



## Metals Despatch

Newsletter of the International Metals Study Groups

November 2010, Issue No. 10

### LEAD AND ZINC FORECAST

The outlook for World supply and demand for lead and zinc was presented during the ILZSG 55<sup>th</sup> Session held in Lisbon on 7 October 2010. Highlights include:

- **The global usage of refined lead metal** is expected to increase by 4.5% to 9.02 million tonnes in 2010 and by a further 5.8% to 9.55 million tonnes in 2011. In China, an increase of 4.1% in usage is anticipated in 2010, the lowest in recent years. In 2011, apparent demand is predicted to grow by 9%.
- **Global lead mine production** is forecast to increase by 7.1% to 4.11 million tonnes in 2010 and 4.5% to 4.29 million tonnes in 2011 due to increased production in Australia, China, India Mexico and Russia.
- **Global production of refined lead metal** in 2010 is expected to increase by 4.5% to 9.11 million tonnes. In 2011 a further rise of 5.8% to 9.64 million tonnes is expected due to higher output in Australia, India, Mexico and China.
- The latest **forecast** is for the global supply of refined lead metal to exceed demand by about 90,000 tonnes in both 2010 and 2011.

- **Global zinc usage** is forecast to rise by 13.1% in 2010 to 12.3 million tonnes due partly to a strong recovery in Europe of 23.7%. Chinese demand is expected to grow 10.6%. Increased demand is expected in Brazil, India, Japan, Mexico and the United States. In 2011, a further rise in global demand of 6.3% to 13.07 million tonnes is expected with 8.8% growth in China, 5.2% in Europe and 4.3% in the United States.
- **Global zinc mine output** is forecast to increase 10.7% to 12.51 million tonnes in 2010, due largely to a 24% growth in Chinese production. Expansion of production is expected in Mexico, Australia, Brazil, China, India, Kazakhstan and the Russian Federation. In 2011, global production is anticipated to grow 6.6% to 13.33 million tonnes.
- **Global refined zinc production** is forecast to rise 10.9% to 12.53 million tonnes in 2010, in part as a result of the restart of production closed or cut back in 2009. Adding to production will be a rise in output in China of 14.3% and the opening of a new refinery in India. In 2011, refined zinc output is predicted to rise 5.6% to 13.23 million tonnes.
- The latest **forecasts** supplied by the Group's member countries indicate that global supply of refined zinc metal will exceed demand by 233,000 tonnes in 2010 and 161,000 tonnes in 2011.

For further details of the outcomes of the ILZSG meetings or questions on the market outlook please email Paul White at [paul\\_white@ilzsg.org](mailto:paul_white@ilzsg.org)

### NEXT STUDY GROUPS' MEETING DATES

The dates for the next International Study Groups' meetings are:

**INSG: 11-12 April 2011, Lisbon, Portugal**

**ILZSG: 13 April 2011, Lisbon, Portugal**

**ICSG: 14-15 April 2011, Lisbon, Portugal**

**Joint Seminar 2:00 pm on 13 April 2011:  
"Materials Stewardship for Mining and Metals" Lisbon**

### Contents in This Issue

Lead and Zinc Forecasts - Page 1  
Upcoming 2011 Meetings Schedule - Page 1  
Copper Forecasts - Page 2  
Nickel Forecast - Page 2  
ILZSG/INSG Joint Seminar - Page 2  
INSG Meeting Report - Page 3  
ILZSG Meeting Report - Page 3  
ICSG Meeting Report - Page 4  
News Updates - Page 5  
Forthcoming Events - Page 6  
Study Groups' Publications - Pages 7 to 9

## COPPER FORECAST

During the 36<sup>th</sup> Regular Meeting of the International Copper Study Group Statistical Committee in Antofagasta, Chile on 28 September 2010 member countries reviewed the current outlook for trends in World supply and demand for copper during 2010 and 2011 and issued the following forecast:

- Global **refined copper usage** is forecast to increase by 3.8% in 2010 to 18.9 million tonnes (Mt) mainly driven by a recovery in Japan, the EU and the United States. In 2011, usage is expected to increase in all major world markets, rising about 4.5% to 19.7 Mt.
- Operational constraints and cutbacks combined to constrain **global mine production** in 2010 that is expected to rise by only 2% to 16.2 Mt. An improvement is foreseen for 2011 with mine output forecasted to increase 5% to 17.1 Mt.
- Global **refined copper production** in 2010 is predicted to increase by about 4.0% to 19.1 Mt (a recovery from low 2009 levels) and expand by only 1% in 2011 to 19.3 Mt, as a shortage of concentrates, based on projected adjusted mine production, is expected to restrain growth.
- ICSG anticipates that the **refined copper market balance** could show a surplus in 2010 of around 200,000 tonnes and show a deficit of around 400,000 tonnes in 2011.

