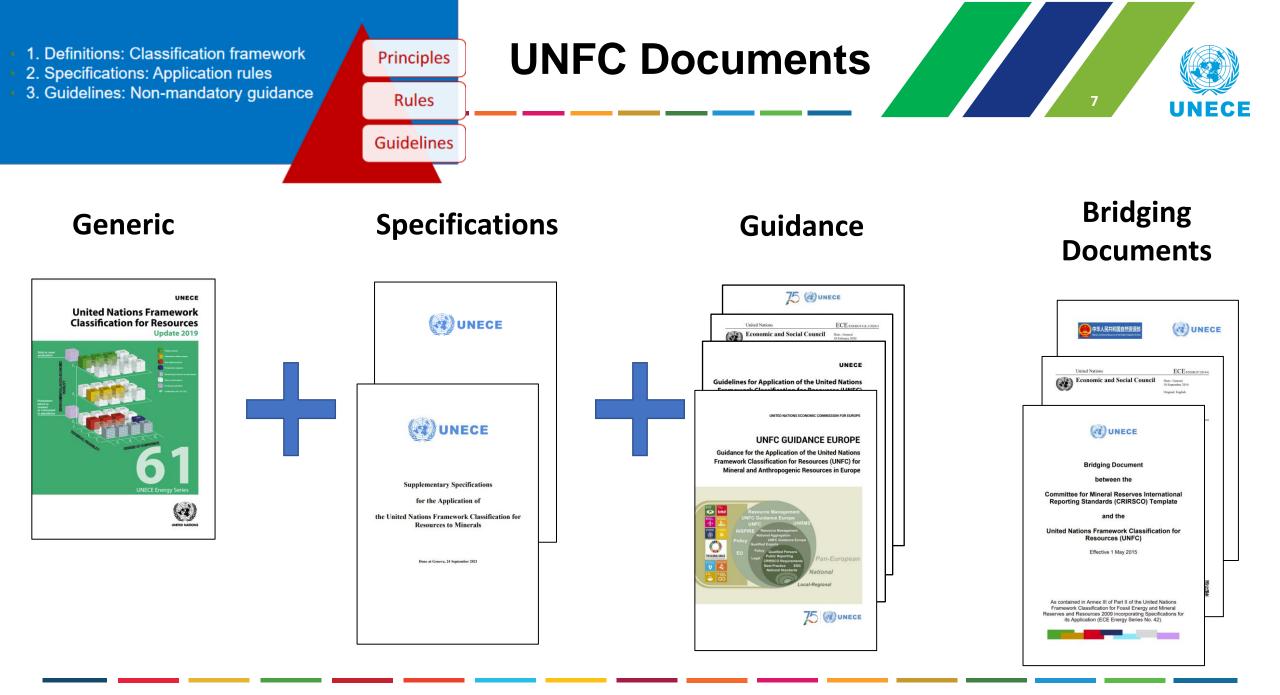
Production which is unused or consumed in operations

Γ		Class	Sub-class	Categories					
		Class	Sub-class	E	F	G			
	Known Sources		On Production	1	1.1	1, 2, 3			
		Viable Projects	Approved for Development	1	1.2	1, 2, 3			
			Justified for Development	1	1.3	1, 2, 3			
		Potentially Viable	Development Pending	2 ^b	2.1	1, 2, 3			
		Projects	Development On Hold	2	2.2	1, 2, 3			
		Non-Viable	Development Unclarified	3.2	2.2	1, 2, 3			
		Projects	Development Not Viable	3.3	2.3	1, 2, 3			
		Remaining p from identifi	3.3	4	1, 2, 3				
	Potential Sources	Prospective Projects	[No sub-classes defined]	3.2	3	4			
		Remaining p from prospe	3.3	4	4				

