



# Metals Despatch

Newsletter of the International Metals Study Groups

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## LEAD AND ZINC FORECAST

The outlook for World supply and demand for lead and zinc was presented during the ILZSG 56<sup>th</sup> Session held in Lisbon on 29-30 September 2011. Highlights include:

- **The global usage of refined lead metal** is expected to increase by 6.1% to 10.15 million tonnes in 2011 and by a further 4% to 10.56 million tonnes in 2012. In China, despite a slowdown in automobile sales and closure of battery production facilities for environmental reasons, an increase of 7.4% in usage is anticipated in 2011, and 6.0% in 2012.
- Global **lead mine production** is forecast to increase by 7.8% in 2011 to 4.52 million tonnes and 6.2% in 2012 to 4.79 million tonnes due to increased production in China, India and Mexico and the opening of new mines in Tajikistan and Uzbekistan.
- Global production of **refined lead metal** in 2011 is expected to increase by 7.3% to 10.34 million tonnes. In 2012 a further rise of 3.1% to 10.65 million tonnes is expected due to higher output in India and China.
- The **forecast** is for the global supply of refined lead metal to exceed demand by about 188,000 tonnes in 2011 and 97,000 tonnes in 2012.
- Global **refined zinc usage** is forecast to rise by 2.2% in 2011 to 12.85 million tonnes. Chinese apparent demand is expected to grow at 2.1%. European demand in 2011 is predicted to increase by 2.5%. In 2012, a further rise in global demand of 3.9% to 13.35 million tonnes is expected with 5.7% growth in China, 1.0% in Europe and 1.3% in the United States.
- Global **zinc mine supply** is forecast to increase 4.3% to 12.77 million tonnes in 2011, due largely to increases in China, India, Kazakhstan, Mexico and the Russian Federation. In 2012, global production is anticipated to grow 4.8% to 13.37 million tonnes, with additional output from Burkina Faso, Canada, Saudi Arabia and Uzbekistan.
- **Global refined zinc production** is forecast to rise 2.7% to 13.16 million tonnes in 2011, driven by production increases in China, India and the Republic of Korea. In 2012, refined zinc output is predicted to rise by 2.4% to 13.48 million tonnes.
- The latest **forecasts** supplied by the Group's member countries indicate that global supply of refined zinc metal will exceed demand by 317,000 tonnes in 2011. It is anticipated that supply will exceed demand by 135,000 tonnes in 2012.

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: 23-24 April 2012, Lisbon, Portugal**

**ILZSG: 25 April 2012, Lisbon, Portugal**

**ICSG: 26-27 April 2012, Lisbon, Portugal**

**Joint Seminar 2:00 pm on 25 April 2012: "How Society Benefits from Mining and Metals Production", in Lisbon**

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## COPPER FORECAST

During the 38<sup>th</sup> Regular Meeting of the International Copper Study Group Statistical Committee in Lisbon on 26-27 September 2011, member countries reviewed the current outlook for trends in World supply and demand for copper during 2011 and 2012 and issued the following forecast:

- Global **refined copper usage** is forecast to increase by only 1.5% in 2011 to 19.7 million tonnes (Mt) mainly due to the impact of lower Chinese apparent usage in the 1<sup>st</sup> half of 2011. World copper usage is expected to increase further in 2012 by around 3.6% to 20.4 Mt.
- In the first half of 2011, operational problems, lower head grades, adverse weather conditions and labor unrest combined to constrain **global copper mine output**, and production for 2011 is now anticipated to grow by only 0.7% to 16.1 Mt. As capacity ramps up and operational constraints are expected to ease, mine output is forecast to increase 9.4% in 2012 to 17.6 Mt.
- Global **refined copper metal production** in 2011 is predicted to increase by 2.3% to 19.5 Mt and expand 3.4% in 2012 to 20.1 Mt.
- ICSG anticipates that the **refined copper market balance** could show a deficit in 2011 and 2012 of 201,000 tonnes and 256,000 tonnes respectively
- In developing its projections, the International Copper Study Group recognized that numerous factors including a world economic slowdown, European Union sovereign debt issues, political disturbances in the Middle East and North Africa, and market price volatility create significant uncertainty, and that the global market balances could vary from those projected.