For further details of the outcomes of the ICSG meetings or questions on the market outlook please e-mail ICSG Chief Statistician Ana Rebelo at [rebelo@icsg.org](mailto:rebelo@icsg.org)



Nickel Bullion

## NICKEL FORECAST

The International Nickel Study Group (INSG) met on 5-6 October 2010 in Lisbon and reviewed the current outlook and trends in World nickel supply and demand. The following forecast was issued:

- Global **primary nickel usage** (consumption) was 1.24 Mt in 2009 and is estimated to have

increased to 1.43 Mt in 2010. For 2011 a further increase to 1.53 Mt is expected.

- World **primary refined nickel production** was 1.35 Mt in 2009, and expected to grow to 1.43 Mt in 2010. In 2011 production is anticipated to increase to 1.61 Mt. The 2011 figure does not include any adjustment factor for possible production disruptions.
- INSG members also discussed **market trends** and noted that, while world primary nickel usage in 2009 started off extremely weak, a recovery was evident in the second half of the year when stainless steel production improved in many markets. Nickel demand and usage accelerated in the first part of 2010, with stainless steel production increases experienced in most parts of the world. This resulted in higher primary nickel prices and high demand for secondary nickel units, such as stainless steel scrap. A slower improvement is anticipated in the second half of 2010 and into 2011.

INSG recognizes that the global economic crisis has eased, but that there is still a degree of uncertainty in the global market and its impacts on both the supply and demand for nickel are not fully known. The Study Group cautions that future market developments could alter the forward-looking market balance.

For further details of the outcomes of the INSG meetings or questions on the market outlook please email Sven Tollin at [sven.tollin@insg.org](mailto:sven.tollin@insg.org)

## JOINT ILZSG/INSG SEMINAR

A Joint ILZSG/INSG Seminar on the topic of "The Contribution of Metals to our Sustainable Future" was held on 6 October 2010 in Lisbon with the involvement of the International Lead and Zinc Study Group (ILZSG) and the International Nickel Study Group (INSG).

The Seminar examined the role that non-ferrous metals are currently playing and likely to play in the evolution of a sustainable economy. The Seminar opened with presentations from representatives from the U.S., China, the EU and Australia providing overviews of the situation in their respective countries. The presentations were made by Mr. Salim Bhabhrawala of the U.S, Mr. Li Yusheng of China, Mr. Paul Anciaux of the European Commission and Ms. Helen Clarke of Australia. This was followed by presentations by speakers from industry associations and companies.

Mr. Alfons Westgeest, Secretary General of Eurobat spoke on the industry view of sustainability, focusing on electro-mobility and energy storage in relation to renewable energy and sustainable grid integration. This was followed by Mr. Maarten ten Houten,

Program Manager for Lighting at Philips with a presentation on "Sustainability at Philips", which provided information from the industry perspective. Mr. Curtis Stewart, Head of Economics and Environment ILZSG/INSG then spoke on "Lead, Zinc and Nickel in Batteries", drawing in part from recently published work by the Study Groups. Mr. Kevin Bradley, Director for EU Affairs at the Nickel Institute, gave a presentation on "Nickel Life Cycle and the Contribution of Nickel to Sustainability", detailing the work done by the Nickel Institute to analyze and understand the life cycle of nickel in the modern economy.

The Seminar concluded with a panel discussion by industry associations and government representatives. Among the points mentioned were the drivers moving the metals industry toward sustainability, the role of government policies on sustainability, environment and carbon emissions, and the impact of global trends such as energy efficiency and sustainability. Potential areas for further Study Group work were identified.

For further details about work underway in the Study Groups please email [paul.white@ilzsg.org](mailto:paul.white@ilzsg.org) (for lead and zinc), [curtis.stewart@ilzsg.org](mailto:curtis.stewart@ilzsg.org) (for nickel). The presentations given at the Seminar may be viewed by visiting: <http://www.ilzsg.org/presentations.asp>

#### INSG MEETING 5-6 OCTOBER 2010

Delegates from INSG member countries, industry and observing countries/organisations met in Lisbon from 5-6 October 2010 review statistical, economic and environmental issues related to nickel.

Delegates reviewed the INSG primary nickel market statistics in detail, and discussed the market forecast, which was prepared by the secretariat based on information provided by governments and industry. Details of the forecasts are provided on page 2.

