Lithium Carbon Footprint Study

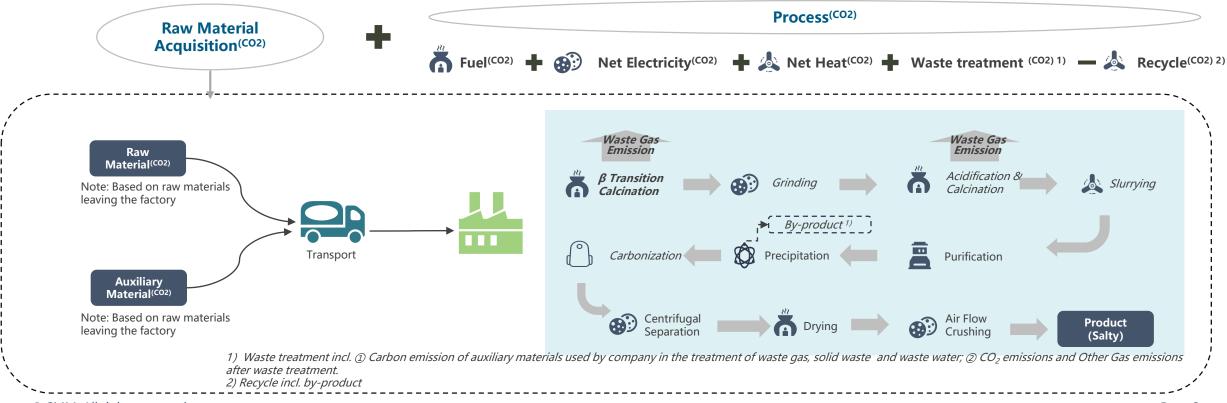
© SMM. All rights reserved.

Carbon Emission Calculation Methodology – Based LCA (1/2)

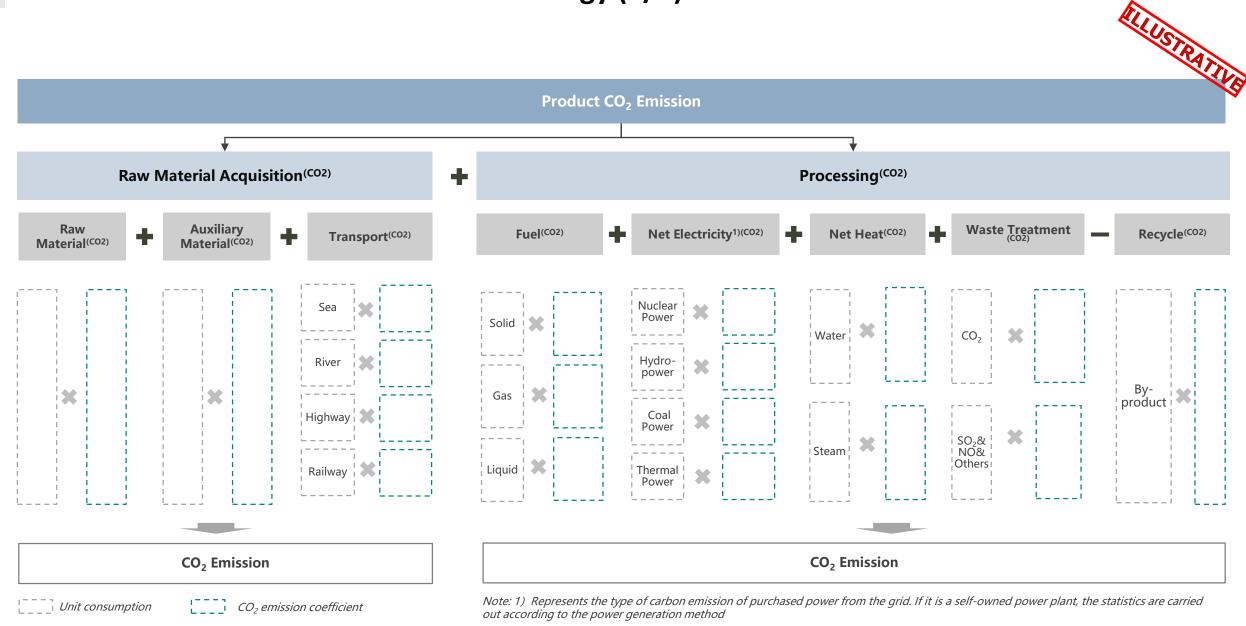


Basis of Product Carbon Boundary Calculation

- According to <ISO 14040>, <ISO 14067> and <Guidelines on Accounting Methods and Reporting of Greenhouse Gas Emissions of Mining Enterprises>, this project adopts the product life cycle assessment (LCA) method to calculate CO₂ emissions of products
- The product carbon emission boundary includes: raw material acquisition (incl. auxiliary materials), and the accounting boundary from production and packaging to factory delivery of products.



