



**Company Presentation** 

May 2020



# Ganfeng Lithium – China's Largest Lithium Compounds Producer



No.1
Lithium Metals Production
Capacity Globally



No.2
Lithium Hydroxide Production
Capacity Globally



Investments in Upstream Resources



361
Research &
Development Staff



RMB5.25bn (US\$754m)<sup>1</sup> FY2019

FY2019 Total Revenue



RMB1.32bn (US\$190m)<sup>1</sup>

FY2019 Adj. EBITDA



2010
IPO on
Shenzhen
Stock Exchange

2018
IPO on Hong
Kong Stock
Exchange



US\$8.25bn

Total Market Capitalization<sup>2</sup>





## **Recent Developments**

### **Lithium Resources**

Mt. Marion





Increased stake in Mt. Marion to 50%

Cauchari-Olaroz





Increased shareholding in Minera **Exar** to **51%** 

Bacanora / Sonora





Acquired 25.8% interest in **Bacanora Lithium and 22.5%** interest in Sonora (project level)

**Pilbara Minerals** 





Increased stake in Pilbara Minerals to 6.86%

### **Lithium Batteries**

- Increased capacity of consumer batteries to 30mm pieces per annum

Started production in 1Q19 of TWS batteries with multiple national patents



Constructed a pilot production line of solid-state lithium battery with annual capacity of over hundreds of Mwh



Expanded lithium battery recycling capacity to 34,000 tons per annum



Source: Company disclosure.



# **Business Update**



**COVID-19 Impact** 

- Resumed operation of major production lines in late February
- Actively managing inventory level of lithium products
- Further government stimulus to come



**Pricing Outlook** 

Long-term pricing premium of high-quality lithium hydroxide is expected to continue given limited qualified suppliers available



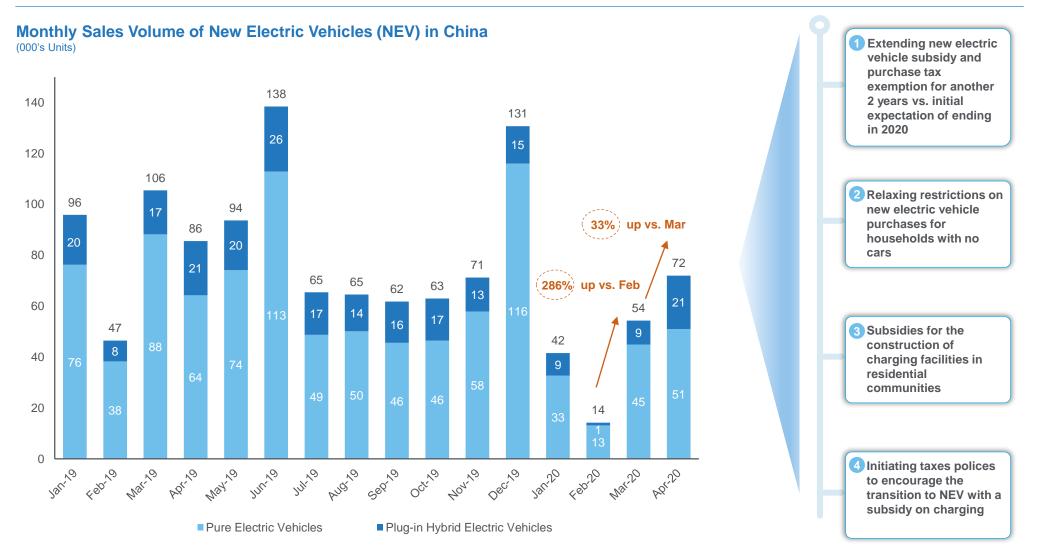
**Capacity Expansion** 

- Focus on reducing production costs and expanding capacity
- Domestic capacity expects to reach 100K ton LCE in 2020E
- Brine and clay-based capacity to increase by 100K ton LCE by 2025E



# Long-term EV Industry Prospects Remain Strong Despite COVID-19

Chinese government's favorable NEV stimulus policies and scheduled pipeline of new EV models expect to boost consumption demand and drive recovery of lithium compound prices.



