UNECE JUST TRANSITION STUDY 2023













2nd Workshop on 4th of April 2024

Tirana





Mirëdita





Overview

- 1. The study project
- 2. Final Report
 - Approach
 - Findings
 - Recommendations
- 3. Discussion

The Study Project

UNECE



JUST TRANSITION ASSESSMENT ALBANIA
A Sector Decarbonization and Just Transition
Framework Applied to Coal Mining





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The Study: ACKNOWLEDGEMENTS

THANKS TO ALL ALBANIAN PARTICIPANTS IN THIS STUDY – IN PARTICULAR THE SUPPORT OF AKBN

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The document was developed under the supervision of **Michal Drabik**, secretary of the UNECE Group of Experts on Coal Mine Methane and Just Transition and with the support of **Oleg Dzioubinski**, Regional Adviser at the UNECE Sustainable Energy Division.

The study was reviewed and edited by **Michal Drabik** and **Raymond Pilcher**, Chair of the UNECE Group of Experts on Coal Mine Methane and Just Transition, with a contribution by **Dario Liguti**, Director of the UNECE Sustainable Energy Division.

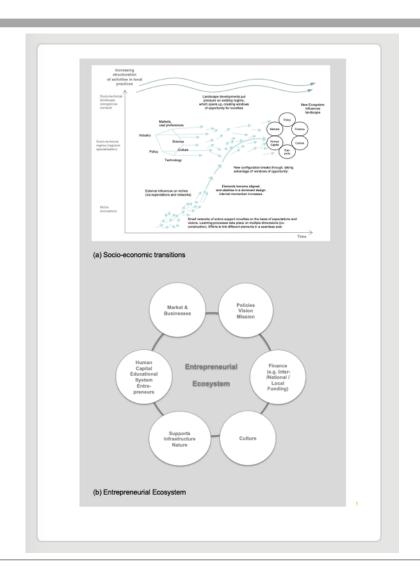
The UNECE Group of Experts on Coal Mine Methane and Just Transition also discussed and approved the document at its 18th session on 18th March 2024 in Geneva, Switzerland.

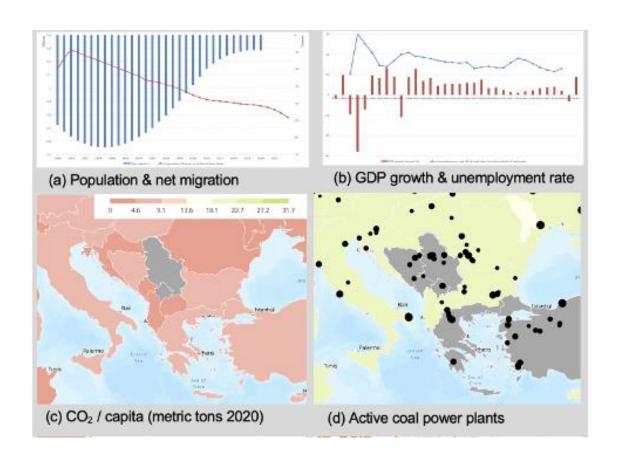
Approach

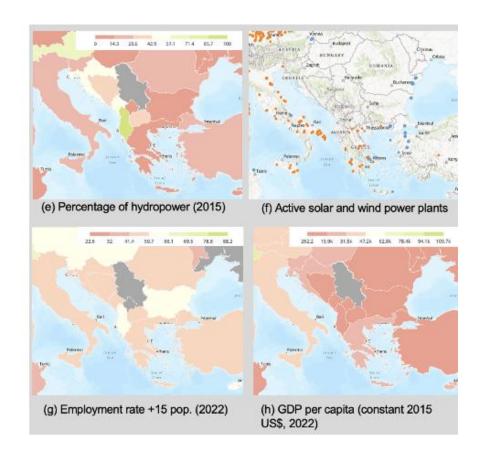
- Framework for a continued transformation of post-coal mining areas
- Description of Albanian coal sector and post-coal mining communities
- Assessment of Just Transition Readiness of the Coal Sector in Albania
- Stakeholder dialogue and practical recommendations