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)



Talvivaara Nickel Mine – Largest in Europe

## NICKEL FORECAST

The International Nickel Study Group (INSG) met on 26-28 September 2011 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 1.48 Mt in 2010 and is estimated at 1.57 Mt in 2011. For 2012 a further increase to around 1.67 Mt is expected.
- World **primary refined nickel production** was 1.44 Mt in 2010, and is anticipated to grow to 1.60 Mt in 2011. In 2012 production is forecast to increase to 1.74 Mt. The 2012 figure does not include any adjustment factor for possible production disruptions.
- The current INSG view is for a small surplus for 2011 and for 2012 a stock build up which could grow if projects ramp up faster than estimated in the forecast.
- INSG members also discussed **market trends** and noted that 2011 started well with high production of stainless steel and good demand for primary nickel as well as recycled nickel products such as stainless steel scrap. The second half is encountering modest growth.
- INSG recognizes the significant impact of the current financial and economic uncertainty in many parts of the world. The effects of the above 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 SEMINAR ON CHINA

A Joint Study Groups'/CNIA Seminar on the topic of "Reassessing the Outlook for Lead, Zinc, Copper and Nickel in China" was held on 28 September 2011 in Lisbon with the involvement of the three Study Groups and the China Non-Ferrous Metals Industry Association (CNIA).

Mr. Chen Quaxun, President of CNIA opened the Seminar with an overview of the growth of the non-ferrous metals sector in China. Mr. Jim Lennon, Executive Director, Macquarie Commodities Research, provided an overview of the Chinese non-ferrous metal industry. Ms Jin Xiangyun, Senior Analyst at Antaike, offered an analysis of the lead and zinc sectors in China. Over the past decade China's lead and zinc industry has seen rapid growth. Mr. Neil Hawkes, Principal Consultant at CRU

Analysis, spoke on the topic of 'Prospects for Chinese Lead Demand'. Mr. Giles Lloyd, Senior Analyst at CRU Analysis, provided a presentation on 'Short and Long Term Prospects for Chinese Zinc Demand'. Mr. Li Yusheng, Senior Analyst, Antaika, provided a detailed analysis of the Chinese copper industry. Mr. Paul Dewison, Research Manager, Bloomsbury Minerals Economics, then provided an overview of the Chinese copper market. Ms. Xu Aidong, Senior Analyst, Antaika, spoke on the Chinese nickel market. The presentation provided information on four topics: price trends, production, consumption and the future outlook. Mr. Peter Kaumanns, Director, Economics & Statistics, International Stainless Steel Forum (ISSF), gave a presentation looking at the current and future trends in the Chinese stainless steel market.

The Seminar concluded with a panel discussion by industry associations and government representatives. One question raised from the floor concerned the level of stocks in China and what the appropriate level of stocks might be. In the discussion, it was noted that the question of stocks is complicated and it is difficult to come to a precise answer. Questions were also raised on the size of the lead market and the outlook for an increase in battery imports. On the subject of zinc, panel members noted that government control measures may affect recycling companies but this is likely to be a short term effect.

Several questions related to copper and copper imports were raised. These included: what is the Chinese strategy of acquiring overseas mines to secure raw material source? and what level of copper stocks are needed for China? In discussion, Mr Lennon noted that copper consumption trends and structure in China are very different from the rest of the world, as, for example, there is practically zero use of copper in plumbing.

For further details about the Seminar, 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) or [rebelo@icsg.org](mailto:rebelo@icsg.org) and [risopatron@icsg.org](mailto:risopatron@icsg.org) (for copper). The presentations given at the Seminar may be viewed by visiting each Study Group's website.

### INSG MEETING 26-28 SEPTEMBER 2011

Delegates from INSG member countries, industry and observing countries/organisations met in Lisbon from 26-28 September 2011 to 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 a range of topics that impact nickel. Mr Mark Mistry, EU Director for Sustainability at the Nickel Institute, gave a presentation on "The Latest Regulatory Developments Affecting the Nickel Industry". Mr Markus Moll, Managing Director, Steel and Metals Market Research GmbH, spoke on "Stainless Steel in the Food Service Industry". Finally, Mr Curtis Stewart, INSG Head of Economics and Environment, gave a presentation on "By-product Metals of Nickel Production". The secretariat provided delegates with a status report on the Environmental and Economics Work Program.