The INSG Environmental and Economic Committee received presentations on topics related to environmental regulation and international policy initiatives that may affect nickel. Mr Yasuhiro Suzuki, Fellow at the International Stainless Steel Forum (ISSF) gave a presentation on "Stainless Steel and CO<sub>2</sub>", highlighting recent work done by ISSF. Mr. Jurgen Albracht of Cronimet Group spoke on the topic of "Stainless Steel Scrap in China", providing details of the expansion of Cronimet into that market. Mr. Paul Kleffmann of the German Federal Ministry of Economics and Technology gave a presentation on "The Nickel Industry in Germany", providing a useful update of the situation in that country which recently rejoined INSG. Mr. Kevin Bradley, the Director of EU Affairs at the Nickel Institute, addressed delegates on regulatory issues affecting the nickel industry. The secretariat updated delegates on the review of mining underway as part of the UN Commission on

Sustainable Development activities. The secretariat also presented the 2010/2011 Environmental and Economics Work Programme, which was approved by delegates.

The Statistics Committee, in addition to reviewing the latest statistical data, also received valuable input to its work through presentations and discussions. Mr. Oliver Spaltmann, Senior Market Analyst, SMR, Austria, made a presentation on "Market Drivers & Outlook for Duplex Stainless Steels to 2020", noting that the main end uses for Duplex are offshore oil and gas, desalination/water treatment, the chemical process industry and chemical tankers/shipbuilding. The Chief Statistician presented data from a report INSG commissioned from CBI China, a research company in Shanghai, on Chinese nickel stocks.

The Thirty-third meeting of the INSG Industry Advisory Panel, comprised of representatives from the world's nickel producing, consuming and recycling industries, once again provided valuable input on the Study Group's work program priorities. The Panel heard presentations from Mr. Khayyan Jahangir, Manager, Steel Alloys Research, Roskill, UK, on "Nickel Market Overview"; Mr. Benno Kratz of ELG, Germany, on "The importance of alloyed scrap as raw material"; Mr. Denis Lencou-Bareme with a presentation on the subject "Ferronickel vs. NPI: Two different products."; and Mr. Barry Jackson, Manager-Business Intelligence, Outokumpu, Finland who made a presentation on "Outokumpu's activities".

Copies of the presentations are available on the INSG website [www.insg.org](http://www.insg.org)



Zinc Metal

#### ILZSG FIFTY-FIFTH SESSION, LISBON 2010

The International Lead and Zinc Study Group held its Fifty-fifth Session in Lisbon from 7-8 October 2010. Delegates were presented with a review of the current levels of world supply and demand and the outlook for 2011 at the meeting of the ILZSG Statistical and Forecasting Committee (See details on page 1). Meetings of the Standing Committee, Economic and Environment Committee and the ILZSG Industry Advisory Panel were held.

The Industry Advisory Panel met on 7 October and provided an opportunity for members to comment on the latest developments in the lead and zinc market.

Presentations were made by Mr. Nikola Dobrev, Chief Executive Officer, KCM 2000, Bulgaria on "The Outlook for the Bulgarian Lead and Zinc Sector", where KCL 2000 is the largest lead and zinc producer; Mr. David Wilson, Director of Metals Research at Société Générale, United Kingdom spoke on "Are Commodities a Long or Short Term Play for the Investment Community?"; and Mr. David Weinberg, Attorney At Law, Wiley Rein, Washington DC addressed delegates on "Recent Changes to US Environment Regulations Affecting the Production, Use and Transport of Lead and Lead-Acid Batteries". Copies of these presentations are available on the ILZSG website.

The Study Group's Economic and Environment Committee met on 8 October. Ms. Claire Mikolajczak, Director of the Indium Corporation, spoke about "The Relationship Between Zinc and Indium Productions", elaborating on the production of indium which is often associated with zinc. Mr. David Willis of Interstate Batteries gave a presentation on "The Market for Storage Batteries" outlining the trends in the North American market. Mr. Brian Wilson, representing the International Lead Association, spoke on "Recent Developments in International Initiatives Impacting on the Lead Industry". Dr. Andrew Green, Director for Environment, Health and Sustainability at the International Zinc Association, gave an overview of sustainability in the zinc industry. Mr. Jose Hansen, Doe Run's Vice President for Sales and Marketing, gave delegates details on a new process for the electrowinning of lead which has several advantages over existing systems. Mr. Patrick Chevalier of Natural Resources Canada provided a report on preparations for the mining-related meetings of the UN Commission on Sustainable Development. The ILZSG Head of Economics and Environment then provided an update on Common Fund for Commodities projects in which ILZSG is involved. Copies of the presentations are available on the ILZSG website.



### ICSG MEETS IN CHILE

Representatives from ICSG member governments and companies, observer governments and organizations attended the International Copper Study Group's 36<sup>th</sup> Regular Meeting in Antofagasta, Chile on 28<sup>th</sup> September 2010.