Framework for a continued transformation of post-coal mining areas

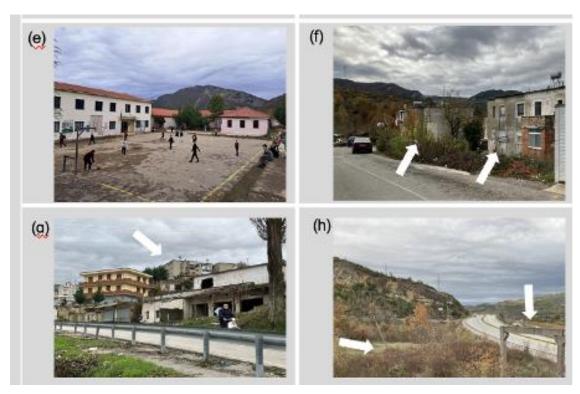


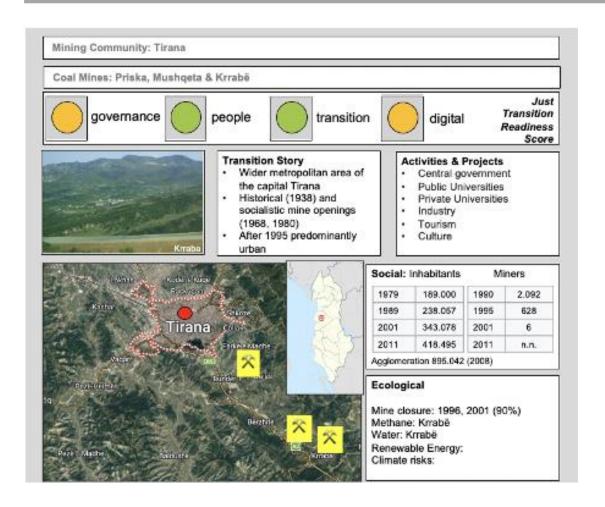












Economical Inhabitants/km² : 805 Car: 10-30 km to Tirana, 0:40 h Public: bus	No.	Nine	First Exploitation Date	DoCM date on Mine Closing	AKBN Register Date	Production (tors)	Estimated Reserves (torn)
	3.7	Mikawai	1900	No.624, dated 04.12.1996	No 2978/2001	1.435.320	1.426.000
	2	Muchopta	1966	No.550, dated 26.08.1996	No.2378/2001	2.300,000	5,365,000
	а	Krana	1936	No.101, dated 02.03.2001	No.2978/2001	1 668 270	R 100 000
	4	Prisks 2	1980	No 550, deted 26,68,1996	No.2378/2001	274.06T	2.682.000
	6	Priske	1980	No 101, deted 02:03:2001	No.2978/2001		2.490.000

The coal mine of Prista is in least of Tisans, approx. It km from the national coad Tisans-Dejt. The coal beath extends as a belt at the base of the Dajt mountain range starting from the villages of Sured and Prista up to the village of Peroblosh in south. Climate is Modiferrance. From the goological point of view the most interesting are the Tortonian depositions, directly related with the coal bearing capacity. This formation is chiefed in three sublayers. Prista; Skutem and Ibit. These sublayers are very complex. Layers I-IV do not represent any interest for the industrial exploitation. Only layer V represent industrial interest. The average frickness is \$2 cm. The calorific host is 3870 Maxing. As it is 34.5%. This mine started the production in 1949 and until 1959 were produced 120 000 ton of coal and were performed 2 000 min mining work. The mine restarted the production and until 0.11.01.1998 are produced approx. 374 000 ton of coal with selectific heat 3 500 kke/kg. In total were performed 11 325 millor interiors the coal supplied the TPP of Tissus, comort factory of Fusiks-Artificial, for the mining activities were associated the Traver banks at the quotes of 450 m; +480 m and +380 m. the second phase continued with the executation of the Tissus beath of 150 m; +285 and fire shaft (1282 to+80). The hydrology is very complex. The water mineralization is very high (0.8 gA), and strength of 22° German scale, but the are not corrective). The water flows star 2 its. The takings volume is estimated: 11326 x 52 x 1.2=70 870 m² for mining works and for the production of 374 000 ton are estimated to be (374 000 x 0.3)*1.8=6.2330 m.

