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#### **Competent Persons**

The information in this report that relates to Mineral Resources is based on information compiled by Mr. Robert Spiers who is a full time employee of Hellman & Schofield Pty Ltd and who is a Member of the Australian Institute of Geoscientists. Mr. Spiers has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity he is undertaking to qualify as a Competent Person as defined in the 2004 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr. Spiers consents to the inclusion in this report of the matters based on his information in the form and context in which it appears.

The information in this report that relates to Mineral Ore Reserves is based on information compiled by Mr. Roselt Croeser who is a full time employee of Croeser Pty Ltd. Mr. Croeser has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity he is undertaking to qualify as a Competent Person as defined in the 2004 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr. Croeser consents to the inclusion in this report of the matters based on his information in the form and context in which it appears.

The information in this report that relates to Exploration Results, including exploration data and geological interpretations is based on information compiled by Mr Philip Tornatora who is a full time employee of the Company and who is a Member of the Australasian Institute of Mining and Metallurgy and the Australian Institute of Geoscientists. Mr. Tornatora has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity he is undertaking to qualify as a Competent Person as defined in the 2004 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr. Tornatora consents to the inclusion in this report of the matters based on his information in the form and context in which it appears.

#### James Bay Competent Person

The mineral resources are reported in accordance with National Instrument 43-101 and have been estimated in conformity with generally accepted CIM "Estimation of Mineral Resource and Mineral Reserves Best Practices" guidelines. Resource evaluation work was completed by Mr. Sébastien Bernier, P.Geo (OGQ#1034, APGO#1847) an independent Qualified Person as defined by NI 43-101.

#### LITHIUM POWER



**Endurance** Lithium Ion Battery Energy: Watt-Hours/Kg Nickel Metal Hydride Battery Nickel Cadmium Battery Lead Acid Battery **Acceleration** 

Lighter
Longer Life
Energy Density
Environment
EV Revolution
US\$11b → US\$43b ('20)

Power per Kilogram (kg)

#### INVESTMENT OVERVIEW





- Lithium Pure Play
- Downstream Integration Value Add
- Resource, Chemical, Battery
- Operating mine and ore resources Australia / Canada
- ◆ Lithium Carbonate chemical facility in China
- Lithium battery project in China

#### **INTEGRATION & VALUE ADD**

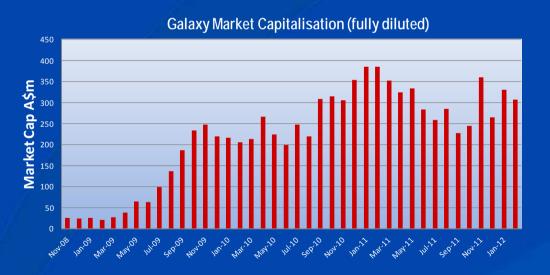




#### **CORPORATE STRUCTURE**



- Registered in Australia and listed on ASX
- Member of the S&P/ASX300 company



Capital Structure	
Shares on issue	323 m
Options on issue	52 m
Share price (as of 3 Mar 12)	A\$0.84
Undiluted market capitalization	A\$270m
Diluted market capitalization	A\$375m

Substantial Shareholders	
Creat Resources	11.0%
M & G Group	9.0%
Fengli Group	7.0%

