RESOURCE SCORE

Res-1: Land resource intensity (from

resource_score1_coal_all.csv)

Field	Units	Direction	Meaning
Land_Use_Intensity_ ha_per_Mt	ha/Mt	Higher=worse	Land used per Mt coal (surface mining intensity).
Plants_Count	#	Higher=worse	Count of coal plants (fleet size proxy).
R_P_ratio_years	years	Higher=worse (lock-in)	Reserves divided by annual production; long R/P ⇒ longer lock-in.

Res-1 composite: mean of normalized sub-scores (invert none by default here).

Res-2: Water (from resource_score2_coal_all.csv)

	Field	U	Direction		Meaning
Water	_Use_m3	m	Higher=w orse	Total water coal.	consumption for
			UISC	coai.	

Share_Global_Wa % Higher=w Share of global coal water ter_Use orse footprint.

Res-2 composite: mean of normalized sub-scores.

Res-3: Extraction & waste (from resource_score3_coal_all.csv)

Field	Unit s	Direction	Meaning
Extraction_S hare	%	Higher=worse	Country share of global coal extraction.
Coal_Ash_Was te_t	tonn e s	Higher=worse	Total ash waste.
Waste_to_Use _Ratio	t/t	Higher=worse	Ash per tonne of coal (quality proxy).

Res-3 composite: mean of normalized sub-scores.

Resource composite (family)

Resource_Composite = mean(Res-1, Res-2, Res-3).

How the script applies this

resource_scores.py

- Token-based inversion for positive fields like restored, replenish, efficiency (if such columns appear).
- Computes Res1_composite, Res2_composite, Res3_composite, then Resource_Composite.

• Saves CSV + charts.

Run

bash

CopyEdit

- python resource_scores.py
- # or, z-score:
- python -c "import resource_scores as s; s.compute_resource(norm_method='zscore')"

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