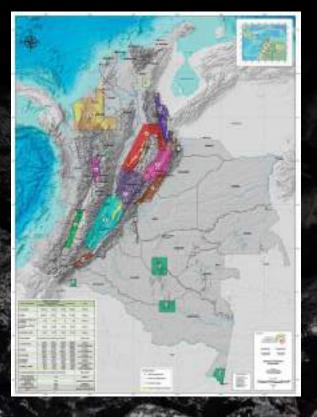








Of the total number of mining titles, 97.5% correspond to small and medium mining, and only **2.5%** to large-scale mining. About **88%** of coal production is extracted in open-pit mining areas, mainly in the departments of Cesar, La Guajira and Cordoba, with thermal coal primarily for export; the remaining 12% is mined mainly underground in the departments of Antioquia, Cauca and Valle del Cauca, with thermal coal, and in the departments of Cundinamarca, Boyacá, Santander and Norte de Santander, with high-quality thermal and metallurgical coal, which besides supplying the domestic market, is also exported.





Coal

94% Includes Metallurgical Coal





157 in exploration* Metallurgical 73%

967

Mining concession proposals



1,304 in exploitation* 96%

*Titles by contractual stage

579,402 ha (0.51% of national territory)

Source: NMA,- AnnA mineria 30/11/2023



20

20 20 **Economic Data Colombia**

	Production Associated to royalty payments (Million tons)	(Million USD)
20	56.1	306.8
21 ^P	62.2	522.1
22 ^{Pr}	64.2	1,686.5

Exports (Million tons - Million FOB USD)

71.2 Mt - 4,165.8 M 59.7 Mt - 5,652.3 M 60.9 Mt - 12,288.8 M





2022 World Rankings

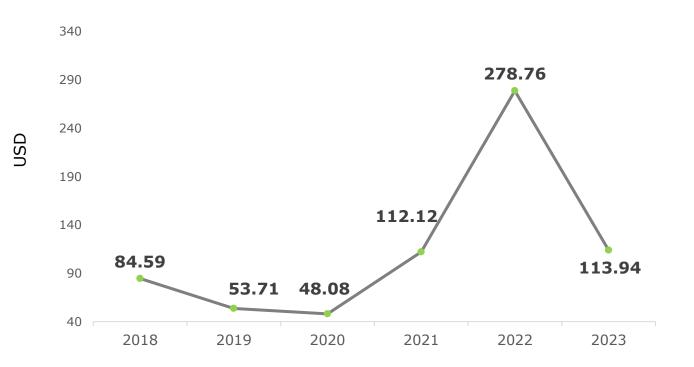
	World Production*	(Million tons)	Production in Latin America*	(Million tons)	Consumers*	(Exajoules)
	1. China 2. India 3. Indonesia 4. USA 5. Australia 6. Russia	4,560.0 910.9 687.4 539.4 443.4 439.0	 Colombia Brazil Mexico Venezuela Other LATAM 	64.2 7.5 5.5 0.2 0.3	1. China 2. India 3. USA 4. Japan 5. Indonesia 6. South Africa	88.17 20.09 9.87 4.92 4.38 3.31
and the second s	12*. Colombia	64 2			serves by 4,554 Mt of an ATAM (46,6%): correspo	

approximately 0.6% of the World Reserves.

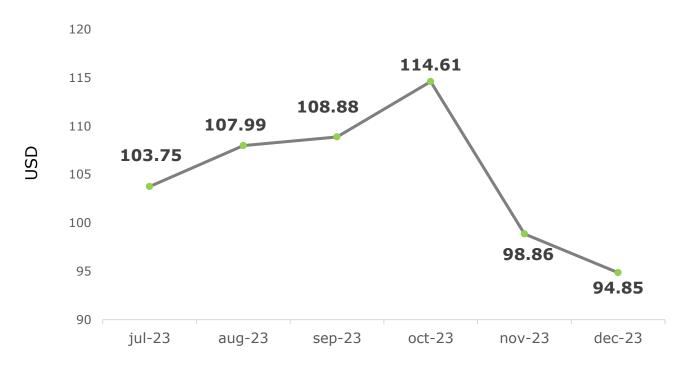
Source: National Mining Agency - NMA 31/10/2023, www.trademap.org/, National Administrative Department of Statistics-DANE, CGS - Map of coal potential in Colombia 2016, Exchange Rate 2020: Col \$3,693.36; 2021: Col \$3,743.09; 2022 : Col \$4,255.44. Pr: preliminary. P: provisional. *Bp Statistical Review of World Energy Data 2022.