A Joint Statistical Committee and Environmental and Economic Committee meeting was held, as well as meetings of the Industry Advisory Panel and

Standing Committee. At the Joint Statistical Committee and Environmental and Economic Committee meeting, ICSG Chief Statistician Ms Ana Rebelo presented the results of the Preliminary Forecast, including information about ICSG data sources, the main global assumptions regarding refined copper usage and copper production behind the forecast, and expected changes in production and usage by region. The presentation also included an overview of the development of copper mines and plants, including longer term production capacity developments to 2014.

A series of presentations were made on copper developments in key regions: Mr Mark Loveitt, Secretary General of the International Wrought Copper Council (IWCC), gave a presentation on Europe; Mr Juan Carlos Guajardo, Executive Director of CESCO, delivered a presentation on Latin America; Mr. Natsumi Kamiya, General Manager of Santiago Office Japan Oil, Gas and Metals National Corporation (JOGMEC), spoke on the "Supply and Demand for Copper in Japan"; Mr. Dan Edelstein of the USGS gave a presentation on "Trends in the U.S. Copper Industry"; and Mr. Joseph Pickard, ICSG Economist spoke on "Key Copper Market Developments in China".

Mr. Peter Hollands of BME delivered a presentation on "Investment in Copper Futures as a New, yet Still Readily Understood, Fundamental Force in the Market, and Mr Miguel Riquelme, of the International Copper Association, (ICA) spoke on "Threats and New Applications for Copper".

ICSG Head of Economics and Environment Mr Carlos Risopatron made a presentation on scrap market issues and developments in the semi-fabricators industry. Topics covered included: ICSG Research on Copper and Copper Alloy Scrap Markets; the 2010 Copper and Copper Alloys Fabrication Directory; and Fabrication and Use of Copper and Copper Alloy Products.

The ICSG Industry Advisory Panel also met in Antofagasta with the objective of encouraging further industry participation and informing a wider range of copper industry representatives of the work and activities of the Study Group.

ICSG Head of Economics and Environment Mr Carlos Risopatron presented a summary of the 2010 Report on Regulatory Developments Affecting Copper. ICSG Economist Mr Joseph Pickard gave an update on ICSG research on leading indicators of refined copper usage and on copper exploration.

Mr Jon Barnes, Managing Consultant, CRU Analysis, made a presentation on "Longer Term Supply and Demand Issues and Factors Affecting Global Copper Markets". Mr Barnes was then joined by Mr Jurgen Leibbrandt (Codelco), Mr Paul Missen (Anglo

American), Mr Tariq Salaria (BHP Billiton) and Mr Radoslaw Zalozinski (KGHM) for a panel discussion.

The secretariat presented industry advisors with a list of key current issues and asked participants to rank the issues in terms of how important it would be to have further information generated by ICSG. The results were further discussed in a subsequent meeting of the Industry Advisory Panel held in London during LME Week on 14 October 2010. Presentations may be viewed at ICSG's web site [www.icsg.org](http://www.icsg.org)

### ICSG AT CHINA COPPER 2010 CONFERENCE

ICSG Head of Economics and Environment, Carlos Risopatron, delivered a presentation on "Global Trends Affecting Copper Mining and Copper Smelting in 2010-2014 and Beyond" at the *China International Copper Conference*, in Ningbo, China on 2 November 2010 organized by the China Non-ferrous Metals Industry Association (CNIA)/Antaika. For more information, please contact the ICSG Secretariat at [risopatron@icsg.org](mailto:risopatron@icsg.org)

### ILZSG BRINGS NEW DATABASE ONLINE

The ILZSG secretariat has recently brought on line a new database system. This upgrade will be used to store all of the Group's statistical data and to produce the monthly statistical bulletin. The new system, based on Microsoft's widely used SQL software, was developed by the highly-regarded Portuguese computer software specialists Prologica in close co-operation with the secretariat.

### STUDY GROUPS PRESENT AT INTERGOVERNMENTAL FORUM

The ILZSG/INSG Head of Economics and Environment, Curtis Stewart, presented a paper entitled 'The World Mining and Metal Sector Outlook' on 3 November at a meeting of the Intergovernmental Forum on Mining, Minerals, Metals and Sustainable Development in Geneva, Switzerland. For copies of the presentation, please contact the Secretariat at [curtis\\_stewart@ilzsg.org](mailto:curtis_stewart@ilzsg.org)

### PARTICIPATION IN 6<sup>th</sup> ECONOMIC FORUM FOR NON-FERROUS METALS

The ILZSG/INSG Head of Economics and Environment, Curtis Stewart, took part in the 6<sup>th</sup> Economic Forum for Non-Ferrous Metals hosted by the Polish Institute of Non-Ferrous Metals in Krakow, Poland, 4-5 November 2010. He presented a paper entitled 'The Situation of the Non-Ferrous Metals Industry in the EU'. For copies of the presentation,

please contact the Secretariat at [curtis\\_stewart@ilzsg.org](mailto:curtis_stewart@ilzsg.org)

