

IZA Overview

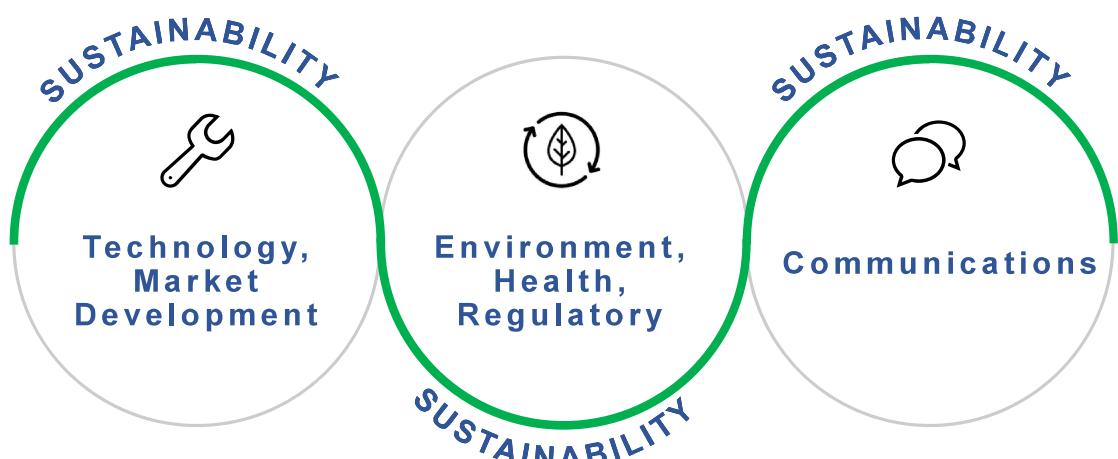
Andrew Green
Executive Director



IZA Locations and Members



IZA's Core Program Areas



Women in Zinc

Connect



Create networking opportunities at IZA events

Organize meetings with company board members

Connect with other networks

Create regional chapters

Support



Share knowledge via mailings

Mentorship for young professionals

Fireside Chats with Industry Leaders

Promote

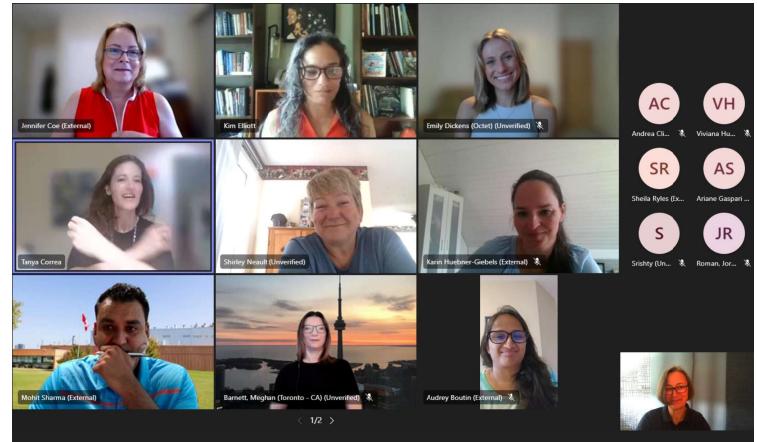


Place WIZ on IZA Website and in Social Media posts

Flag job opportunities

Scholarships for conferences

Virtual WIZ Coffee Chats



- Participants (both calls): 30
- IZA member company reps: 14
- Non IZA member companies: 5
- Partner organizations: 2

- Double participation (in both calls): 2
- IZA staff: 8
- Male participants: 1

ZINC international zinc association

International Zinc Association
8,290 followers
4w

1. Volunteer and stick your hand up.
2. Tell people where you want to go.
3. It's more important to be in the room than to worry about being the only woman in the room.

These insights from our Fireside Chat with [Elaine Dorward-King](#) made for an educational and enjoyable Women in Zinc event. Elaine, who served as a top mining executive in environment as well as health and safety at mining companies including [Rio Tinto](#) and [Newmont Corporation](#), answered questions from moderator [Kim Elliott](#) and some of the more than 30 participants. Elaine shared her experience as a female trailblazer in the mining industry and why this important vocation can be a rewarding one. For those who joined our call, what your favorite takeaway?