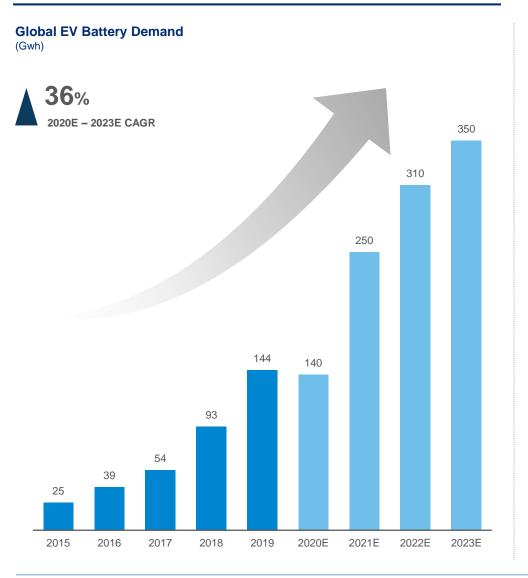
Source: Broker research



# Expected Strong End Market Demand Propelled by Transition to EV

### Global battery demand is growing rapidly, fueling capacity expansion

### **Global OEMs and Battery Producers have formed large-scale plans**



OEM / Battery Producer	Brand	Future Strategy
	VOLKSWAGEN	<ul><li>US\$40bn investment by 2022</li><li>1mm units of EV sales in 2023</li></ul>
	DAIMLER	<ul><li>US\$11bn investment by 2025</li><li>Launch 10 new EV models by 2020</li></ul>
	BMW GROUP	Launch 25 new EV models by 2025
	RENAULT NISSAN	5mm units of EV sales by 2022
EV OEMs	Ford	<ul><li>US\$11bn investment by 2022</li><li>Launch 40 EV models by 2022</li></ul>
	<u>GM</u>	<ul><li>1mm units of EV/PHEV sales by 2026</li><li>Launch 20 new EV &amp; FCEV models by 2023</li></ul>
	T	• 824,000 units of EV sales by 2025
	TOYOTA	5.5mm units of EV sales by 2030
	GEELY	• 600,000 units of EV sales by 2020
	BYD	<ul> <li>274,000 units of EV sales by 2020</li> </ul>
	LG Chem	Increase production capacity to 100 Gwh by 2020
Battery	SK	Increase production capacity to 100 Gwh by 2025
Producers	CATL	Increase production capacity to 137 Gwh by 2022
	northvolt	Increase production capacity to 150 Gwh by 2030

Source: Broker research.



### Proven Financial Track Record



153

2015A

2016A

2017A

2015A Source: Company disclosure. 2016A

2017A

269

Note: 1. ASP was calculated by dividing revenues from lithium compounds and metals segment with its sales volume 2. Adjusted EBITDA and adjusted net profit were calculated as EBITDA / net profit plus impairment loss and losses relating to Shenzhen Meibai's fire incidents, minus fair value gains from derivative financial instruments, gain on derivative financial instruments

2018A



2019A

2018A

2019A

### 1Q20 Update and 1H20 Outlook



3Q19

#### 1Q20 Update

- Revenue was RMB1.1bn, down 18.9% y-o-y:
  - COVID-19 impact on operations
  - Weak demand from end customers
  - Price of lithium compounds continues to be under pressure
- Gross profit margin dropped by 200bps from 21% to 19%
- Against the background of falling volume and ASP, Ganfeng's 1Q20 adjusted net profit was RMB97mm, down 44% y-o-y:
  - 1Q20 net profit was mainly adjusted by net fair value changes of RMB87.7mm due to decline in Pilbara share price

#### 1H20 Outlook

 Unadjusted net profit is expected to be in the range of RMB140-200mm for 1H20, down 32% to 53% from the same period in 2019

Source: Company disclosure.