Substantial Investor	
Li Shu Fu (Geely Motors)	A\$30m

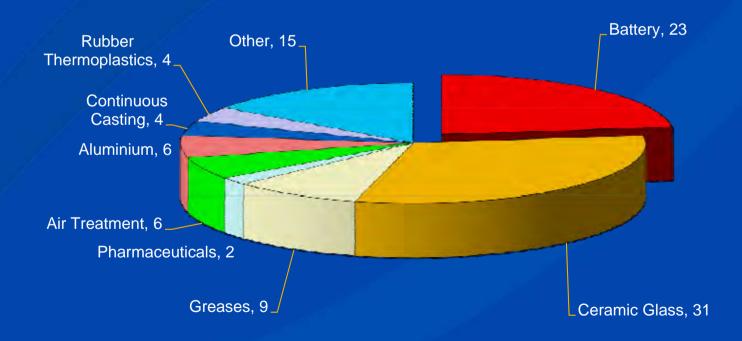


## **INDUSTRY OVERVIEW**

#### LITHIUM CONSUMPTION - BY END USE

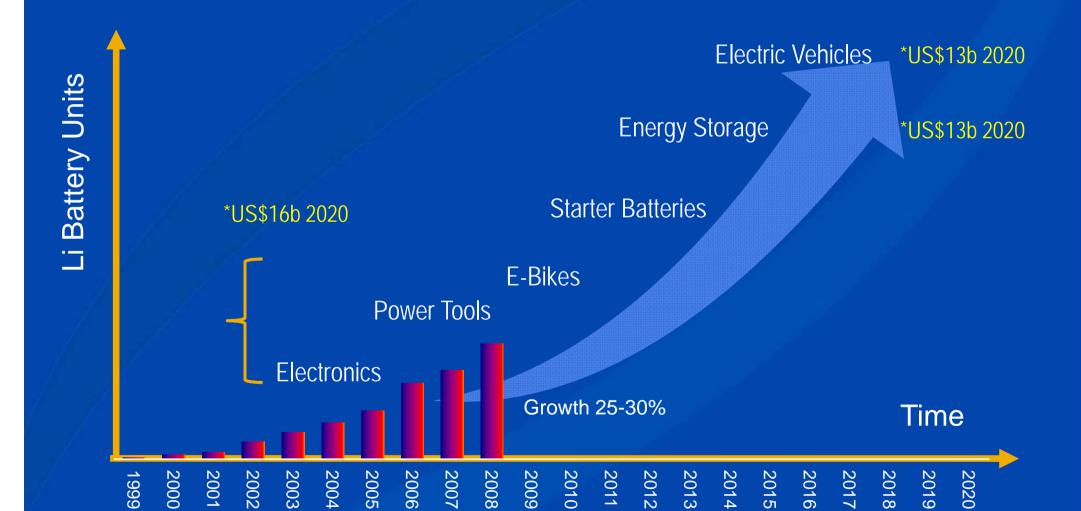


Estimated Consumption of Lithium by end use 2011 (est. 130,000 tons LCE) up 10%



#### **GROWTH IN OTHER AREAS BEFORE EVs**

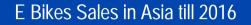


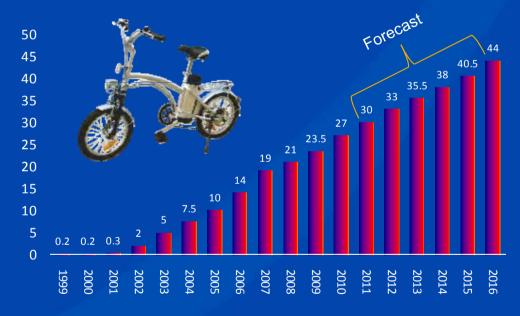


#### FOCUS ON THE E-BIKE MARKET



- China produces 27 m E-Bikes pa
- 97% heavy lead acid batteries
- PRC weight restrictions
- 1,000 lead plants shutdown
- Mass conversion to Li Batteries





#### PRESSURE ON LEAD BATTERIES





#### CHINA MACRO STRATEGY



- China Less reliance on oil based transport system
- Twelve 5 Year Plan Low Carbon Economy
- 5m EVs by 2020 (13.6 mil vehicles pa)
- 50% ownership of EVs & Hybrids by 2030
- Beijing Initiatives will drive EV demand
- "Mass energy storage" key to China's strategy
- China targeting 20% from renewable source by 2020
- China 1.6 MW of wind power installed every hour

#### **GLOBAL LITHIUM FORECAST**







#### 350000 Batteries for E2WVs Lithium Demand (MTLCE) CAGR 2011-2025 = 7.4% 2011 ■Batteries for HEV/PHEV/EV 300000 2015 ■Batteries for Portable Devices 2020 187.000 Other Applications 2025 288,000 250000 200000 150000 100000 50000 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025

#### **FMC Corp Forecast**

World Lithium Supply Conference 2011 Toronto

2-3 times Demand Increase by 2020

#### Signom Box Forecast

World Lithium Supply Conference 2011 **Toronto** 

#### **PRICES**



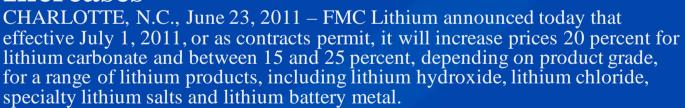
06/16/2011



# Chemetall lithium division announces global price increases

Chemetall lithium division is announcing price increases of up to 20 percent for its lithium salts, including lithium carbonate, lithium hydroxide, lithium chloride, and increases on lithium metal battery grade, effective July 1.