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Total Products

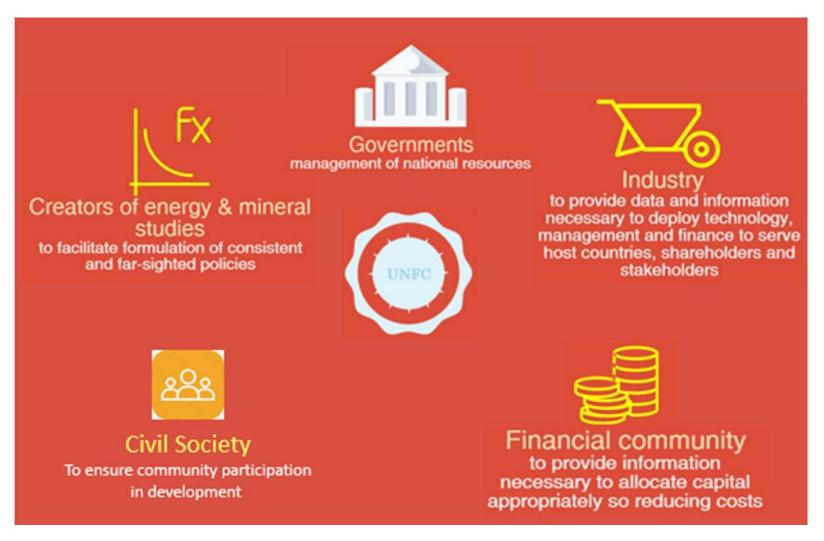
Produced



G	3/T 17766-199	10	UNFC				UN	NFC-2009 Class	ficatio	n		CRIRSCO Template			NEA/IAEA			
05/11/00-1999			级	亚级				UNFC Classes and Sub-classes		UNFC Categories		CRIRSCO Classes			Classification			
经济 意义		1	E1	E1.1 E1.2		经济和社会				E				ub-classe				
		2M						Class	Class Sub-Class		F	G	Class		-Class	IAEA-NEA Categories		Status
		25	5 E2		活力			Commercial Projects	On Production	1	1.1	1			wed			Existing
		3				力	c		Approved for			1	Mineral		bable wed	Reasonab	Reasonably Assured	
		3 63	F3	E3.1 E3.2					Development	1	1 12 2		Reserves	-	pable	Resource	Resources (RAR)	
				E3.3					Justified for Development	1	13	1		_	wed pable			Planned
可行性评价阶段		2 F1/F2						Detempinent			1			sured				
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		\geq	F4						Development On tool	2		1 2 3		Mea	sured		2012	Thespectre
	抽质可靠程度		G1								22		In		cated		RAR	
			G2											Inferred			IR*	
Law (2015) and Proposed New		М	Mineral Resources		Mineral Reserves									Development Unclarified				
Book of Regulations for Solid Mineral Raw Materials	Results of Geological Exploration	Inferred	Indicated	Indicated Measured Probable Proved			Tunnlate			UNFC-2009 "minimum" Categories			UNFC-2009 Class					
	Mineral Reserves						1	Mineral		Proved			F1	G1	Comm	Commoraial Drain		
Official Book of Regulations for Solid	Potential	Potential			Exploitation (inclusive of dilutions and		1	Reserve			Probable		E1	F1 G2		Commercial Projects		
Mineral Raw				Out-of-Balance and Balance)		losses during mining)				Mea		Measured			G1			
Materials (1979)	D ₂ , D ₁	C ₂	Cl	B,A	Cl	B,A		Mineral Resource		Indicated		E2	F2	G2		ally Commercial Projects		
										Inf	erre	ed			G3		-	
UNFC			Mineral I			Reserves		Exploration			Ilts		E3	F3	G4	Exploration Projects		ects
	334	223	222	221	112	111	1		1									

Resource Classification Stakeholders





Thank you !

Slavko Solar

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UNECE

reserves.energy@un.org

https://unece.org/sustainable-energy/sustainable-resourcemanagement

Invitation to attend:



UNECE RESOURCE MANAGEMENT WEEK 2024 ASSURING SUSTAINABILITY IN RESOURCE MANAGEMENT 22 - 26 APRIL 2024 | PALAIS DES NATIONS | GENEVA

https://unece.org/info/Sustainable-Energy/events/384762

Date 12 | 12 | 2023