#zinc #ZincForTheFuture

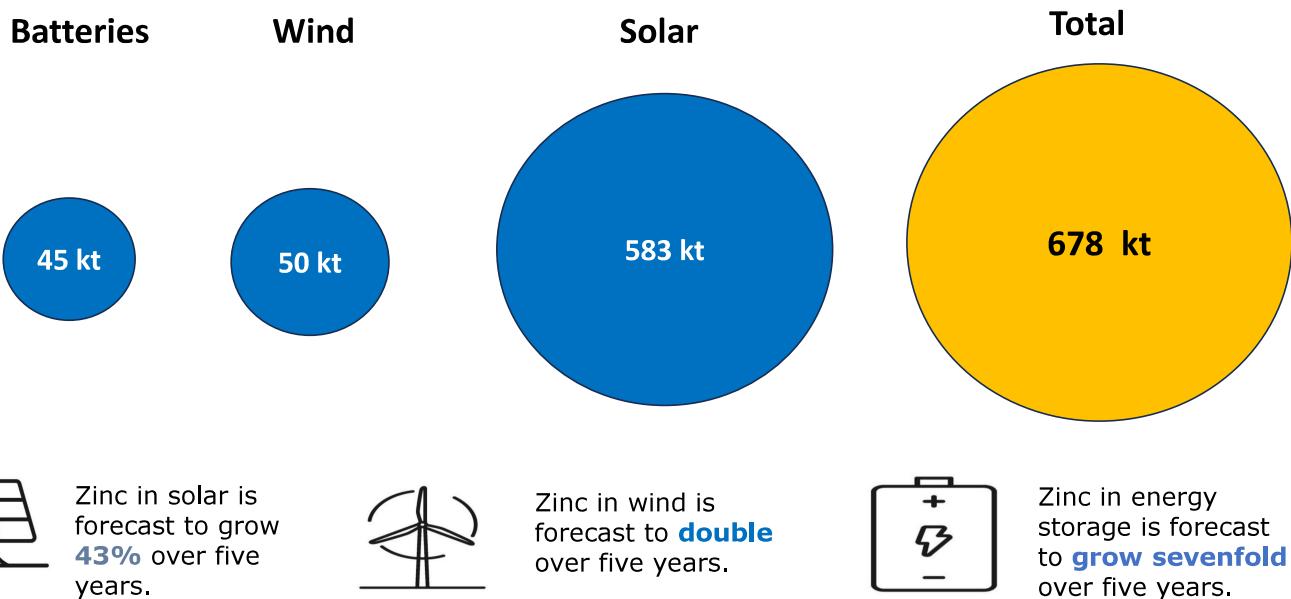
Fireside Chat with Elaine Dorward-King

- 33 Participants from Europe and North America, known and unknown

ZINC international zinc association

Zinc in Energy Transition by 2030

(McKinsey, CRU, Wood Mackenzie)