1Q19

2Q19



4Q19

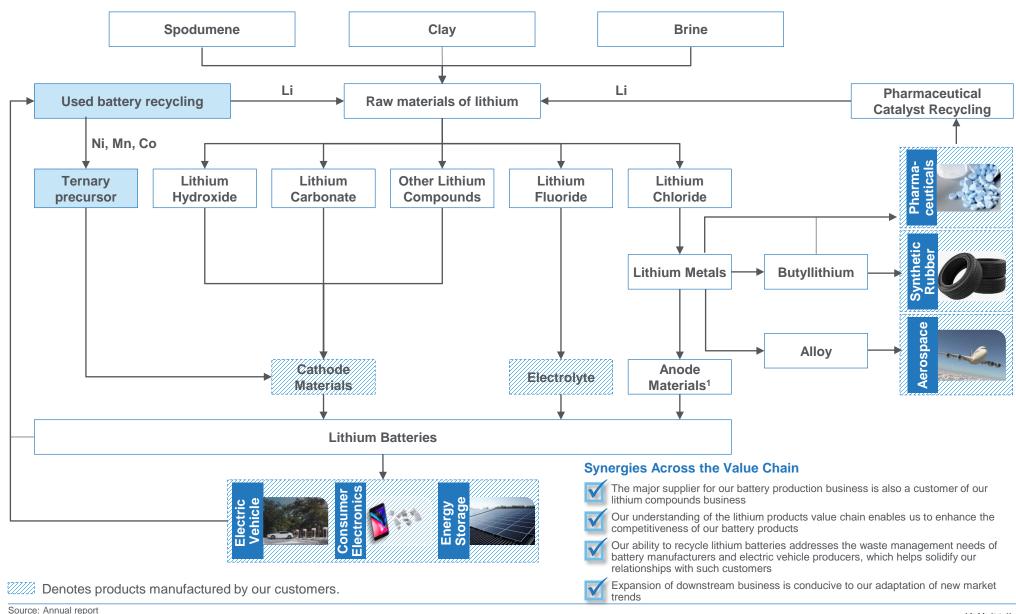
97

1Q20





### Vertically Integrated Business Model with Synergies Across the Value Chain



Note: 1. We produce anode for primary battery.





### World-leading Position in Lithium Compounds and Metals with High Barriers to Entry

### **Upstream and Midstream Segments Offer the Highest Margin**

	Upstream Resources	Lithium Compounds	Cathode Materials	Lithium Hexafluoro- phosphate	Electrolyte	Lithium Batteries
Entry Barrier	High	High	Low	Medium	Low	Medium
Capital Requirement	High	Medium	Low	Low	Low	Medium
Production Know-how	Medium	High	Low	High	Low	Medium
Clear Industry Standard	Yes	Yes	No	Yes	Yes	Yes
Access to Raw Material	Medium	Hard	Medium	Medium	Medium	Easy

#### **High Barriers to Entry Favoring Established Producers**

- Production Technologies and Know-how
- Product Development and Application Expertise
- Customer Relationships and Product Accreditation Process
- Secure Supply of Lithium Raw Materials at Competitive Cost
- Operational Integration between Resource Extraction and Compound Production
- Access to Experienced Management and Technical Personnel
- Major Capital Expenditures and Investments

#### **Indicative Development Timeline for Greenfield Spodumene Projects**

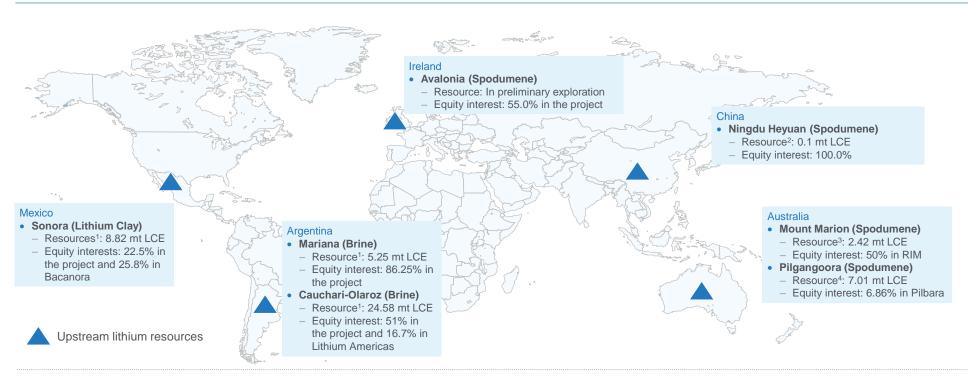


Source: CRU report.