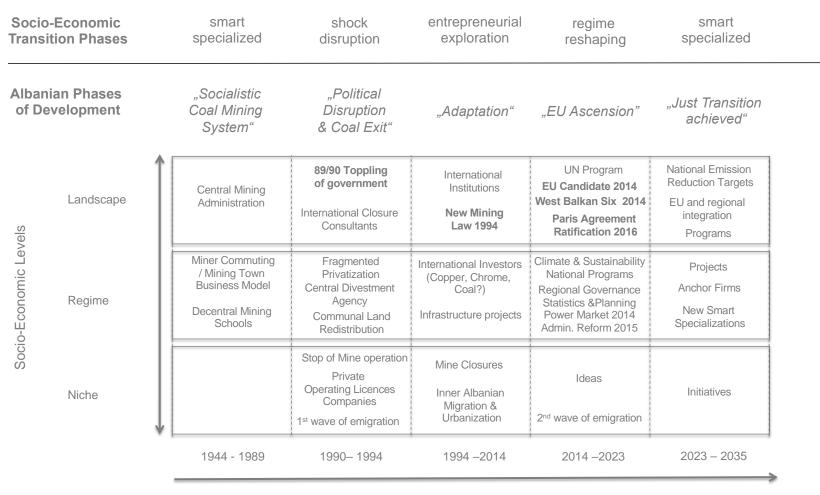
Mushqota mine is located in the coutheast of Triana, along the Tirani-Eibasan highway, approx. 20 km from Tirana. The coal basin cover and extended area including the northwatern side nearby the village of Pislambay, Kryuzi, coal mine of Kinabe, whist in the southwastern part is in bounder with the villages of Mushqota, Bêrzhita and Debrech. The relief is very complex and represent all high chain very hard to pass. Hydrologic system is mostly composed by river of Zali and creak of Lena. The dimate is Mediterranean. Flore is very extended and mostly with busines. Ordinard, whereas and olives are also present in the region. The mining suchview commenced on 1968 with the first Teaver bank at the +425 m set quote till the quote +530 m set. In a second was exceivated the second Traver bank +333 m and +240 m. The first phase of the mining development includes the works at the intercen +240 m to +330 m, white the second phase below the horizon +240 m to -30 m via a three levels shall (+150, +60 and -30 m). The designed capacity of the mine was 100 000 types, for 30-years. Until 1994 the total production is estimated to be j 2.2 million tons. In total were performed 8 400 ml of mining works. The calconic heat is estimated in the range of 2 500 keeting. The geological formations are mainly Tortonian depositions. The basin is part of the Tirane synchral, The industrial infercet was related only wit the layers of Kiratië. Mushqota, Bêrzhita, Philumbaj, Erzeni and Krysdu, precisely with the layers 1*.

- Layer 1º extends for approx. 2 km (the thickness is 20-10 cm, inclination is 25'-50');
- Layer 2 extends for 5 km (unstable alevrolites. The layer thickness is about 50 cm);
- Layer 1 extends for 2.5 km.

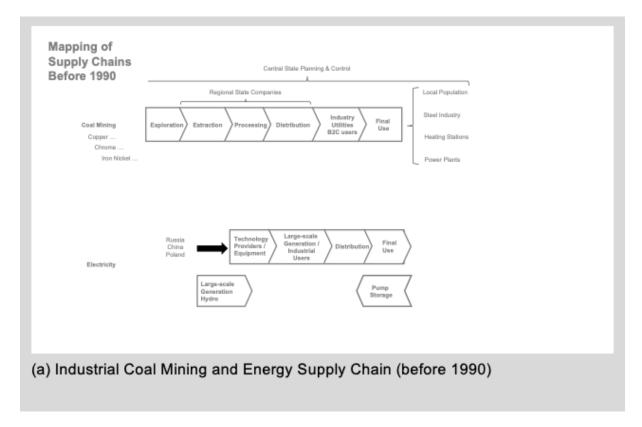
The coal mine represent and artesian point composed by the aquifers of Tortonian and Helvetian. The Tortonian represent 7-8 sandstone aquifers isolated by clays in proximity of the layers 2 and 15. Helwitson represent the coal baseing Boot of the coal basein. Tallings from the mine accession applications or estimated to be 65 000 min and from the mining activities 244 000 min.

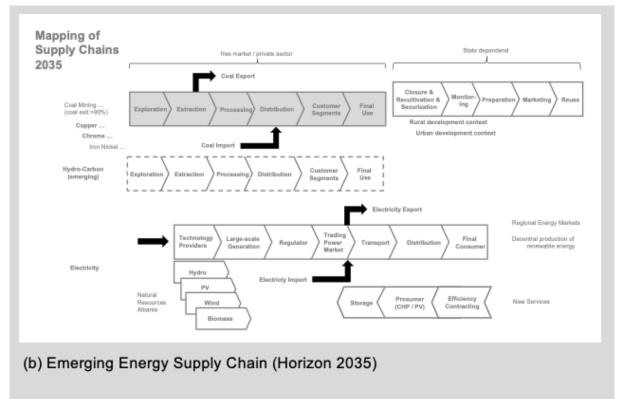
The cost mine of Krabis is 25 km in southwest of Tirans, in proximity of Tirans-Blassen highway. The cost basin extends on nonthwest of villages of PMumbaj-Kryczi, in cast has boundary with the village of Skuterra and in southwest with Musingets. The geological formations are mainly Tortonian to middle Microres. There are found also some quaternary depositions represented by attorise and defluxions of the Erzeni and Zall interests. The cost basing formations interest wit the equifore of the Tortonian complex and Helwellan. Industrial interest is presented only by the layers 1 (composed by shale, stays and allowellas – thickness 0.3-1.5 m) and 2 (composed by compact allowings – thickness 0.5-0.61 m). Until 01.01.2000 were produced 1 558 270 cm of cost with caterific heat 3 474 Marking. The mining works are estimated to be 97 762 m. The mining works tailings are estimated to be 97 762 m. The mining works tailings are estimated to be 97 762 m.)