The Statistics Committee reviewed and discussed the latest statistical data. The Committee also received valuable input to its work through presentations and discussions. Presentations began with Mr. Peter Kaumanns, ISSF, Belgium, who made a presentation on latest developments in the world of stainless steel and its markets. Mr. Katsuhito Miyajima, General Manager, Mitsui & Co., Ltd, Japan then made a presentation on "The Japanese Stainless Steel Industry". Mr. Sven Tollin, INSG Chief Statistician, made a presentation on "Changes in the World Nickel Markets 1999-2010".

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. Jim Lennon, Director, Macquarie Commodities Research, on "Nickel Supply and Demand in 2011 and 2012" and from Mr. Benno Kratz, ELG, Germany who spoke on the latest world trends in the supply and demand for stainless steel scrap from the point of view of a large processor. Mr. Mark Midgley, Director, ENRC Marketing AG, Switzerland made a presentation on "An Overview of the Chrome Market".

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



Red Dog Zinc Mine – Largest in North America

## ILZSG FIFTY-SIXTH SESSION, LISBON 2011

The International Lead and Zinc Study Group held its Fifty-sixth Session in Lisbon from 28-30 September 2011. Delegates were presented with a review of the current levels of world supply and demand and the outlook for 2012 at the meeting of the ILZSG Statistical and Forecasting Committee (See details on page 1). Meetings of the Standing Committee, Economic and Environment Committee, Mines and Smelter Project Committee and the ILZSG Industry Advisory Panel were held.

The Industry Advisory Panel met on 29 September and provided an opportunity for members to comment on the latest developments in the lead and zinc market. Presentations were received from several experts. Former IAP member Mr. Geoffrey May of Focus Consulting in the United Kingdom spoke on 'The Evolution of the Lead-Acid Battery Market and the Effect of Changes in Automotive Technology on Battery Designs'. Mr. Anton Shukerov, Foreign Trade Specialist at KCM AD in Bulgaria then presented a video on the extensive work undertaken by KCM in the area of sustainable development. Mr David Thurtell, Metals Strategist with Citigroup Global Markets, Singapore, then spoke on the medium term outlook for the zinc market. Copies of these presentations are available on the ILZSG website.

The Study Group's Economic and Environment Committee met on 30 September. Ms. Claire Mikolajczak, Director, Metals & Chemicals of Indium Corporation, gave a presentation on *The Economic Linkage between Zinc and Germanium* in which detailed information was provided on germanium, a metal often produced as a by-product of zinc smelting. Mr. Dave Godlewski of Teck America presented information on The OneMine Global Library on behalf of the Society for Mining, Metallurgy & Exploration. OneMine.org provides an online, global mining and minerals library which makes access available to a vast number of publications related to mining and metals. Dr. John Anderson, Senior Analyst at Brook Hunt Wood Mackenzie of the UK, spoke on *The Economics of Zinc Smelting* and provided detailed information on the trends in costs and revenues related to zinc production. Dr. David Wilson, outgoing Executive Director of the International Lead Association, spoke on *The Lead Industry: Overview of Recent Developments* and provided an update on various international initiatives impacting directly on the lead industry. Mr. Stephen Wilkinson, Executive Director of the International Zinc Association, gave a presentation on the *Latest Developments in the Zinc Industry* which covered the current trends in the zinc industry and highlighted the importance of zinc in nutrition, noting the growing use of zinc in fertilizers to combat zinc deficiency in soils, promote better crop production and improve human health and nutrition. Mr. Carl Perry, Regional Manager for Europe of Bluescope Steel, spoke on

*Directions and Trends in Zinc Usage for Construction Markets in the Coil Coating Industry*, pointing out that the use of zinc in galvanizing has grown tremendously in new markets and applications. Finally, Mr. Brian Wilson, Program Manager at the International Lead Management Center (ILMC), provided a presentation on *West Africa ULAB Collection Centre and Recovery Project: Update* and also mentioned similar work undertaken in Central America and the Caribbean.

Copies of the presentations are available on the ILZSG website.



