



# ASX Announcement

16 April 2015

## COMPANY DETAILS

**ABN:** 29 126 129 413

### PRINCIPAL AND REGISTERED OFFICE

Cobre Montana NL  
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**ASX CODE:** CXB

## CORPORATE INFORMATION

(16 April 2015)  
116M Ordinary Shares  
50M Contributing Partly Paid Shares  
12M Unlisted Options

## BOARD OF DIRECTORS

**Eduardo Valenzuela**  
(Non-Executive Chairman)  
**Adrian Griffin**  
(Managing Director)  
**Bryan Dixon**  
(Non-Executive Director)

### For further information contact:

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## Cobre Montana (ASX:CXB) produces first battery-grade lithium carbonate from Czech Republic project

### HIGHLIGHTS

- First battery-grade lithium carbonate produced from Cinovec project in Czech Republic
- Carbonate purity exceeds 99.5%
- Is second such project breakthrough for Cobre Montana
- Adds to same carbonate success at Lepidolite Hill near Coolgardie in WA
- Cinovec achieved leach recoveries of 92%
- Cinovec leach residence time of 18 hours
- Czech tests included successful recovery of potassium sulphate by-product
- Prelude to a positive Cinovec scoping study

### Second success for Cobre Montana's lithium extraction testwork

Australian lithium developer, Cobre Montana NL (ASX: CXB) is pleased to announce its first breakthrough in producing battery-grade lithium carbonate from the Company's test work on the Cinovec lithium project in the northwest of the Czech Republic. It is the second such lithium carbonate success for the Perth-based developer. Cobre Montana last year produced similar battery grade lithium carbonates from its Lepidolite Hill project, 15 kilometres south of Coolgardie in Western Australia. The new Czech results, which included leaching and chemical extraction processes, were achieved by Cobre Montana on a 50kg sample of ore from the Cinovec deposit. The test work is part of the Company's growth strategy to develop disruptive lithium extraction technology that has the potential to produce lithium carbonate from specific types of hard-rock deposits at estimated operating costs comparable with the world's cheapest lithium carbonate producers.

The concentrate feed grade and subsequent lithium carbonate grade is reported as follows:

Lithium Concentrate Grade								
Li <sub>2</sub> O	K <sub>2</sub> O	CaO	Al <sub>2</sub> O <sub>3</sub>	FeO	MgO	S	Rb	Cs
%	%	%	%	%	ppm	ppm	ppm	ppm
1.81	7.41	1.57	19.3	6.91	367	740	6671	222

Lithium Carbonate Grade												
Li <sub>2</sub> O	K <sub>2</sub> O	CaO	Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	FeO	MgO	S	P	As	Co	Rb	Cs
%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
40.3	176	57	ND	87	ND	67	1581	162	ND	ND	24	ND

ND – not detected

The lithium carbonate purity exceeds 99.5%

Potassium was also recovered as K<sub>2</sub>SO<sub>4</sub> a valuable by-product with direct application as fertiliser.

Technology used for the extraction process was provided under license to Cobre Montana by Perth based Strategic Metallurgy P/L.

The successful Czech lithium carbonate production tests were undertaken on lithium mica concentrates recovered from the European Metals Holdings Limited (ASX:EMH)-owned Cinovec deposit. Cinovec is an historic tin/tungsten mine which hosts one of the world's most significant hard-rock lithium inventories ([ASX release 10 February 2015](#)) including:

- *Inferred Li Resource of 5.5Mt LCE\*, 514.8Mt @ 0.43% Li<sub>2</sub>O (0.1% Li cut-off); and*
- *Additional Exploration Target of 3.4-5.3Mt LCE, 350-450Mt @ 0.39-0.47% Li<sub>2</sub>O*

\*LCE = lithium carbonate equivalent, a common measure for reporting lithium production and demand. LCE = Li<sub>2</sub>O% x 2.473.

### Scoping Study

The commercial implications of the latest lithium results will be included in the European Metals' scoping study, due for imminent release. The scoping study model will combine the conventional tin and tungsten mining and recovery investigations with Cobre's lithium extraction from the tailings discharge of the proposed tin/tungsten mining operations.

### Commercial Development Proposal

In accordance with the terms of agreement between Cobre and European Metals ([ASX announcement 15 December 2014](#)) Cobre will provide European Metals with a commercial development proposal to process the lithium bearing micas. That proposal is currently in preparation.

### Implications for further development: Cobre Montana Managing Director, Mr Adrian Griffin:

*"Successful recovery of lithium from micas, as battery grade lithium carbonate, from two localities, Cinovec and Lepidolite Hill ([ASX announcement 27 October 2014](#)) demonstrate the robust nature of the process. Cost estimates for producing the lithium carbonate from a mica concentrate are sub US\$2,000 per tonne of carbonate produced, after by-product credits. With a suitable source of lithium mica, this process may prove to be competitive with the lowest cost producers, primarily those producing lithium carbonate from brine deposits in South America."*

### Resource opportunities

Cobre Montana will continue its global evaluation of lithium mica occurrences and utilise its exclusive licensing arrangements ([ASX announcement 11 November 2014](#)) to gain the best leverage by applying this disruptive technology to deposits previously neglected as feed for the production of lithium chemicals

### ABOUT COBRE MONTANA

Cobre has technical alliance with Strategic Metallurgy P/L to commercialize disruptive lithium extraction technology based on the recovery of lithium from micas; minerals not generally used as a source of lithium.

Cobre Montana has a strategic alliance with European Metals Holdings Limited to investigate lithium mineralisation at Cinovec in the Czech Republic, where abundant lithium micas constitute one of the largest hard-rock lithium occurrences.

Cobre Montana NL (ASX:CXB) has strategic alliances with Pilbara Minerals Limited, Focus Minerals Limited and Tungsten Mining NL, to investigate lithium and rare metals in prospective locations of Western Australia close to well-developed infrastructure. Cobre also has lithium exploration assets near Ravensthorpe, Western Australia.

### MEDIA CONTACT:

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