Carbon Emission Calculation Methodology (2/2)

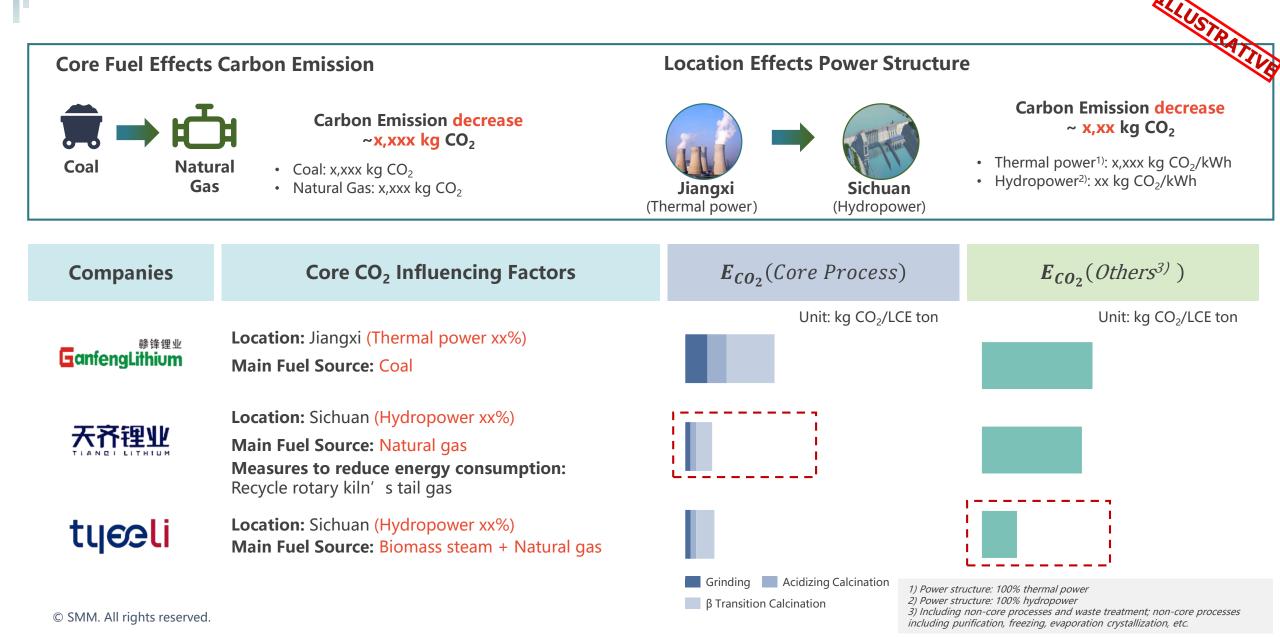


© SMM. All rights reserved.