Escondida Copper Mine in Chile

## ICSG CONVENES 38<sup>th</sup> REGULAR MEETING

Over 60 representatives from ICSG member governments and companies, observer governments and organizations attended the International Copper Study Group's 38<sup>th</sup> Regular Meeting at ICSG Headquarters in Lisbon on 26-27 September 2011. Meetings were held of the Environmental and Economic Committee (EEC), Statistical Committee, Industry Advisory Panel and Standing Committee.

At the Environmental and Economic Committee meeting Mr David Wilson, Director, Metals Research, Societe Generale, gave a detailed presentation on the various global macroeconomic trends impacting on the copper industry. The Head of Economics and Environment, Mr Carlos Risopatron, made a presentation on the outcomes of Group's most recent survey of regulatory developments affecting copper, and outlined the key findings of recent semi-fabrication and recycling research activities undertaken by the secretariat. Mr Robert Damuth, Principal Consultant, Nathan Associates, provided the preliminary findings of the survey of copper recyclers in North America being undertaken on behalf of ICSG, and Statistical Analyst/Economist, Ms Susanna Keung, presented a summary of the country profile for Turkey that had been prepared to increase understanding of this important copper producer and user.

At the Statistical Committee meeting, ICSG Chief Statistician Ms Ana Rebelo delivered a presentation

on the current state of the global copper market and the ICSG copper production and usage forecast for 2011/2012. Mr. Vicente Perez Vidal, Director of Studies and Public Policies at Cochilco, gave a detailed presentation on the strong portfolio of mining projects in Chile and the future of Chilean copper production. He noted that in the medium and long term some key projects are expected to come on stream and that Chilean mine production is expected to reach 7.8 Mt (million tonnes) by 2020, a growth of 43% compared with 2010 production. Mr. Masato Koie, Deputy Director, Mineral and Natural Resources Division, METI, gave an update on the recovery of the Japanese economy and copper industry following the devastating earthquake and tsunami of the 11<sup>th</sup> March 2011. Presentations may be viewed at ICSG's web site [www.icsg.org](http://www.icsg.org)

The ICSG Industry Advisory Panel met 6 October 2011 in London during the LME Week with the objective of encouraging further industry participation and informing a wider range of copper industry representatives of the work and benefits of the Study Group. Industry advisers from Australia, Belgium, Chile, China, Germany, India, Italy, Japan, Portugal, Spain, United Kingdom and the United States were present along with industry association and Study Group representatives.

#### **ILZSG INTRODUCES NEW MONTHLY BULLETIN**

Beginning with the September 2011 edition, the ILZSG secretariat has introduced a new format for the Group's monthly statistical bulletin. The new system is intended to be more user-friendly and takes advantage of recent improvements in ILZSG's software and database. Changes include a shift from the former East/West approach to a World approach, reorganization of tables, fonts and graphics, and improved cross checking to detect and eliminate errors. The secretariat is now working to expand the volume of data available to members and subscribers via the ILZSG website.

#### **ICSG AT CHINA COPPER 2011 CONFERENCE**

ICSG Statistical Analyst/Economist, Ms. Susanna Keung delivered a presentation on "Development of the Global Copper Fabrication Industry" at the *China International Copper Conference*, Jinan, China on 3 November 2011 organized by the China Non-ferrous Metals Industry Association (CNIA)/Antaike. For more information, please contact the ICSG secretariat at [Keung@icsg.org](mailto:Keung@icsg.org)

#### **STUDY GROUPS COOPERATE WITH INTERGOVERNMENTAL FORUM**

The secretariat continued its engagement with the Intergovernmental Forum on Mining, Metals and Sustainable Development by preparing a presentation for the November 2011 meeting of the Forum which was held in Geneva. The presentation was delivered on behalf of the Study Groups by the representative from Natural Resources Canada, Mr. Patrick Chevalier. The ILZSG/INSG Head of Economics and Environment, Curtis Stewart, is the contact point for the Intergovernmental Forum.