Zinc Battery Initiative

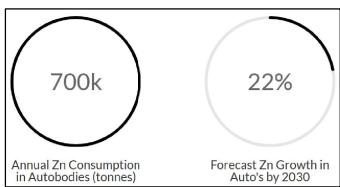


Suppliers



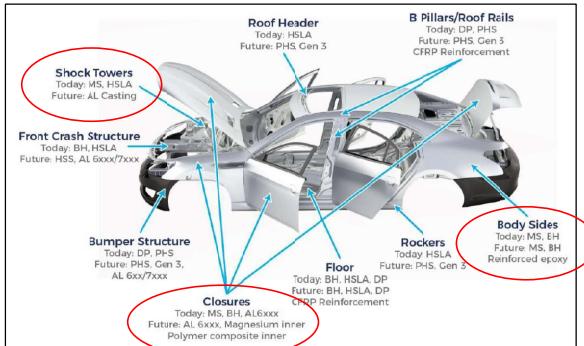
Automotive Steel

Ana Paula Domingos



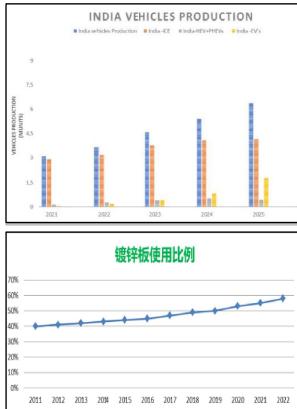
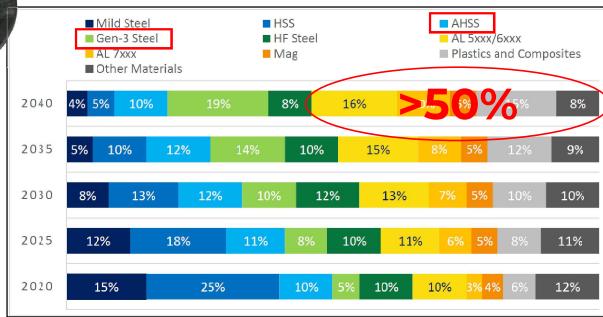
Annual Zn Consumption in Automobiles (tonnes)

Forecast Zn Growth in Auto's by 2030



Source: Center for Automotive Research, Ann Arbor, Michigan USA, 2019

Market Assessments



Zinc Die Casting

Didier Rollez

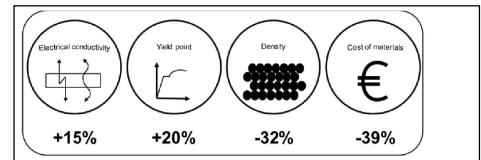
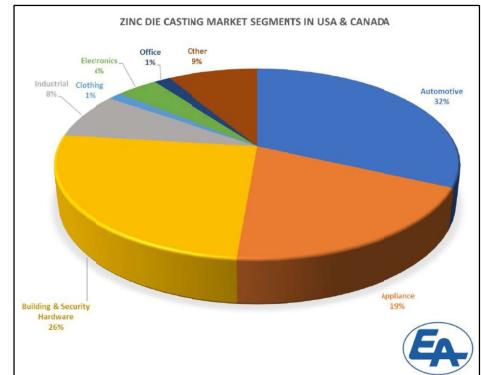
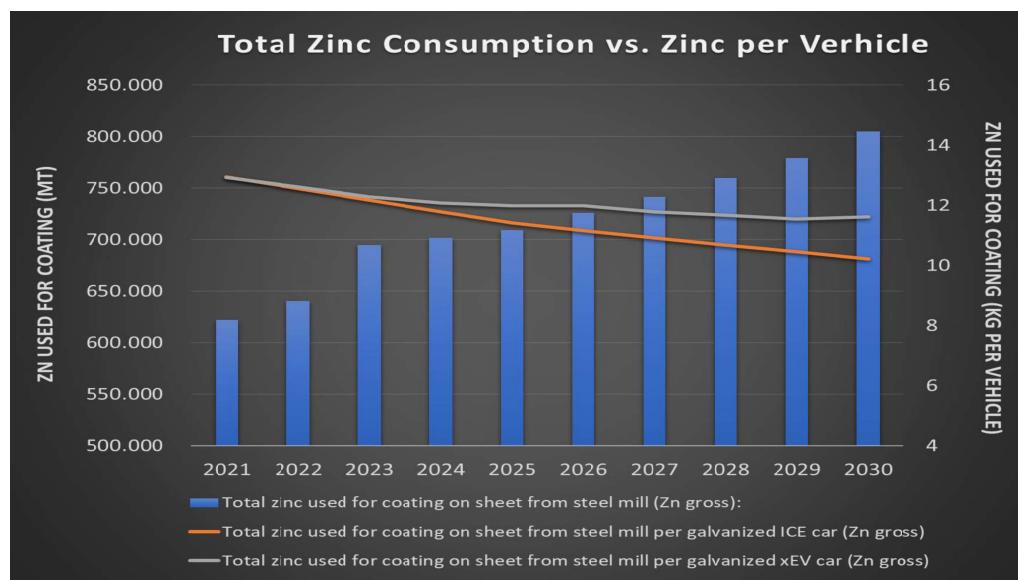


Figure 1. Advantages of extruded zinc alloy ZEP1510 compared to brass CuZn39Pb3.