# FMC Lithium Announces Global Price Increases



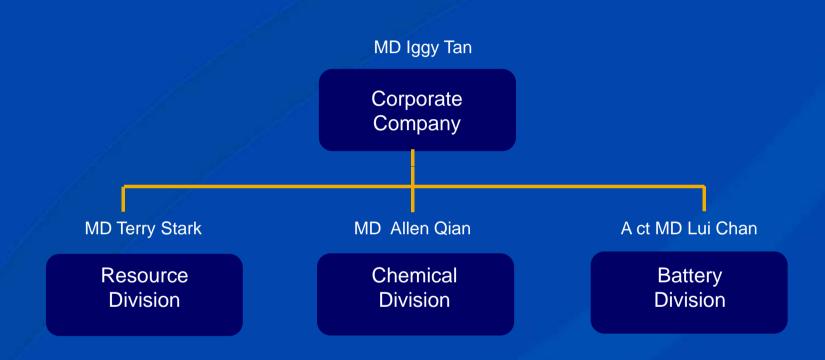
TALISON LITHIUM CONCLUDES FIRST SALES CONTRACTS FOR 2012 WITH 15% PRICE INCREASE



# GALAXY'S BUSINESS RESOURCE, CHEMICAL, BATTERY

#### **BUSINESS DIVISIONS**





Wesfarmer's style business structure allows Galaxy to manage diverse business units



## **RESOURCE DIVISION**



#### MT CATTLIN MINE



- Mt Cattlin commenced late 2010
- Record construction of <11 months</p>
- Project on time and on budget (A\$80m)
- Ramp up continues
- Produced 63,853 t spodumene in 2011
- Three shipments during the year
- Sales of Ta concentrate



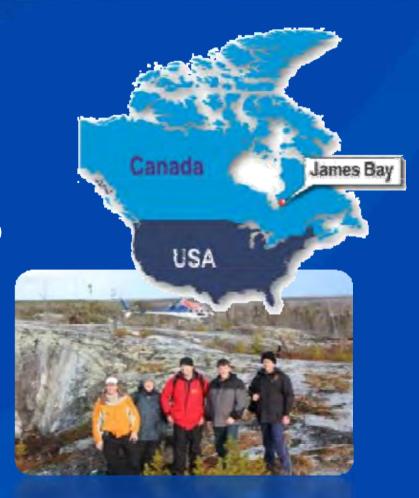




#### JAMES BAY SPODUMENE JV



- Building our lithium footprint
- Joint venture with Lithium One Inc.
- Own 20% with farm in to 70%
- Resource of 22 mt @ 1.28% Li20 \*
- Similar coarse grained pegmatite ore type to Mt Cattlin
- Similar design plans and DFS



Resource	Tonnes	Li <sub>2</sub> O %
Indicated	11,750,000	1.30%
Inferred	10,470,000	1.20%
TOTAL	22,220,000	1.28%





## CHEMICAL DIVISION

#### MARKET SEGMENTATION





#### **TOTAL LITHIUM INDUSTRY - CHINA 2011**





#### JIANGSU PLANT IS STRATEGICALLY LOCATED





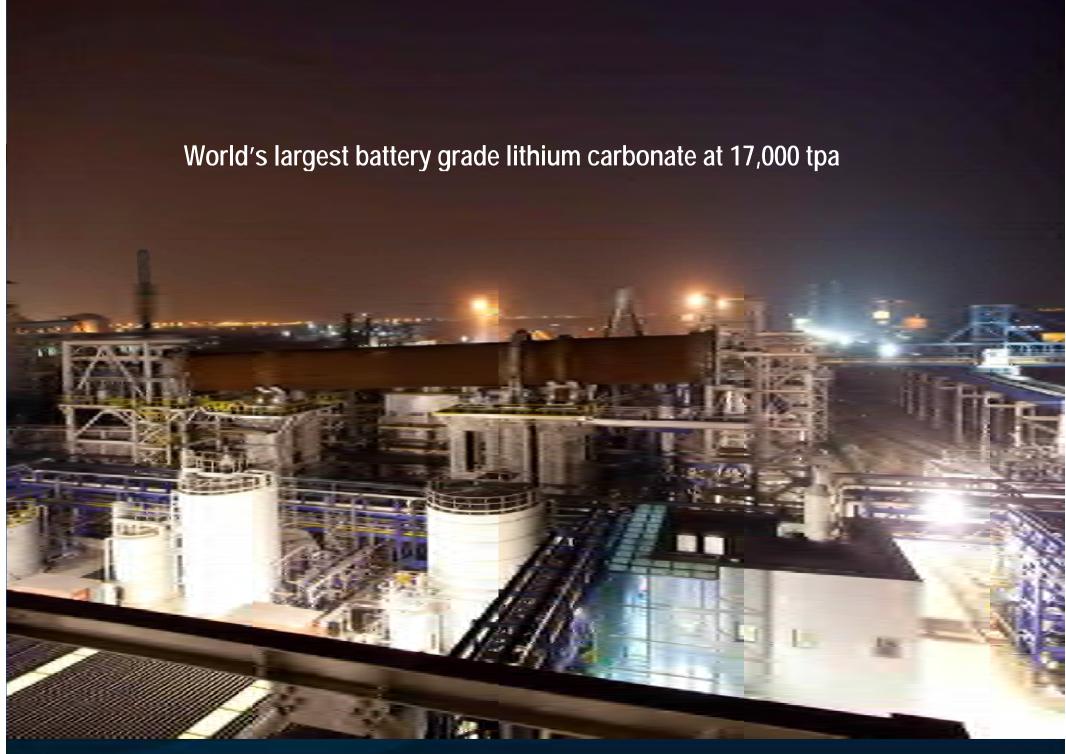
- Zhangjiagang Free Trade Zone
- Galaxy owns 100%
- 120 top foreign companies
- Chemical Industrial Park
- Adjacent to a wharf
- Supply of sulfuric acid and soda ash
- Close to markets