#### **ILZSG PRESENTS AT 17<sup>TH</sup> INTERNATIONAL LEAD CONFERENCE**

The International Lead Association's 17<sup>th</sup> International Lead Conference was held at the Marriott Hotel in Lisbon from 21 to 23 September 2011. The event was attended by over 100 lead industry experts representing 23 countries. During the course of the conference ILZSG Head of Forecasting and Statistics, Paul White, presented a paper on "The World Lead Market: Facts, Fundamentals and Future". For copies please contact the ILZSG secretariat at [paul.white@ilzsg.org](mailto:paul.white@ilzsg.org)

#### **JOINT STUDY GROUP PROJECTS UPDATE**

##### **JOINT METAL STUDY GROUPS' SURVEY IN CHINA ADVANCING**

The current Joint Study Groups' survey of Chinese wire rod and brass mill plants covers copper, zinc, nickel and lead. Information on refined and scrap use and outputs from 95 operational facilities in China is being gathered, covering the period 2005-2011. The final report is expected to be available in early 2012.

##### **NON FERROUS METALS BY-PRODUCTS: NEW JOINT STUDY GROUPS RESEARCH PROJECT**

A proposal to undertake a new study across the three Study Groups to generate information on the by-product metals of copper, lead, zinc and nickel was approved by member countries at their September meetings. The project will gather information on production, usage, trade and other data, which will be compiled and analysed to assess the outlook. By-products metals to be included in the study include indium, germanium, scandium, cobalt, rhenium, tellurium, selenium, rare earths and molybdenum.

### **ICSG SURVEY OF REGULATIONS AFFECTING COPPER PRODUCTS**

ICSG launched the 2011 Edition of ICSG Survey of Regulations Affecting Copper Products and presented a summary to ICSG member countries in September 2011. The survey describes recent regulations affecting the industry ranging from mining codes and taxes to regulation of copper intensive use of products and environmental regulations.

### **SECRETARY-GENERAL ACTIVITIES**

In April the Secretary-General visited India to participate in the completion meetings for the ICSG/CFC/ICA Copper Motor Rotor Project and to meet with senior government officials. In May the Secretary-General and ICSG Chief Statistician attended the International Wrought Copper Council (IWCC) Annual Meeting in Warsaw and held meetings with the Polish government and industry and with the National Statistical Office. The Secretary-General visited Zambia in June to meet with the Mining Minister and senior officials and make a presentation at the 1<sup>st</sup> Zambia International Mining and Energy Conference. The Secretary-General visited Mexico in October to hold discussions with government and industry officials and to make the keynote presentation on "The Industrial Metals Markets: Copper, Zinc, Lead and Nickel" at the XXIX AIMMGM International Convention.

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

In November 2011 the Chief Statistician made a presentation at the 2011 China International Nickel & Cobalt Industry Forum in Nanning City, Guangxi Province, China, hosted by the China Non-ferrous Metals Industry Association (CNIA) and organized by Beijing Antaike Information Development Co. Following the Forum, he visited stainless steel producers and nickel pig iron producers in the region and travelled also to the Republic of Korea and Taiwan.

### **ICSG AT CHINA COPPER FUTURES CONFERENCE**

In September the ICSG Head of Environment and Economics, Mr Carlos Risopatron, visited China and delivered a detailed presentation on future global copper mine production and mine capacity plans for existing mining operations, new mines, feasibility studies and exploration projects. The presentation was made in Shenzhen, China as part of the China Non Ferrous Metals Commodities and Futures Interactive Conference, organized by Shanghai Futures Exchange and Jiangxi Copper Corporation.

### **FREE ACCESS TO THE OneMine GLOBAL LIBRARY**

Free access to the OneMine library has been made available to members of ILZSG on a temporary basis. OneMine was set up through the Society for Mining, Metallurgy, and Exploration, (SME) and provides access to a vast number of publications related to mining and metals in an online, global mining and minerals library. A presentation on OneMine was delivered at the September 2011 meeting by Mr. Dave Godlewski of Teck America. Members may learn more at [www.onemine.org](http://www.onemine.org). For information on how to access the library please contact Mr. Greg Tiedeman at OneMine at [info@onemine.org](mailto:info@onemine.org) or the ILZSG secretariat at [curtis\\_stewart@ilzsg.org](mailto:curtis_stewart@ilzsg.org).