Automotive Zinc Consumption Outlook





ZINC ENABLES
DECARBONIZATION

Program with Benjamin Cox - Univ. British Columbia



Key Objectives

- Quantify & monetize value of zinc in reducing carbon emissions:
 - housing/roofing
 - infrastructure
 - automotive

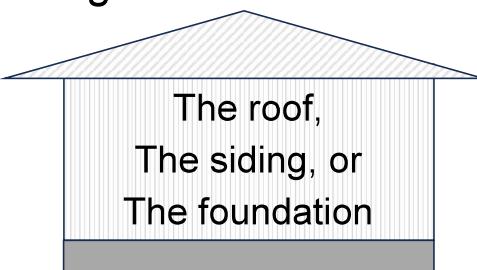


ZED Comes First in Decarbonization!



ZINC ENABLES
DECARBONIZATION

Housing fails for three reasons



Value In Use* of galvanized products average
600 tCO₂e saved / t Zn used

*(safety, climate reductions, and directs costs)

Zinc is Insurance for Uninsurable Assets!

- White Galvanized Roofing

- Total Value In Use = \$25,600/roof
- CO2e savings = 20-40 t/roof
- 10% USA market penetration = 600 Kt Zn installed!

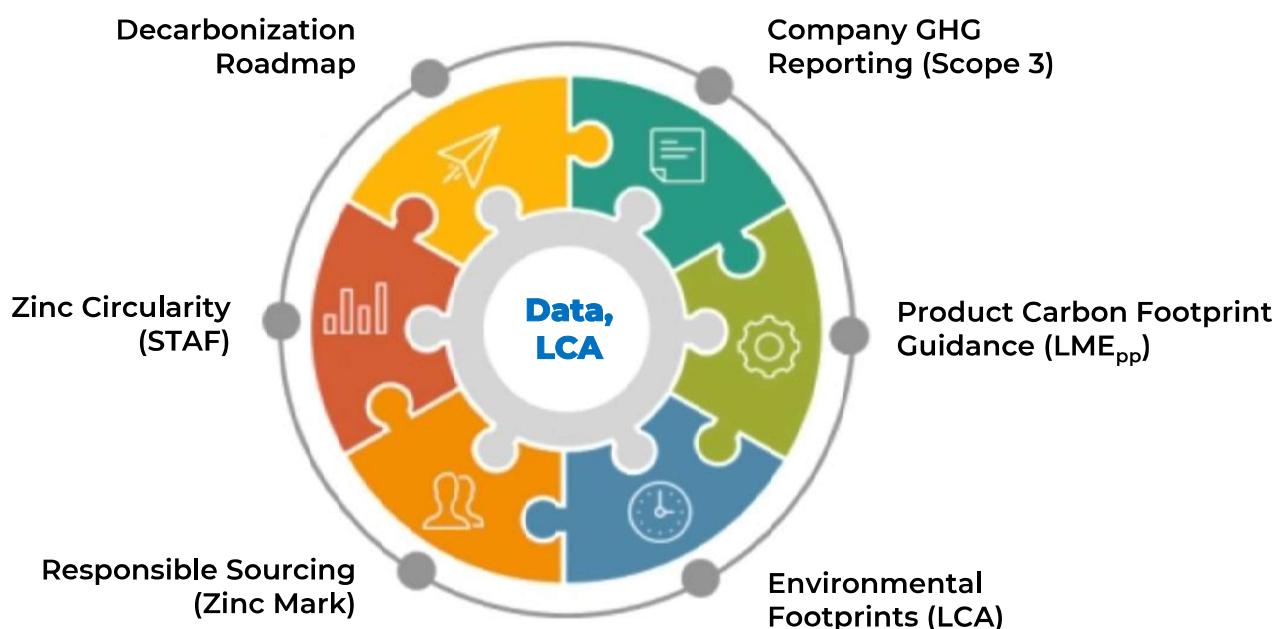
- Galvanized Rebar in Home Foundations

- CO2e savings >200 tCO2e / t Zn used
- ~\$150 of Zn provides >100-year insurance and
>\$100K Value In Use
- 4.4% global rebar market for all uses = 1 Mt Zn/yr!