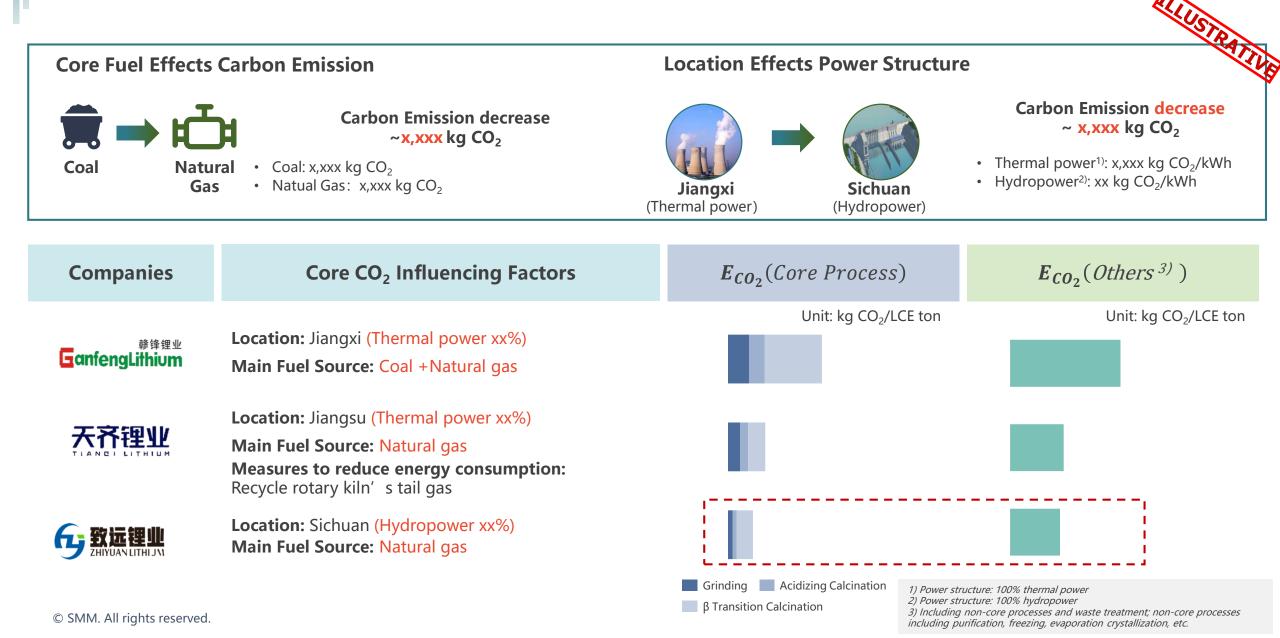
Lithium Salt Supply Overview

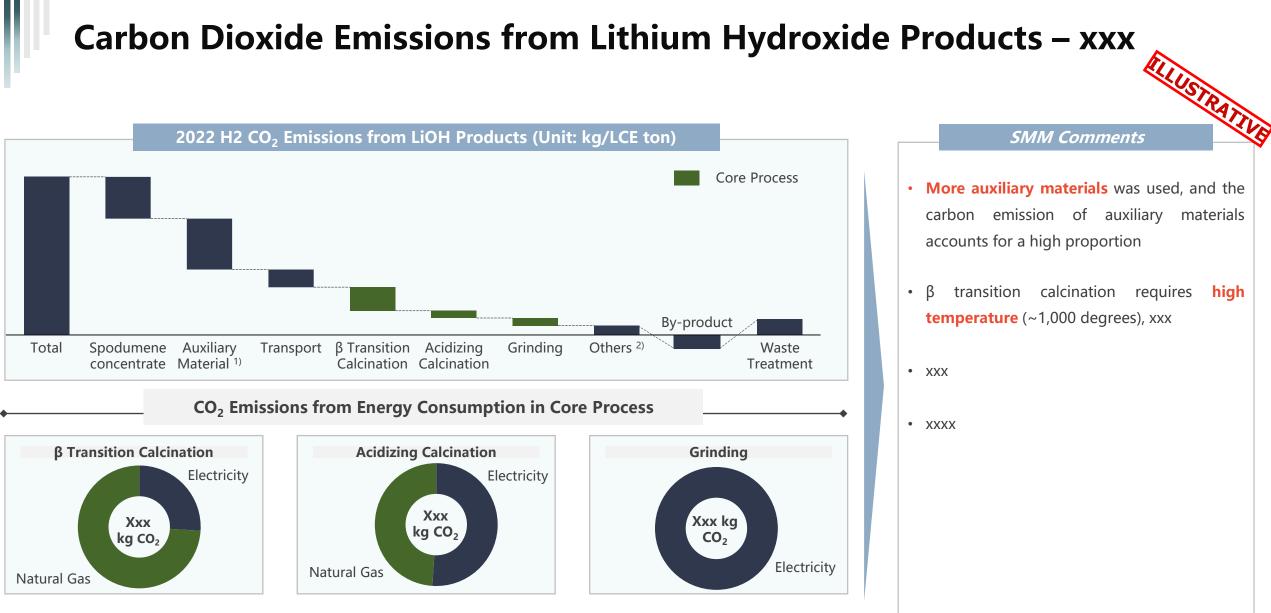
	um Salt S	Supply O	verview			mission
Lithium Salt Product	Company Name	Ore Grade (Li ₂ O)	Concentrate Grade (Li ₂ O)	Key Process Influencing Carbon Emission		
				β Transition Calcination	Acidizing Calcination	Others
LiOH (Li: 16.5%)	^{赫锋锂业} GanfengLithium	xx% (Mt.Marion)	xx%	 Coal: Heating Electricity: Rotary kiln Temperature: 1,200-1,400°C 	 Coal: Heating Electricity: Acidizing kiln Temperature: 300-400°C 	Steam (Coal preparation): xx
	天齐理业	xx% (Greenbushes)	xx%	 Natural gas: xx Electricity: xx Temperature: xx°C 	 Natural gas: xx Electricity: xx Temperature: xx°C 	Steam (Natural gas preparation): xx
	tyœli	xx% (Pilbara)	xx%	 Natural gas: xx Electricity: xx Temperature: xx°C 	 Natural gas: xx Electricity: xx Temperature: xx 	Steam: xx
Li ₂ CO ₃ (Li: 18.8%)	^{赫锋裡业} GanfengLithium	xx% (Mt.Marion)	xx%	 Coal: xx Electricity: xx Temperature: xx°C 	 Natural gas: xx Electricity: xx Temperature: xx 	Steam (Coal preparation): xx
	天齐理业	Li ₂ O: xx% (Greenbushes)	xx%	 Natural gas: xx Electricity: xx Temperature: xx°C 	 Natural gas: xx Electricity: xx Temperature: xx°C 	Steam (Natural gas preparation): xx
		Li ₂ O: xx% (Mt Cattlin)	xx%	 Natural gas: xx Electricity: xx Temperature: xx°C 	 Natural gas: xx Electricity: xx Temperature: xx°C 	Steam (Natural gas preparation): xx

Lithium Hydroxide CO₂ Emissions Assessments



Lithium Carbonate CO₂ Emissions Assessments





Notes:

1) Auxiliary Material: refers to the auxiliary materials for the production of LiOH products, such as sulfuric acid, calcium carbonate, sodium hydroxide, etc. (excluding the chemical reagents added for waste gas treatment).

2) Others: refers to CO₂ emissions from other production processes.

© SMM. All rights reserved.