### RECYCLING PROJECT TEAM (RPT) UPDATE

The ILZSG Head of Forecasting and Statistics, Paul White, represented the three Study Groups at a Recycling Indicators Workshop and meeting of the Recycling Project Team held at Eurometaux's offices in Brussels on 3 - 4 November 2010. The workshop was attended by over 30 participants representing the lead, zinc, copper, aluminium, nickel, steel, specialty metal and battery industries. Good progress was made regarding the further harmonization of recycling rate definitions and methodology used to calculate the rates. For further information contact the ILZSG Secretariat at [paul\\_white@ilzsg.org](mailto:paul_white@ilzsg.org)

### ILZSG PARTICIPATES IN COMPLETION MEETING FOR CHINESE GALVANIZING PROJECT



The ILZSG Head of Economics and Environment participated in the completion meeting for a long running Hot Dip Galvanizing project in China funded by the Common Fund for Commodities (CFC) with ILZSG as the responsible International Commodity Body. Site visits were made to galvanizing facilities in several parts of China from 15 to 18 November and a formal Completion Meeting was held on 19 November in Hangzhou. The project, funded by a grant of \$871,000 from the CFC, began in 2005 and was the third phase of a long term project. The chart above shows the growth in Chinese production of galvanized steel from 1979 through 2009.

### NEW COMMON FUND FOR COMMODITIES PROJECT APPROVED

In July the Common Fund for Commodities approved a proposal submitted by ILZSG for a project in Malawi, Africa to increase maize and legume crop production by improving the zinc nutritional status of the crop areas where soils are identified as zinc

deficient. The project executing agency will be the International Zinc Association. The aim of the project is to demonstrate the economic benefits of zinc fertilizer use to address basic nutritional needs of the population, in particular zinc deficiency in children. Further information is available from [curtis\\_stewart@ilzsg.org](mailto:curtis_stewart@ilzsg.org).

## Forthcoming Events

### INSG PARTICIPATION IN CHINA INTERNATIONAL NICKEL AND COBALT INDUSTRY FORUM

In November 2010 the Chief Statistician made a presentation at the "2010 China International Nickel & Cobalt Industry Forum", in Changsha, Hunan Province, China, organized by the China Non-ferrous Metals Industry Association (CNIA)/Antaika. At the same time he visited stainless steel producers and nickel pig iron producers in the area.

### SECRETARY-GENERAL VISITS CHINA

In November 2010 the Secretary-General visited China to meet with China Non-ferrous Metal Industry Association (CNIA) officials and industry representatives, and to make a presentation at the CNIA/Antaika "2010 International Lead and Zinc Conference" in Shenzhen.

The Secretary-General also participated in the China Mining 2010 event held in Tianjin and made two presentations, one on lead and zinc, and the other on copper in conjunction with officials from the Chilean Copper Commission (Cochilco).

### ICSG DIRECTORY OF COPPER AND COPPER ALLOY FABRICATORS CAPACITY

The International Copper Study Group has recently completed an updated revision of its Directory of Copper and Copper Alloy Fabricators Capacity. The Directory represents a significant effort in terms of resources and provides a wealth of information on the patterns of first use of copper. The survey undertaken for the project confirms that China is the area of the world with most copper semis plants with 498 plants. Europe follows with 246 plants while the Americas have 215 plants, South Asia and Oceania 204 plants, North Asia (ex-China) 160 plants, the Middle East 103 plants, Eastern Europe and Central Asia 61 and Africa 44 plants. The 2010 edition may be ordered through the ICSG website.

### MEETINGS, CONFERENCES and SEMINARS

- **UNSCD Meetings.** The UN Commission on Sustainable Development (UNCSD) will meet in New York in May 2011 as the second part of the two year cycle (2010 and 2011) to formulate policy recommendations on mining, chemicals and waste management. For further information see: (<http://www.un.org/esa/sustdev/natlinfo/natlinfo.htm>)
- **2011 International Zinc Conference and the 2011 International Zinc Oxide Industry Conference, 20-23 February 2011, Cancun Mexico.** The 2011 International Zinc Conference is the premier zinc event of the year highlighting key industry trends and challenges. The 2011 International Zinc Oxide Industry Conference is being held in conjunction with the International Zinc Conference. These are two separate conferences, however, a special package rate will be granted to those attending both conferences. For further information see the International Zinc Association (IZA) website: <http://www.iza.com/zincconference2011.html>

**International Copper Study Group (ICSG)**  
Tel: + 351 21 351 3870  
Fax: + 351 21 352 4035  
e-mail: [mail@icsg.org](mailto:mail@icsg.org)  
Website: [www.icsg.org](http://www.icsg.org)