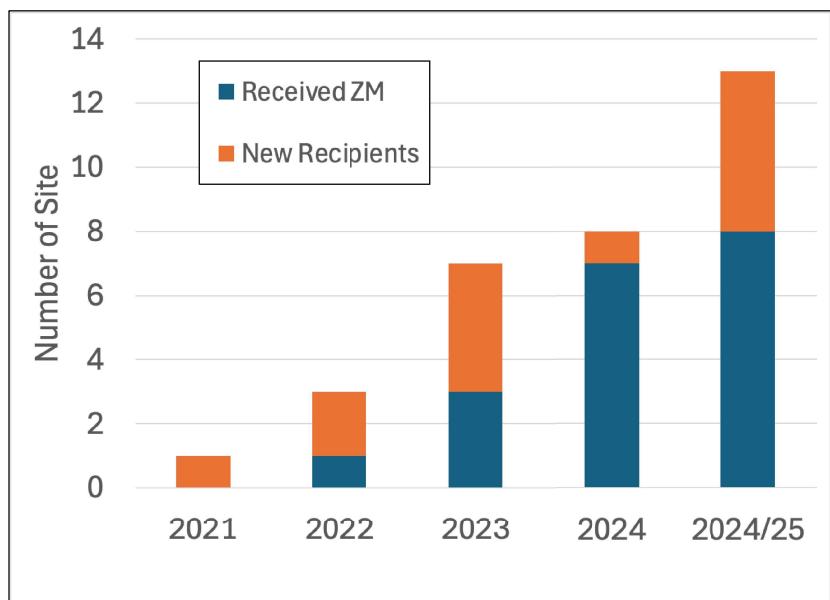
ZINC | international zinc association

Zinc Sustainable Development



Zinc Mark Progress

- Officially launched early 2023
- Mining, smelting, secondaries
- ZM and JDDS officially OECD aligned

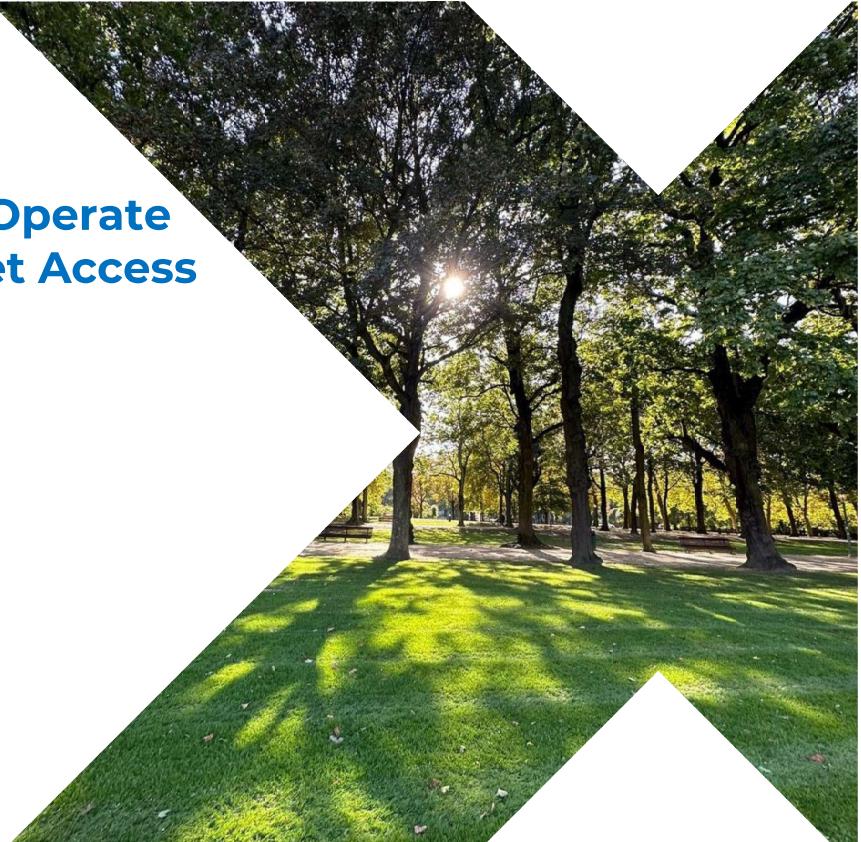
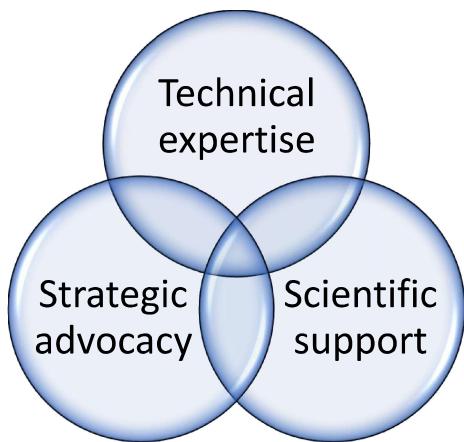