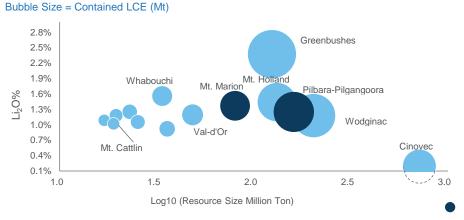




### Access to Secure, High Quality Supply of Lithium Raw Materials



### Resource Estimates for Lithium Hardrock Deposits<sup>4</sup>



### Resource Estimates for Lithium Brine Deposits<sup>4</sup>



Source: Company disclosure, CRU report.

Note: 1. Total resource is the sum of measured resource, indicated resource and inferred resource. LCE data of total spodumene resources is converted through lithium oxide resources contained in ores 2. Measured pursuant to China national standards. 3. Measured pursuant to JORC standards. 4. Including indicated and inferred resource.





### Access to Secure, High Quality Supply of Lithium Raw Materials (Cont'd)

Our upstream offtakes are sufficient to support our downstream demand and the flexible pricing mechanism provide us margin protection in tough environment.

	Reed Industrial Minerals (Mt. Marion)	Pilbara Minerals (Pilgangoora)	Altura Mining (Pilgangoora)	
Offtakes Spodumene Concentrate ("SC")	~400 kt/yr	160 kt/yr (Stage 1) [ <i>operating</i> ] 150 kt/yr (Stage 2)	70 kt/yr (Stage 1) [ <i>operating</i> ] 110 kt/yr (Stage 2)	
Term	LOM <sup>1</sup>	Stage 1: 10 years + 10 year option Stage 2: LOM	Stage 1: Dec 2020 + 10 year extension Stage 2: LOM	
Pricing	Long-term Formula Price			
LCE Equivalent <sup>2</sup>	50kt	Stage 1: 20kt Stage 2: 19kt	Stage 1: 9kt Stage 2: 14kt	

- Ganfeng's Offtake Pricing Formulas incorporate trailing (import & export carbonate and hydroxide prices)
- Spodumene concentrate pricing lags carbonate & hydroxide pricing (approx. 3-5 months)