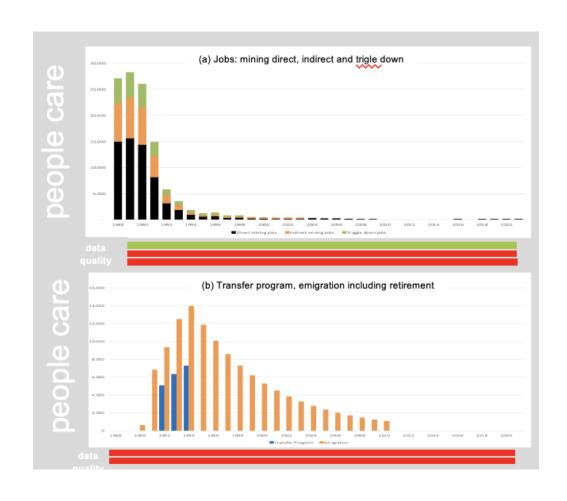
Assessment of Just Transition Readiness of the Coal Sector in Albania

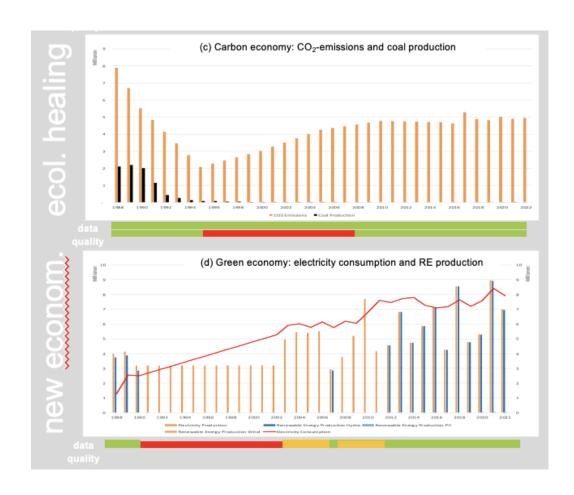


transformation time









Assessment of Just Transition Readiness of the Coal Sector in Albania

Just Transition Maturity Albania	Neutral	Basic	Managed	Defined	Established
Governance	Х#	0+			
Regional Agency	Xo+	#			
People Care		O+#	x		
People Develop	Xo+#				
Ecological Healing	О#	X+			
New Economy		Xo+#			
Data Transparency		Xo+#			
Digital Cooperation	X+	O#			

Table 7: Maturity Assessment (Expert 1: x; Expert 2: o; Expert 3: +; Expert 4: #)

Stakeholder dialogue and practical recommendations

Observations

- 1. A first part of this socio-economic transition of coal mining in Albania is already completed: the exit of coal mining as a business has been finished in the wake of market liberalization within less than 5 years after 1990. The challenging and immediate task of relocation of employees from closed mines has been solved by time.
- 2. A window of opportunity opens to finish the unfinished mine closure of the 1990s: Closed mine securization, land-reuse and new business development are still an open end of Albania's coal mining exit. Attention and efforts of international institutions like UN and EU on a decarbonization of the Western Balkan could provide government attention and financial resources to support a Just Transition program centered around a second securization program of the post-mining areas.
- 3. Albania has a unique opportunity to position itself as an ambitious European first mover towards a net zero economy. Blessed with a considerable geographical potential for renewable energy and a legacy of significant installed hydropower capacity the country has a pole position amongst European nations to become a green economy leader. An ambitious program of solar and wind power farms could fill the widening gap between renewable power production and increasing power consumption. Such a program would not only boost local business and energy production, but it could serve as a modernization drive in higher education institutions, start-up communities and targeted foreign investment attraction.

Recommendations

Create participatory process and governance for "Just Transition & Coal Exit in Albania"

Win stakeholders on a national level Set up a robust multi-lever process, centrally coordinated governance

supporting the identified areas of action on the decentral, local level. Leverage EU driven institutional renewal: Invest in Governance, Policy Frameworks and Local Entrepreneurship.