ZINC | international zinc association

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Regulatory

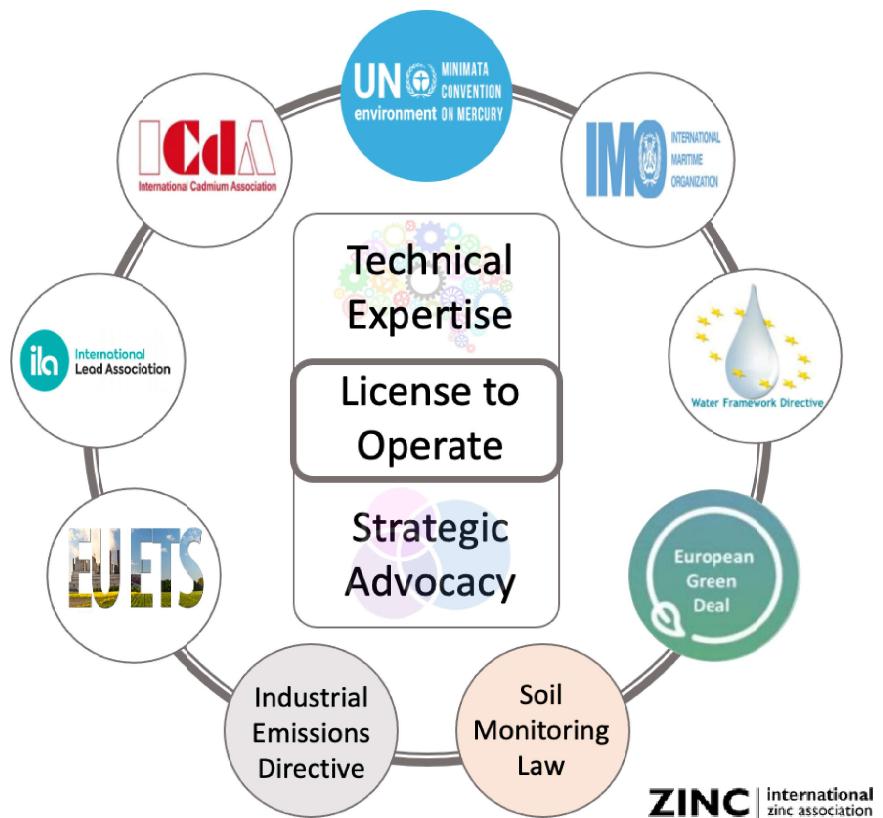
- Ensure **Global License to Operate**
- Maintain and Grow **Market Access**