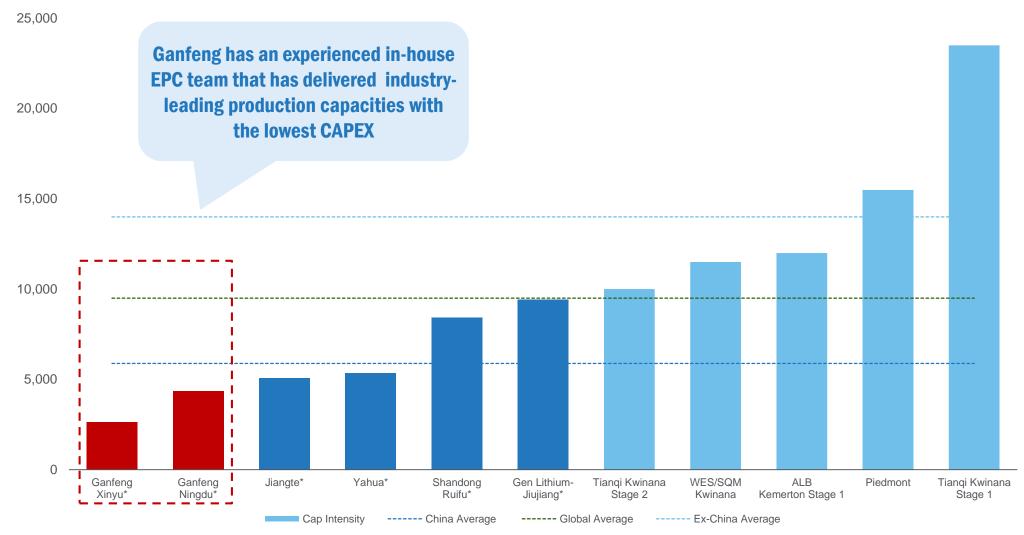






### Chemical Plant Capital Intensity





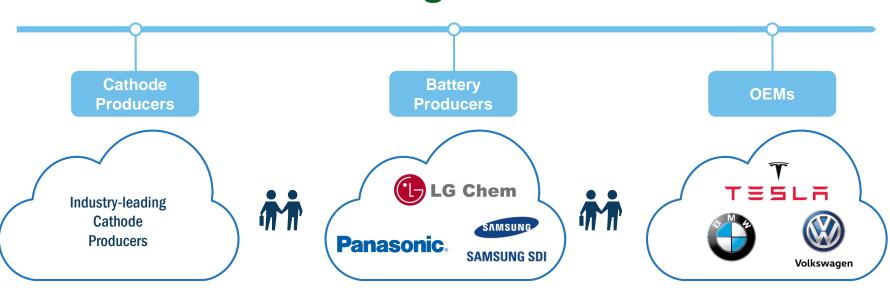
Source: Canaccord Genuity.

\* China based plants





# **GanfengLithium**



- Fixed Volume Long-term Contracts
  - Most of contracts lock down purchasing volumes from clients, providing visibility on future revenue



- Market-based Adjustable Contract Pricings
  - Help establish long-term relationships with blue-chip customers
  - Effectively track chemical pricings and stabilize margins



### Blue-chip Customer Base with High Visibility for Growing Demand (Cont'd)

8% of Global Car Sales from EV

Now





**Electric Vehicle** 

1/3
of Global Car Sales
from EV

By 2025 By

51% of Global Car Sales from EV

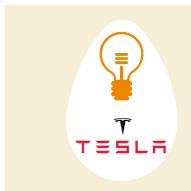




- Supplies lithium compounds to Volkswagen and its suppliers for the next ten years
  - Cooperates in battery recycling and solid-state batteries



- Provides lithium compounds to certain suppliers of BMW from 2020 to 2024
- Flexibility to extend the contract by another 3 years



- Commits 20% of its lithium hydroxide production capacity to Tesla from 2018 to 2020
- Flexibility to extend the contract by another 3 years



Continue seeking cooperation with other EV OEMs and its battery suppliers

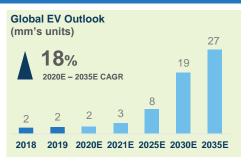
#### **Favorable Industry Outlook on Electric Vehicles**

Over the next ten years, Volkswagen will be launching **70+ new pure electric vehicles**, meaning that **a quarter** of its vehicles delivered in 2025 will be powered by **electricity** 

Expect to produce 1mm EV cars by 2023

Announced that all brands and model series to be **electrified** by 2025 and expects electrified vehicles to account for **15-25%** of its total sales

Strong performance in 1Q20 will be further strengthened by **a large ramp-up** in production from Gigafactory in Shanghai



Source: Company disclosure, broker research.





### 6 Advanced Technologies and Outstanding Research and Development

### **Outstanding Research and Development Capabilities**



361 Research and Development staff



175 patents, 5 major categories of 40+ industry leading lithium compounds and metals1



Seeking breakthroughs and actively developing next generation solid-state batteries



Undertaken 17 national level R&D projects and 31 provincial level R&D projects



Only company in China with both spodumene extraction and lithium-containing brine extraction technologies

#### **Recent Awards**









Jiangxi Province **Technological Invention Award** (Second Prize)



**China Nonferrous Metals Industry Association Scientific** and Technological **Progress Award** (Second Prize)



All-China Federation of Industry and Commerce (Second Prize)





### Visionary and Experienced Management Team with an Established Talent Pool



LI Liangbin
Chairman
President
Nearly 30 years of

industry experience

- Mr. Li, our founder, has been serving as Chairman of the Board of Directors since the incorporation of Ganfeng
- He has been serving as Vice President of the China Nonferrous Metal Industry Association, Lithium Branch
- Previously he worked at scientific research institute of Jiangxi Lithium Plant, a state-owned enterprise
- He was named "Expert with Outstanding Contribution" and was selected to join the National Talents Project in 2015
- Mr. Li was a chemistry major in college and has extensive knowledge in lithium related chemicals



WANG Xiaoshen
Vice Chairman

25+ years of industry experience

- Mr. Wang joined Ganfeng in 2006 and was appointed Vice Chairman of the Board of Directors in 2010
- He worked at China National Nonferrous Metals Industrial Xinjiang Co., Ltd., Xinjiang Lithium Salts Plant, mainly responsible for lithium business
- He obtained bachelor's degree in industrial engineering management from North China University of Technology and an EMBA from the China Europe International Business School
- As the new executive Director, he was appointed as the chairman of the Sustainable Development Committe