**International Lead & Zinc Study Group (ILZSG)**  
Tel: + 351 21 359 2420  
Fax: + 351 21 359 2429  
e-mail: [root@ilzsg.org](mailto:root@ilzsg.org)  
Website: [www.ilzsg.org](http://www.ilzsg.org)

**International Nickel Study Group (INSG)**  
Tel: + 351 21 356 7030  
Fax: + 351 21 356 7039  
e-mail: [insg@insg.org](mailto:insg@insg.org)  
Website: [www.insg.org](http://www.insg.org)

**ILZSG Member States:**  
[Australia](#), [Belgium](#), [Brazil](#),  
[Bulgaria](#), [Canada](#), [China](#),  
[European Union](#),  
[Finland](#), [France](#),  
[Germany](#), [India](#), [Iran](#),  
[Ireland](#), [Italy](#), [Japan](#),  
[Korea](#), [Morocco](#), [Namibia](#),  
[Netherlands](#), [Norway](#), [Peru](#),  
[Poland](#), [Portugal](#),  
[Russian Federation](#),  
[South Africa](#),  
[Serbia](#),  
[Spain](#), [Sweden](#),  
[Thailand](#),  
[United States](#)

**INSG Member States:**  
[Australia](#), [Brazil](#), [Cuba](#),  
[European Union](#),  
[Finland](#), [France](#), [Germany](#),  
[Greece](#), [Italy](#), [Japan](#),  
[Netherlands](#), [Norway](#), [Portugal](#),  
[Russian Federation](#), [Sweden](#)  
[United Kingdom](#)

**ICSG Member States**  
[Belgium](#) [Luxembourg](#)  
[Chile](#), [China](#),  
[European Union](#)  
[Finland](#), [France](#)  
[Germany](#), [Greece](#), [India](#), [Italy](#),  
[Japan](#), [Mexico](#), [Netherlands](#),  
[Peru](#), [Poland](#), [Portugal](#),  
[Russian Federation](#),  
[Serbia](#),  
[Spain](#), [Sweden](#),  
[United States](#)



## PUBLICATIONS

\*\*\*\*\* AVAILABLE NOW \*\*\*\*\*

### NEW

#### **INSG World Directory of Nickel Production Facilities**

Comprehensive directory lists nickel mines, smelters and refineries as well as new nickel industry developments (committed, likely and potential) together with recent closures in more than twenty countries. *Published October 2010.*

### NEW

#### **ICSG Directory of Copper Mines and Plants**

The Directory of Copper Mines and Plants highlights current capacity and provides a five year outlook of forecast capacity for over 1,000 existing and planned copper mines, smelters and refineries on a country by country basis, including separate tables for SX-EW plants. Salient details for each operation are included and the Directory separates operations between Operating & Developing and Exploration & Feasibility stages. *Published in September 2010.*

### NEW

#### **Lead and Zinc in Batteries 2010**

This report describes different types of lead and zinc-containing batteries and their uses, looks at the consumption of lead in world markets for starter, lighting and ignition (SLI) batteries and industrial batteries and provides information on the environmental regulatory framework for lead acid and zinc batteries. A listing of major producers with web addresses is included for both lead acid and zinc batteries. 60 pages. *Published October 2010.*

### NEW

#### **ICSG 2010 Statistical Yearbook**

The ICSG Copper Bulletin yearbook includes annual statistics on copper and copper products, production, usage and trade by country, as well as stocks and exchange prices, providing a global view of supply and demand for the past 10 years. The Yearbook serves as a useful tool for consultations and analysis on the evolution of world copper production, usage, stocks and prices. *Published July 2010.*

### NEW

#### **Directory of Copper & Copper Alloy Fabricators (First Use) 2010 Edition**

This directory provides a systematic global overview of companies and plants involved in the first use of copper. First users are mainly semis fabricators that process refinery shapes into semi-finished copper and copper alloy products. The Directory covers wire rod plants, ingot makers (for castings), master alloy plants, brass mills, and electrodeposited copper foil mills. *Published September 2010.*

### NEW

#### **Nickel Pig Iron Study - 2010**

The report analyzes the driving forces behind the increasing use of nickel pig iron in China. Identifies current and new projects totaling over 150 000t per annum. Highlights possible substitution among nickel pig iron, ferro-nickel, stainless steel scrap and nickel metal. It also reviews the most important cost factors. 70 pages. *Published in May 2010.*

**International Copper Study Group (ICSG)**

Tel: + 351 21 351 3870  
Fax: + 351 21 352 4035  
e-mail: [mail@icsg.org](mailto:mail@icsg.org)  
Website: [www.icsg.org](http://www.icsg.org)