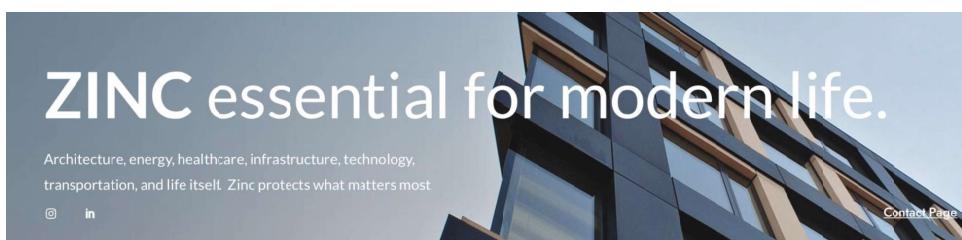
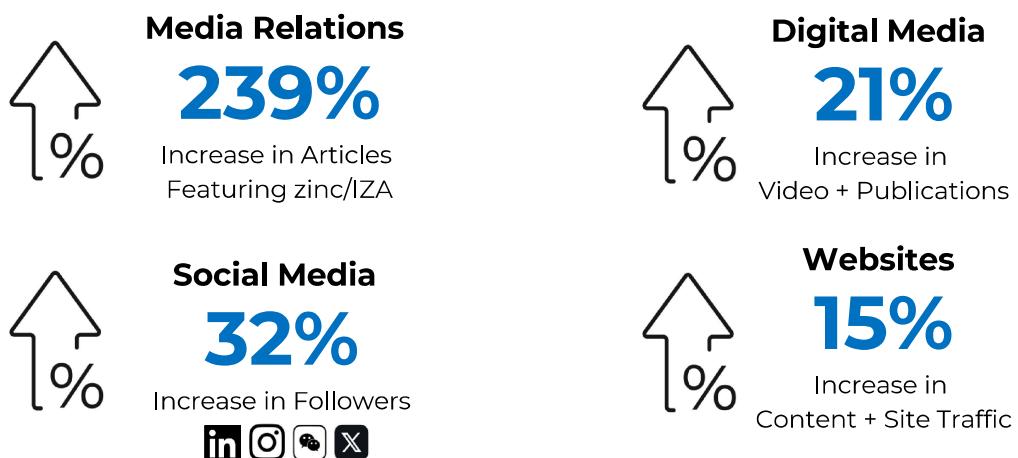


Global and Cross-Cutting Regulatory Issues

- Mercury Waste Thresholds Accepted
- Self-Classification Tools for IMO
- EU Member State Advocacy
- Best Available Science/Technology
- Emissions Accounting
- Mitigate Financial Impacts
- Co-/By-product Management
- Green Deal Ambition



Communication Highlights



IZA 2024 Conference Locations



IZA Full Members



IZA Affiliate Members

ABCO DIECASTERS
 ABOUND ENERGY INC.
 A.K. STEEL, U.S.A.
 ANDRIZ-SELAS
 ARCELORMITTAL
 ARTAZN
 AZA BATTERY
 AZZ METAL COATINGS
 BASETRADE GLOBAL
 BATRICITY INC.
 BEIJING XINHEFENG AGRO-CHEMICAL COMPANY
 BOHIGH ZINC PRODUCT
 CARTERET DIE CASTING CORP
 CLECIM FRANCE
 COMMERCIAL METALS COMPANY—GALVABAR
 COMMET
 CORBEC
 COREZINC S.R.O.
 COROMANDEL INTERNATIONAL
 CORPORACION ACEROS AREQUIPA
 COULOMB TECHNOLOGY
 DAYAL FERTILIZERS
 DECO PRODUCTS