### **TWO NEW COMMON FUND FOR COMMODITIES PROJECTS FOR ZINC APPROVED**

In June 2011 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. Separately, the CFC approved a further phase in the ongoing zinc galvanizing project which began in China. The newly-approved phase 4 of the project will disseminate previously developed training tools, pre-audit and audit protocols and benchmarks for hot dip galvanizing to India, Bangladesh and Nepal. Further information is available from [curtis\\_stewart@ilzsg.org](mailto:curtis_stewart@ilzsg.org).

## Forthcoming Events

### MEETINGS, CONFERENCES and SEMINARS

**The United Nations Conference on Trade and Development (UNCTAD) Multi-year Expert Meeting on Commodities and Development - Fourth Session** will be held in Geneva, Switzerland on 25–26 January, 2012. Further information can be obtained from Mr. Samuel Gayi, Head of the Special Unit on Commodities, UNCTAD e-mail: [samuel.gayi@unctad.org](mailto:samuel.gayi@unctad.org)

**2012 International Zinc Conference and 2012 International Zinc Oxide Industry Conference** will be held at the Westin Mission Hills Resort & Spa Rancho Mirage, California, USA, February 19-22, 2012. The 2012 International Zinc Oxide Industry Conference is being held in conjunction with the International Zinc Conference, providing a unique opportunity to learn about new research and market trends. These are two separate conferences, however, a special package rate will be granted to those attending both conferences. Registration details and a preliminary program are available on the [conference website](#).

**The United Nations Conference on Sustainable Development (UNCSD)** will take place in Brazil on 20-22 June 2012 to mark the 20th anniversary of the 1992 United Nations Conference on Environment and Development (UNCED), in Rio de Janeiro, and the 10th anniversary of the 2002 World Summit on Sustainable Development (WSSD) in Johannesburg. The objective of the Conference is to secure renewed political commitment for sustainable development, assess the progress to date and the remaining gaps in the implementation of the outcomes of the major summits on sustainable development, and address new and emerging challenges. For further information see: <http://www.uncsd2012.org/rio20/index.php?menu=17>



# PUBLICATIONS

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

## NEW

### **INSG World Directory of Nickel Production Facilities 2011**

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 November 2011.*

## 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 March 2011.*

## NEW

### **Lead and Zinc New Mine and Smelter Projects 2011**

This 73 page report covers lead and zinc mines and smelters opened or closed during 2010, firm projects currently committed and other projects under consideration. Developments in 48 countries throughout all the continents are covered with over 200 separate entries. In addition, where available, estimates of ore reserves and the percentages of the metals they contain are also given. *Published January 2011.*

## NEW

### **ICSG 2011 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 Sept 2011.*

## NEW

### **World Directory 2011: Primary and Secondary Lead Plants**

An overview and full detailed listing of over 270 primary and secondary lead smelters and refineries in 66 countries showing addresses, telephone and fax nos., e-mail, web addresses, types of plant operated and current capacities. Also includes, summary tables and graphs. 105 pages. *Published May 2011.*

## NEW

### **Directory of Copper & Copper Alloy Fabricators (First Use) 2011**

This directory provides a systematic global overview of companies and plants involved in the first use of copper. First users are mainly semi-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. Includes a complete update of the new plants operational in China in 2011. *Published July 2011.*

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**NEW**

**Environmental and Health Controls on Zinc: 2011**

A review of current and proposed regulations controlling zinc in works, zinc in the atmosphere, zinc in water and recommended daily dietary allowance for humans and animals. Available in PDF or spreadsheet form. *Published June 2011.*

**NEW**

**Environment and Health Controls on Lead: 2011**

A review of current and proposed regulations controlling lead in works, lead in the atmosphere and lead in water in 34 countries. Available in PDF or spreadsheet form. *Published June 2011.*

**NEW**

**INSG Environment, Health and Safety (EHS) Regulations Relating to Nickel 2011**

An update of the annual 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 2011.*

**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.*

**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.*

**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.*

**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 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.*

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**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.*

**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. *Published December 2010.*

**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.*



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**2011 World Nickel Yearbook**

Published once a year usually in November the Nickel Yearbook contains annual data for the latest available 11-year period. The Yearbook is available separately or as part of the annual subscription to the monthly statistics bulletin.

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