**DENG Zhaonan**Vice President
(Production & Operation)

10+ years of industry experience



XU Jianhua Vice President (Engineering Construction, Equipment Management)

27+ years of industry experience



SHEN Haibo Vice President (Sales & Promotion Department)

20+ years of industry experience



OUYANG Ming Vice President (Secretary of the Board)

15+ years of industry experience



YANG Manying Vice President (Finance)

20+ years of industry experience



Vice President (Production Safety & Research)

10+ years of industry experience

Source: Company disclosure.



# **Highly Integrated Business Model**

FY2019	Revenue: RMB5,246mm (USD754mm) / Adj. EBITDA: RMB1,323mm (USD190mm)						
	Lithium Compounds and Lithium Metals	Lithium Batteries	Others				
Key Financials	Revenue: RMB4,151mm/USD649mm Gross Profit: RMB1,091mm/USD157mm Gross Margin: 26%	Revenue: RMB603mm/USD87mm Gross Profit: RMB79m/USD11mm Gross Margin: 13%	Revenue: RMB491mm/USD71mm Gross Profit: RMB68mm/USD10mm Gross Margin: 14%				
Operational Footprint	<ul> <li>Xinyu Basic Lithium Plant (Jiangxi)</li> <li>Specialty Lithium Plant (Jiangxi)</li> <li>Ningdu Ganfeng (Jiangxi)</li> <li>Fengxin Ganfeng Lithium Plant (Jiangxi)</li> <li>Yichun Ganfeng Lithium Plant (Jiangxi)</li> </ul>	<ul> <li>Dongguan Ganfeng Battery Plant (Guangdong)</li> <li>Ganfeng Lithium Power Battery Plant (Jiangxi)</li> <li>Ganfeng Electronics (Jiangxi)</li> <li>Zhejiang Fengli (Jiangxi)</li> <li>Jiangsu Ganfeng (Jiangsu)</li> </ul>	Ganfeng Recycling Technology (Jiangxi)				
	Manufacture and sale of lithium products, and rendering of processing services     Lithium compounds mainly includes (1) battery-grade lithium	<ul> <li>Manufacture and sale of lithium batteries</li> <li>Produces lithium-ion batteries, mainly from a majority of anodes materials, cathodes</li> </ul>	Exploration and sale of lithium ore and other lithium products     Lithium battery recycling:				

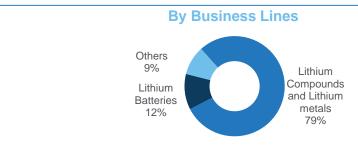
#### **Segment** Overview

- hydroxide; (2) battery-grade lithium carbonate; (3) lithium chloride; and (4) lithium fluoride
- Lithium metals are mainly used (1) as lithium battery anode materials; (2) as pharmaceutical catalysts; and (3) in alloys and other industrial product materials
- materials and electrolyte solutions sourced from its customers of the lithium compounds business segment
- · Developing technologies for solid-state lithium batteries

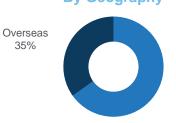
35%

Launched in 2017 to meet growing demand for retired battery management due to rising electric vehicle sales

Revenue **Breakdown** 



### By Geography



Mainland China 65%

Source: Company disclosure. RMB / USD = 6.962. (US Federal Reserve)