DCK GROUP
 DENRO CORPORATION
 DIAMONCHEM
 DREVER INTERNATIONAL
 EASTERN ALLOYS
 EASYLZINC
 ELORO RESOURCES LTD.
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 ENERPOLY AB
 ENZINC, USA
 EOS ENERGY ENTERPRISES
 E-ZINC, CANADA
 FIELDING MFG FERROFACTA GMBH
 FLAUREA CHEMICALS
 FORD MOTOR CO.
 FORM TECHNOLOGIES
 FORT RECOVERY INDUSTRIES INC
 FORTUNE ENVIRONMENTAL TECHNOLOGY
 FRECH USA
 GENERAL MOTORS
 GRACELAND INDUSTRY PTE LTD
 GREENNOVO ENVIRONMENTAL TECHNOLOGY
 HAKUSUI TECH CO, LTD,
 HENEKEN MAZAK S.R.O.,
 HILABS GMBH
 HUBEI FORBON TECHNOLOGY CO
 HYUNDAI STEEL CO. (& RESEARCH)
 IMPRINT ENERGY INC.
 IMR METAL POWDER TECHNOLOGIES
 INDUSTRIAL STEEL CONSTRUCTION
 ISKY CHEMICALS CO.LTD
 IXM
 JG CHEMICALS
 JEAN GOLDSCHMIDT INTERNATIONAL
 JIANGSU HUACHANG CHEMICAL CO.
 JIANGSU YOUPA STEEL PIPE CO., LTD
 KEODS (FIVE GROUP)
 KINGENTA ECOLOGICAL ENGINEERING
 KOPF HOLDING GMBH,
 LAKESIDE CASTING
 LEE KEE GROUP LIMITED
 LIMPACT INTERNATIONAL LIMITED
 LUXI CHEMICAL GROUP CORPOR.
 MAHADHAN AGRITECH
 MARIO PILATO BLAT S.A.
 MATELLUS,
 MCC NON-FERROUS TRADING
 METALS CHEMICALS MAASTRICHT
 MINECO LIMITED
 MINIATURE CASTING

IZA Affiliate Members

MITTAL STEEL U.S.A. – INDIANA HARBOR	S.B.E. Metals DBA / S.B. Enterprises	TRANSVAAL GALVANIZERS
NANDAN NANFANG NONFERROUS METAL COMPANY	SERV-ALL	TRILAND METALS LIMITED
NIPPON SHOKUBAI CO.,LTD.,	SHENZHEN BATIAN ECOTYPIC ENGINEERNG	UNITED STATES STEEL CORP.
NUCOR STEE	SHENZHEN ZHONGJIN LINGNAN NONFEMET CO.	URBAN ELECTRIC POWER
NV BEKAERT SA	SHIIAZHUANG LONGLI CHEMICAL	USS POSCO INDUSTRIES
OCEAN PARTNERS INC.	SINOFERT/SINOCHEM HOLDINGS LIMITED	VALMONT COATINGS
OCTET SCIENTIFIC	SOLDY MANUFACTURING	VERTIG ZINC WIRE OY
POSCO	SMM INFORMATION & TECHNOLOGY	VOEST-ALPINE STAHL
PRINTED ENERGY	SSAB TUNNPLAT	VOLCAN METAL & MINING CO.
PRODUCTION CASTINGS INC.,	STANLEY FERTILIZERS	WIEGEL VERWALTUNG GMBH
PUNIA GROUP OF INDUSTRIES	STEEL DYNAMICS	WN ASSOCIATE COMPANY LIMITED
PURITY ZINC METALS	STEELSCAPE INC/BLUE SCOPE	YARA FERTILIZERS
NEW FERTILIZER TECHNOLOGIES	SULPHUR MILLS LIMITED	YUNNAN CHIHONG ZN & GE
RALLIS INDIA LIMITED	TANGSTEEL	YUNNAN XIANGYUN FEILONG RECYCLING TECHNOLOGY CO.
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REAZN	TERNIUM	ZELOS ENERGY LTD
REDFLOW LIMITED	TERMOMECHANICA SAO PAULO SA	ZHAOQING HONGYANG STEEL STRUCTURE HDG
RICKER METALS, INC.	THE COATING COMPANY HOLDING	ZHONGSHAN HIZINCO MATERIAL SCIENCE&TECHNOLOGY
RIO TINTO MINERALS	THE PLATT BROTHERS & CO	ZHUZHOU SMCETER
RM PHOSPHATES & CHEMICALS	THE TECHS	ZINC FIVE
RUMBLE RESOURCES LIMITED	THYSSENKRUPP STAHL	ZINCO GROUP
SALIENT ENERGY	TIBET SUMMIT RESOURCES CO. LTD	ZINGAMETALL
SALZGITTER MANNESMANN FORSCHUNG	TITAN COMPANY	ZINPRO CORPORATION
	TRANSAMINE TRADING S.A.	ZINQ TECHNOLOGIE GMBH