Colombian thermal coal FOB price last 6 years USD/ton



Colombian thermal coal FOB price last 6 months USD/ton







Production

(Associated to royalty payments)

Department	Municipality	2020 (Ton)	2021^P (Ton)	2022^{Pr} (Ton)
	Agustin Codazzi	6,159,357	373,978	44,025
	Becerril	15,921,028	20,261,855	20,380,744
Cesar	Chiriguana			353,151
	El Paso	1,526,016	660,952	2,614,094
	La Jagua de Ibirico	10,990,941	8,308,815	6,879,293
	Albania	1,696,331	2,598,495	2,547,238
La Guajira	Barrancas	10,536,043	20,347,557	18,451,104
	Hatonuevo	344,022	671,200	919,324
Cundinamarca	Various	2,118,467	2,213,950	2,761,407
Boyaca	Various	2,767,377	2,601,153	3,024,940
Norte de Santander	Various	2,287,327	1,943,763	3,584,003
Cordoba	Puerto Libertador	1,489,687	1,580,930	2,074,564
Santander	Various	110,764	340,157	313,731
Antioquia	Various	156,257	252,520	227,833
Valle del Cauca	Various	14,017	20,556	45,456
Cauca	Various	11,818	6,653	8,715
Casanare	Recetor	641		
Tot	tal	56,130,093	62,182,534	64,229,662

In **2022^{Pr}** coal accounted for 54.4% (USD 2,358 million) of mining GDP, **0.66%** of national GDP and **89.45%** of total mining royalties collected.

In 2022, Colombian coal production represented 82.7% of LATAM production and 0.7% of world production.



Colombia produces high quality thermal and metallurgical coal due to its high calorific value of up to 14,161 BTU/LB (one of the highest in the world), with low sulfur, ash and moisture content.

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*Coal potential of Colombia: Coal resources and reserves, 2004 base

Atlantic Coast:

Interior of the country:

Total:

Thermal coal 7,906 MT

Thermal coal 6,053 MT

Metallurgical coal 2,609 MT

Thermal and Metallurgical coal 16,569 MT





Coal exports 2022 (Million tons)

54.5 MT	
1.9 MT	
0.1 MT	
4.4 MT	
	1.9 MT 0.1 MT

Colombia is the **sixth** largest exporter of coal in the world with **4.9%** of total exports*; it is also the third largest exporter of coke with about **12%** of world exports**.

Coal accounted for 21.5% of the value of Colombian exports and 74.2% of mining exports in 2022.

Source: SIMCO- UPME, NMA 30/04/2023., *Bp Statistical Review of World Energy Data 2022. Exchange Rate 2020: \$3,693.36; 2021: Col \$3,743.09; 2022 : Col \$4,255.44. **www.trademap.org/ 2022.

Colombian coal exports are transported by sea. Main destinations for thermal coal in **2022**: Turkey 21.22%; Netherlands 14.85%; Chile 7.85%; Israel 7.66%; Dominican Republic 4.55%; Brazil 4.43%; United States 4.43%; Poland 4.15%; Mexico 4.06%; Korea 3.94%; Spain 2.72%; Canada 2.64%; Puerto Rico 2.52%; Guatemala 2.20%; Japan 1.67%; Panama 1.66%; Germany 1.43%; Ireland 1.12%; Argentina 1.00%; United Kingdom 0.81%; Taiwan 0.76%; Morocco 0.72%; Peru 0.65%; Italy 0.63%; France 0.54%; Ukraine 0.46%; Denmark 0.46%; Guadeloupe 0.31%; Indonesia 0.15%; South Africa 0.10%; Romania 0.10%; India 0.09%; Senegal 0.07%; Belgium 0.06%; and other countries 0.005%.

Metallurgical coal: Brazil 32.76%; China 19.65%; Japan 18.12%; Turkey 16.63%; Poland 6.02%; Mexico 3.24%; Singapore 3.04%; Argentina 0.52%; and Ecuador 0.004%.

Main coke destinations during 2022: Brazil 26.62%; India 15.52%; Turkey 12.72%; Mexico 12.56%; United Kingdom 6.21%; Belgium 4.63%; South Africa 4.07%; Argentina 2.62%; Malaysia 2.08%; Gabon 1.88%; Sweden 1.70%; Norway 1.70%; Ukraine 1.67%; Finland 1.52%; Poland 1.08%; Albania 0.76%; New Caledonia 0.59%; Germany 0.50%; France 0.50%; Spain 0.33%; Ireland 0.24%; Singapore 0.23%; Georgia 0.22%; Ecuador 0.03% Indonesia 0.02%; Japan 0.01% and other countries 0.01%.

"Colombia accounts for about 5% of the world's total seaborne coal trade*".

https://mineriaencolombia.anm.gov.co/