#### JIANGSU LITHIUM CARBONATE PLANT





- Focus lithium-ion battery industry
- Continuous production technology
- Highly process controlled
- Capital cost of US\$100 m
- Capability 99.9% purity and above
- Mechanical completion achieved in early Dec 2011
- Cold commissioning 2 months
- Hot commissioning
- Plant opening 7 March 2012
- First product in first quarter 2012







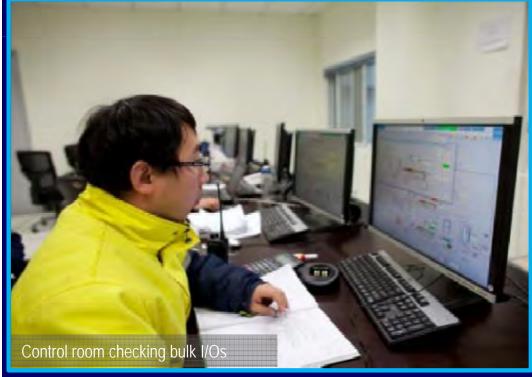
















































#### OFFTAKE FRAMEWORK AGREEMENTS



- Offtake framework agreements for 17,000 tpa
- Mitsubishi exclusive distributer in Japan (5,000 tpa)
- ◆ 13 major lithium cathode producers in China (12,000 tpa)
- Fixed annual volumes
- Price agreed on a quarterly basis
- Minimum of 99.5% purity















# **BATTERY DIVISION**

### CHINA'S LITHIUM BATTERY INDUSTRY





- Thousands of small medium factories
- High labour assembly lines
- Cheap low quality raw materials
- Prone to quality inconsistencies
- High defect rates affecting life of batteries
- All trying to do their own R&D
- Cannot compete with Japanese & Korean batteries

#### **GALAXY'S APPROACH**





- Feasibility study completed
  - "Turn key" equipment supplied by KUBT (Korea)
  - Full automation extremely low reject rates
  - Suppliers of Samsung and LG Chem
  - ★ K2 Energy US lithium battery partner
  - Leap frog R&D
  - 620,000 battery packs
- More stable Lithium Iron Phosphate batteries

### STATUS OF PROJECT





- Off-take framework of 80% capacity achieved to date
- Interest from Chinese banks to fund project
- Term sheets received by 3 major banks
- Environmental approval completed
- Safety approval in progress
- Land secured
- Board yet to make final decision
- May consider a strong JV partner