**International Lead & Zinc Study Group (ILZSG)**

Tel: + 351 21 359 2420  
Fax: + 351 21 359 2429  
e-mail: [root@ilzsg.org](mailto:root@ilzsg.org)  
Website: [www.ilzsg.org](http://www.ilzsg.org)

**International Nickel Study Group (INSG)**

Tel: + 351 21 356 7030  
Fax: + 351 21 356 7039  
e-mail: [insg@insg.org](mailto:insg@insg.org)  
Website: [www.insg.org](http://www.insg.org)

**ILZSG Member States:**

[Australia](#), [Belgium](#), [Brazil](#),  
[Bulgaria](#), [Canada](#), [China](#),  
[European Union](#),  
[Finland](#), [France](#),  
[Germany](#), [India](#), [Iran](#),  
[Ireland](#), [Italy](#), [Japan](#)  
[Korea](#), [Morocco](#), [Namibia](#),  
[Netherlands](#), [Norway](#), [Peru](#),  
[Poland](#), [Portugal](#),  
[Russian Federation](#),  
[South Africa](#),  
[Serbia](#),  
[Spain](#), [Sweden](#),  
[Thailand](#),  
[United States](#)

**INSG Member States:**

[Australia](#), [Brazil](#), [Cuba](#),  
[European Union](#),  
[Finland](#), [France](#), [Germany](#),  
[Greece](#), [Italy](#), [Japan](#),  
[Netherlands](#), [Norway](#), [Portugal](#),  
[Russian Federation](#), [Sweden](#)  
[United Kingdom](#)

**ICSG Member States**

[Belgium](#) [Luxembourg](#)  
[Chile](#), [China](#),  
[European Union](#)  
[Finland](#), [France](#)  
[Germany](#), [Greece](#), [India](#), [Italy](#),  
[Japan](#), [Mexico](#), [Netherlands](#),  
[Peru](#), [Poland](#), [Portugal](#),  
[Russian Federation](#),  
[Serbia](#),  
[Spain](#), [Sweden](#),  
[United States](#)

**NEW**

**Final Report of the ICSG Copper Scrap Project**

Synthesizing the findings of an ICSG research project on the copper and copper alloy scrap markets approved by ICSG members and initiated in October 2007, this report presents a comprehensive picture of the global copper scrap market and its determinants. *Published August 2010.*

**NEW**

**China Lead Acid Battery Market**

This detailed study, prepared for ILZSG by the Beijing General Research Institute of Mining and Metallurgy (BGRIMM) provides an overview of current production and usage of lead-acid batteries in China together with a summary of likely rates of growth over the period 2009 to 2014. Much of the information contained in the report has been sourced directly from battery manufacturers, e-bikes producers and experts in renewable energy. 60 pages. *Published June 2010.*

**NEW**

**China Zinc Recycling Industry**

Prepared for ILZSG by the Beijing General Research Institute of Mining and Metallurgy (BGRIMM), this report provides a comprehensive assessment of the volume of zinc recovered from scrap in China. It also provides information regarding the main sources of secondary zinc material and likely future trends. Much of the data contained in the report has been sourced directly from zinc producers, consumers, traders and scrap dealers. 44 pages. *Published June 2010.*

**NEW**

**INSG Environment, Health and Safety (EHS) Regulations Relating to Nickel 2010**

An updated compilation of environmental, health and safety regulations affecting nickel. The listing of regulations is provided by country, state or province as well as separately for international organizations. The report is presented in a spreadsheet format and contains web links to regulations in various jurisdictions. 42 pages. *Published June 2010.*

**NEW**

**Nickel Heap Leaching Study – 2010**

A comprehensive analysis of heap leaching in nickel production prepared for INSG by consultants, this report provides up to date information on all aspects of heap leaching. It examines the various hydrometallurgical processes applied to nickel leaching. It also covers the economic and environmental impact of the use of heap leaching, including on CO2 emissions. 72 pages. *Published April 2010.*

**ILZSG Lead & Zinc New Mine & Smelter Projects Mines 2010**

A principal source of information on developments in the lead and zinc industries for 45 years. This 85 page report contains comprehensive data gathered from ILZSG's extensive network of sources worldwide. In total, over 200 entries from 51 countries are listed. The report includes extensive details of new projects in China. *Published in January 2010.*

**ILZSG World Directory: Continuous Galvanizing Lines 2010**

A full listing of continuous galvanizing lines with information from 62 countries. The Directory includes data on plant locations, annual capacities, annual zinc consumption and contact information. 95 pages. *Published in January 2010.*



**International Copper Study Group (ICSG)**  
Tel: + 351 21 351 3870  
Fax: + 351 21 352 4035  
e-mail: [mail@icsg.org](mailto:mail@icsg.org)  
Website: [www.icsg.org](http://www.icsg.org)