Modernize into a Competitive Green Economy

Carefully phase out fossil fuels (smart end of use strategy, CO₂ risk management)

Build and invest in competitive infrastructure (grid, regional integration, power exchange) for a green, sustainable economic development of Albania

Build markets for expanding usage of renewable energy and local resources

Reinvent local business models and foster smart specialization of communities

Foster and accelerate adaptation via modernization of higher education institutions and research, international learning networks and practical cooperation on local, national and regional level

Private sector and local initiative mobilization

Private sector and local initiative support framework on a central level

Just Transition Innovative Project Award 2025

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Just Transition Innovative Project Award 2025





Just Transition Innovative Project Award 2025



2025 Award

- Donation of 333 EUR by Jürgen Lange & Son for the 1st Price
- Top 3 projects presented at UNECE 03/2025 (via video)

Award Jury and Assessment

- Mixed Jury of Experts (UNECE / region)
- Competition of at least 5 projects
- Project Presentation (max. 20 PPT-Slides)
- handed in by 31.01.2025

Project Assessment Criteria

- Post-Coal-Mining Project for the Next Generation
- Value Creation in the Regional Mining Community
- Simplified Business Plan of the Project Idea
- English Presentation as the world learns together

UNECE Just Transition for Coal Mining Regions Albania PROPOSITIONS

UNECE Study 2023

An Outstanding Opportunity

Just Transition & Coal Exit Albania – Sugggested Areas of Action



1.Create participatory process and governance for "Just Transition & Coal Exit in Albania"

- Win stakeholders on a national level and build a shared and methodological sound perspective on the "Just Transition & Coal Exit"
- Set up a robust multi-lever process and centrally coordinated governance via the identified areas of action
- Leverage EU driven institutional renewal: Invest in Governance, Policy Frameworks and Local Entrepreneurship for the Mining Sector, Former Mining Communitites and related Education

2. Modernize into a Competitive Green Economy

- Carefully phase out fossil fuels (smart end of use strategy, CO2 risk mgt)
- Build Infrastructure (Grid, Regional Integration, Power Exchange) for a green, sustainable economical development of Albania
- Build markets for expanding usage of renewable energy and local resources

3. Reinvent local business models and foster smart specialization of communities

- Foster and accelerate adaptation via learning networks and cooperation on local, national and regional level
- Private sector and local initiative mobilization
- Private sector and local intiative support framework

Just Transition Albania: Just Transition Road Map (Workshop 04.04.24)

Progress

Vision:

Use Just
Transition
process fto
leverage EU
ascession
modernization
for building a
green economy

AA1: Project Set Up

AA2: Government & Governance _____

AA3: Empower Local Activitites

AA3: Green Economy Infrastructure

M1.1

M2.1

M3.1

M4.1

M1.2

M2.2

M3.2

M4.2

M1.3

M2.3

M3.3

M4.3

M1.4

M2.4

M3.4

M4.4

Program:

Component 1: Just transition process to complete mine closure and coordinate activities

Component 2: Reinvent smart specialization in the Communities in a decentral approach

Component 3: Enabling
Sustainable Economic Growth
by creating infrastructure and
preconditions for green
economy

Just Transition Albania: Just Transition Road Map (Workshop 04.04.24)

Progress

AA1: Project Set Up

AA2: Government & Governance

AA3: Empower Local Activitites

AA3: Green Economy Infrastructure

M1.1 Identify an organization on national level in Albania who organizes a dialogue process "Just Transition"

- Stakeholder Contact Group on national level
- Stakeholder Contact Group on Westbalkan Six
- Series of 3 consecutive Workshops (Roadshow, Idea Generation, Project Selection) in concerned Mining Communities (see also M3.2)

M2.2 Special Legislation to enhance decentral renewable energy generation

- Priority Clearing of Land issues in Former Mining Sites
- Declare special nature (package)
- protection status for this land in remote areas with routism potential
- Declare favorite development status in urban areas.

M3.2 Summer Academy of Regional Mining Universities

Students, Stakeholders and potential employers elaborate Scenarios for the concerned Mining Communities. Financing via International Educational Programs or throuth the West Balkan Six Initiative.

M4.4 Special Legislation to enhance decentral renewable energy generation

- Priority Clearing of Land issues in Former Mining Sites
- Declare special nature (package)
- protection status for this land in remote areas with routism potential
- Declare favorite development status in urban areas.

Component 1: Just transition process to complete mine closure and coordinate activities

Component 2: Reinvent smart specialization in the Communities in a decentral approach

Component 3: Enabling Sustainable Economic Growth by creating infrastructure and preconditions for green economy

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