### INTERNATIONAL PARTNERS





Owner
Galaxy Resources
Australia





Technology Partner K2 Energy Solutions USA



Turn Key Partner KOBET Consortium Korea



EPCM Manager M+W Group Germany



Plant Location Zhangjiagang China



### **K2 ENERGY PARTNERSHIP**



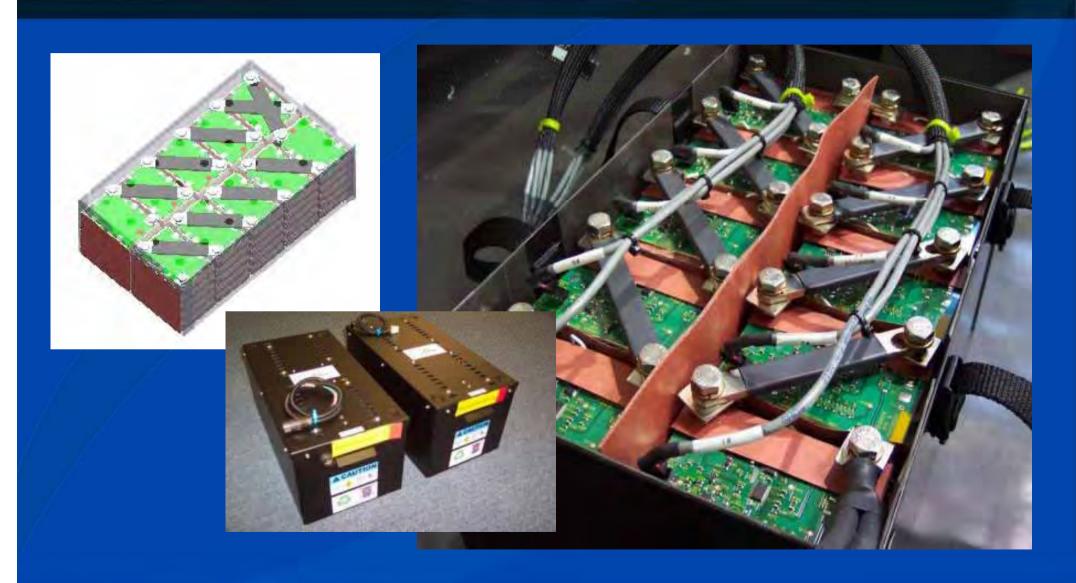
- Established US lithium battery producer
- License to use all K2 Energy's technology
- K2 provides recipe, expertise, commissioning support
- Highest energy densities of any LFP products on the market
- Intellectual property



Table 1 - Energy Density (Wh/I)				
Battery type	K2	Comp 1	Comp 2	Comp 3
18650 E	290		261	213
18650 P	242	220		
26650 P	241	220	223	
26650 EV	297			

# EXPERIENCE IN LARGE FORMAT BATTERIES











Typical KUBT mixer



KUBT coating and drying machinery



KUBT rolling and slitting machinery





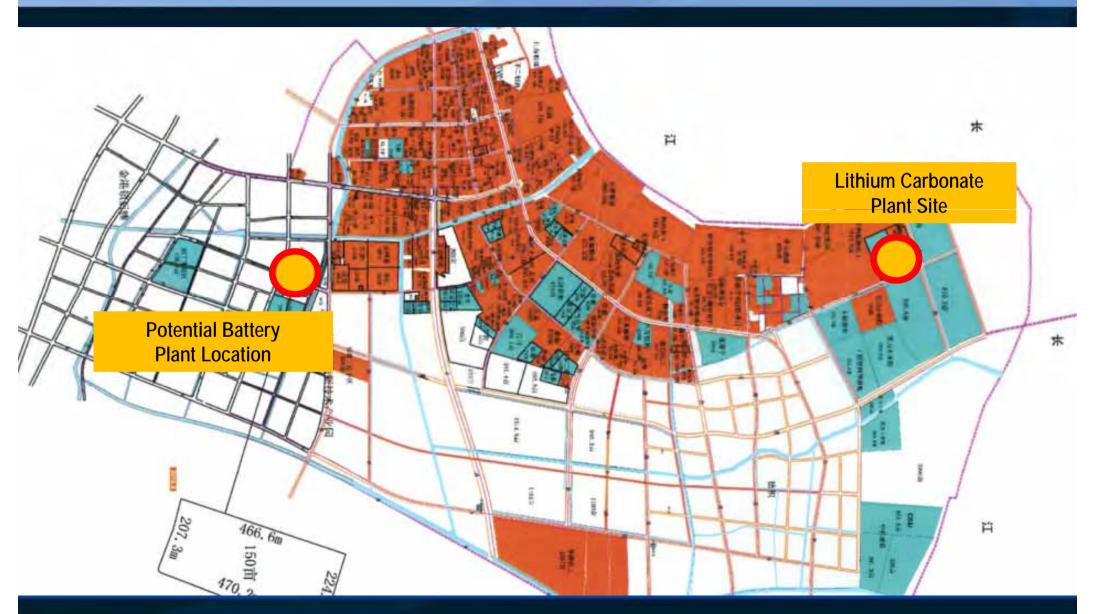
KUBT rolling and slitting machinery



KUBT separator formation machinery

## SITE SECURED





## **UPDATED FEASIBILITY STUDY**



Production Rate (packs pa)	620,00	
Capital Costs	A\$ 142 million	
Revenue pa	A\$142 million	
Ave Net Cash (pre tax) pa ^	A\$ 68 million	
Net Present Value NPV (non-geared, real @10%) ^	A\$ 365 million	
Internal rate of Return IRR%	43%	





"SECURITY OF SUPPLY FOR CHINA GROWTH"