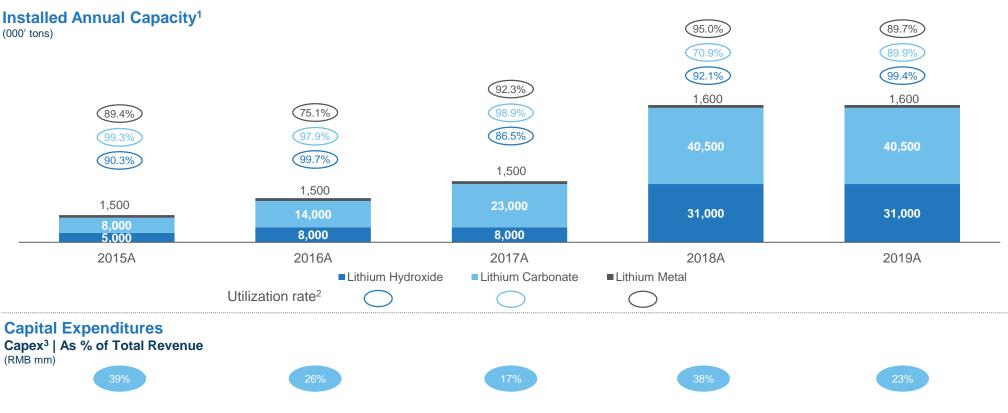


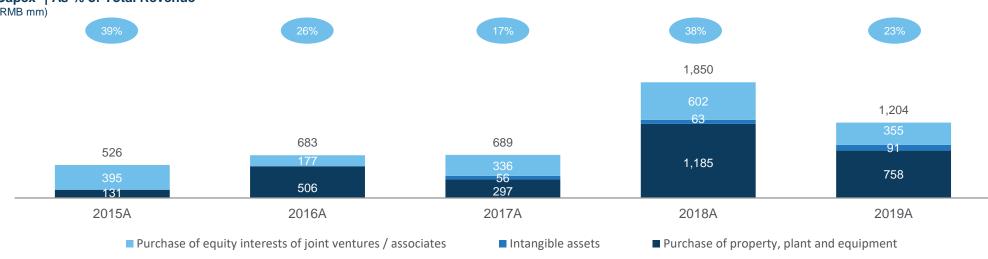
# **Our Worldwide Operations**





# Capacity and Production Growth





Source: Company disclosure.

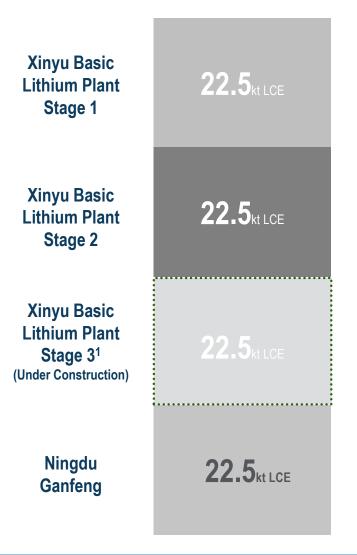
Note: 1. Based on the changing situation of lithium carbonate market, the Company made the best advantage of flexible production line, deliberately reduced the production of lithium carbonate in 2018 and 2019, and increased the production of lithium hydroxide at the same time. 2. Utilization rates based on effective annual capacity. 3. Purchase of property, plant and equipment includes increase of prepaid land lease payments.



# Spodumene-Based Capacity By 2020

#### **Fronted Ore Processing Capacities**

#### **Backend Lithium Compounds Capacities**







Source: Company disclosure. Capacity expected for 2020E

Note: 1. Expects to be operational in 2020. 2. Ningdu Ganfeng is using 4% Spodumene concentrate.

### Disclaimer

This document has been prepared by Ganfeng Lithium Co., Ltd. (the "Company" or "us") for a limited number of recipients and for information purposes only and not for public dissemination. You and your directors, officers, employees, agents and affiliates must hold this document and any oral information provided in connection with this document in strict confidence and may not communicate, reproduce, distribute or disclose it to any other person, or refer to it publicly, in whole or in part at any time except with our prior written consent.

The information in this document has not been independently verified and is not intended to form the basis of any investment decision. The contents of this document have not been reviewed by any regulatory authority in any jurisdiction. The distribution of this document in certain jurisdictions may be restricted by law, and the recipients into whose possession this document comes should inform themselves about, and observe such restrictions. This document does not purport to provide a complete description of the matters to which it relates. This document does not purport to be comprehensive or to contain all the information that a recipient may need in order to evaluate the Company. No reliance shall be made in relation to the information contained in this document. No representation, warranty or undertaking, express or implied, is or will be made in, or in relation to, and no responsibility or liability (including, without limitation, any liability in negligence) is or will be accepted by us or our affiliates, or our officers, employees or agents, as to, or in relation to, this document or the accuracy, fairness, reasonableness, correctness, or completeness of the information contained herein or any other information, whether written or oral, made available to any interested party or its advisers and any liability therefore is hereby expressly disclaimed. In particular, but without limitation, no representation or warranty is given as to the achievement or reasonableness of, and no reliance should be placed on, any assumptions, projections, targets, estimates or forecasts contained in this document. In all cases, interested parties should conduct their own investigation and analysis of the Company and the data contained in this document. Only those representations and warranties contained in a definitive agreement shall have any legal effect. By preparing this document, none of us or our affiliates, or our officers, employees or agents undertakes any obligation to provide the recipient with access to any addit