**International Lead & Zinc Study Group (ILZSG)**  
Tel: + 351 21 359 2420  
Fax: + 351 21 359 2429  
e-mail: [root@ilzsg.org](mailto:root@ilzsg.org)  
Website: [www.ilzsg.org](http://www.ilzsg.org)

**International Nickel Study Group (INSG)**  
Tel: + 351 21 356 7030  
Fax: + 351 21 356 7039  
e-mail: [insg@insg.org](mailto:insg@insg.org)  
Website: [www.insg.org](http://www.insg.org)

**ILZSG Member States:**  
[Australia](#), [Belgium](#), [Brazil](#),  
[Bulgaria](#), [Canada](#), [China](#),  
[European Union](#),  
[Finland](#), [France](#),  
[Germany](#), [India](#), [Iran](#),  
[Ireland](#), [Italy](#), [Japan](#)  
[Korea](#), [Morocco](#), [Namibia](#),  
[Netherlands](#), [Norway](#), [Peru](#),  
[Poland](#), [Portugal](#),  
[Russian Federation](#),  
[South Africa](#),  
[Serbia](#),  
[Spain](#), [Sweden](#),  
[Thailand](#),  
[United States](#)

**INSG Member States:**  
[Australia](#), [Brazil](#), [Cuba](#),  
[European Union](#),  
[Finland](#), [France](#), [Germany](#),  
[Greece](#), [Italy](#), [Japan](#),  
[Netherlands](#), [Norway](#), [Portugal](#),  
[Russian Federation](#), [Sweden](#)  
[United Kingdom](#)

**ICSG Member States**  
[Belgium](#) [Luxembourg](#)  
[Chile](#), [China](#),  
[European Union](#)  
[Finland](#), [France](#)  
[Germany](#), [Greece](#), [India](#), [Italy](#),  
[Japan](#), [Mexico](#), [Netherlands](#),  
[Peru](#), [Poland](#), [Portugal](#),  
[Russian Federation](#),  
[Serbia](#),  
[Spain](#), [Sweden](#),  
[United States](#)

**Framework for Analyzing the Impacts of Investment Legislation and Tax Regimes on Copper Supply Coming On Stream**

As part of ICSG's efforts to better understand the opportunities and challenges facing the copper industry, mineral economist Mr James Otto was commissioned to produce this report that examines how national regulatory and fiscal systems impact copper supply coming on stream. *Published October 2009.*

**Copper Scrap Market in Japan, China's Scrap Usage Survey and Domestic Copper Scrap Generation in China, 2010-2015**

Adding to ICSG's expanding body of research on scrap, ICSG commissioned three reports about scrap that provide information on two critical copper markets: Japan and China. The Japanese Report, prepared by MERI/J, provides a comprehensive overview of the refined copper and copper scrap markets and also covers Japanese copper scrap trade, material flows, how scrap is categorized and relevant regulations. The Chinese Reports, prepared by BGRIMM, provides insight into scrap usage in China at the smelters/refineries and fabricators and forecasts domestic scrap generation in China. *Published October 2009.*

**INSG Market for Nickel: Fundamentals Driving Change 2009**

Comprehensive analysis of the drivers for change in the world nickel market. Analyses the structure of mine and refined world nickel production and identifies current and future trends. Assesses nickel usage patterns in the main market sectors. Traces changes in the structure of industry ownership. The 2009 edition updates the original report of 2008. *Published September 2009.*

**INSG Nickel in Batteries 2009**

A comprehensive report on the use of nickel in batteries drawing on data from a variety of sources, both government and private. Provides a history of nickel in batteries and describes the principal types of batteries which use nickel. A comparison of the various nickel containing batteries in terms of cost and energy density is provided, as is information on the environmental regulations impacting nickel batteries. Includes a list of major producers of nickel containing batteries with web addresses. 25 Pages. *Published May 2009.*



**MORE PUBLICATIONS**

\*\*\*\*\***COMING SOON**\*\*\*\*\*

**Chinese Primary Nickel Stocks Study - 2010**

A comprehensive study of Chinese primary nickel stocks providing data and information on nickel stocks held by first users such as stainless steel, specialty steel, battery materials producers, galvanizers and foundries, refined nickel producers, nickel pig iron producers, traders, exchanges and others. It identifies key factors impacting on market stock levels, such as price expectation and financing costs. The report also estimates stock changes taking place between 2009 and 2010. 40 pages. *To be published in December 2010.*

*To place an order or for further information about the above and other publications published by the International Metals Study Groups please contact: [sales@ilzsg.org](mailto:sales@ilzsg.org) for ILZSG reports, [mail@icsg.org](mailto:mail@icsg.org) for ICSG reports, and [insg@insg.org](mailto:insg@insg.org) for INSG reports.*