This document may contain statements that reflect the Company's current beliefs and expectations about the future as of the respective dates indicated herein. These forward-looking statements, if applicable, are based on a number of assumptions about the Company's operations and factors beyond the Company's control and are subject to significant risks and uncertainties, and, accordingly, actual results may differ materially from these forward-looking statements. These forward-looking statements are not a guarantee of future performance. Accordingly, you should not place undue reliance on any forward-looking information. Each of the Company and its affiliates, controlling persons, directors, officers, partners, employees, agents, representatives or advisers of any of the foregoing assumes no obligation to update or otherwise revise these forward-looking statements for new information, events or circumstances that occur subsequent to such dates. This document does not create an obligation on the Company or any of its affiliates to consider any offer.

This document does not constitute or form part of, and should not be construed as, an offer to sell or issue or a solicitation of an offer to purchase or subscribe any securities nor shall there be any sale of such securities in any state or country in which such offer, solicitation or sale would be unlawful prior to registration or qualification or deal would be unlawful prior to registration or qualification or deal would be unlawful prior to registration or qualification of the United States and may not be offered or sold within the United States, except pursuant to a registered offering in compliance with or pursuant to an exemption from, or in a transaction not subject to, the registration requirements of the US Securities Act and the applicable securities laws of any state or other jurisdiction of the United States. There will be no public offer of the Company's securities in the United States. In Hong Kong, no securities of the Company may be offered to the public unless a prospectus in connection with the offering for sale or subscription of such securities has been authorized by The Stock Exchange of Hong Kong Limited for registration by the Registrar of Companies in Hong Kong under the provisions of the Companies (Winding Up and Miscellaneous Provisions) Ordinance (Cap.32 of the Laws of Hong Kong) (the "Companies Ordinance"), and has been so registered. This document contains no information or material which may result in it being deemed (1) to be a prospectus within the meaning of section 38B of the Companies Ordinance or an advertisement in relation to a prospectus or proposed prospectus or extract from or abridged version of a prospectus within the meaning of section 38B of the Companies Ordinance or an advertisement, invitation or document containing an advertisement or invitation falling within the meaning of section 103 of the Securities and Futures Ordinance (Chapter 571 of the Laws of Hong Kong) (the "Securities and Futures Ordinance") or (2) in Hong Kong to have effected an offer to the publi

You acknowledge and represent to us and our affiliates, our officers, employees and agents, that you are a professional investor, have the knowledge, experience and capability to conduct your own assessment of the Company and its securities and that you have conducted and will conduct your own investigation with respect to the Company and its securities and have obtained or will obtain your own independent advice relating to any investment in the securities of the Company.

By accepting this document or the information contained herein, you are deemed to represent to us, and our affiliates, our officers, employees and agents, that you are and any person you are representing, if any, (i) a professional investor as defined in the Securities and Future Ordinance, (ii) (a) a person outside the United States within the meaning of Regulation S under the US Securities Act, or (b) a qualified institutional buyer as defined in Rule 144A under the US Securities Act.

Neither this document nor any copy of it may be taken or transmitted into or distributed, directly or indirectly, in the United States. Neither this Document nor any copy of it may be taken or transmitted into Canada or distributed or redistributed in Japan or to any resident thereof. Upon request, the recipient will promptly return this Document and all information made available in connection with the proposed investment, without retaining any copies. By accessing this document, you are agreeing (i) that you have read and agree to comply with the contents of this notice and disclaimer and (ii) to maintain absolute confidentiality regarding the information disclosed in this document.

