

IARC 2018

www.icm.ch

18th International Automobile Recycling Congress IARC 2018

March 14 – 16, 2018, Vienna, Austria



Patronage:

- Association of European Automotive and Industrial Battery Manufacturers (EUROBAT)
- Austrian Federal Ministry of Agriculture, Forestry, Environment and Water Management
- Automotive Recyclers Association (ARA)
- Automotive Recyclers of Canada (ARC)
- Confederation of European Waste-to-Energy Plants (CEWEP)
- European Association of Automotive Suppliers (CLEPA)
- European Automobile Manufacturers' Association (ACEA)
- European Group of Automotive Recycling Associations (EGARA)
- European Recycling Industries' Confederation (EuRIC)
- Japan Automobile Manufacturers Association (JAMA)
- Japan Automotive Recyclers Association (JARA)
- Metallurgical Council of China Council for Promotion of Int'l Trade (MC-CCPI)
- PlasticsEurope





FOREWORD

MANFRED BECK

Chairman of the Steering Committee International Automobile Recycling Congress

One of my most favourite songs of the late German singer Hildegard Knef is called "Ich brauch Tapetenwechsel", which means "I need a change of scenery". The International Automobile Recycling Congress is also changing its destination: after three years in Berlin, IARC 2018 will take place in the Austrian capital of Vienna. World famous for its beauty, architecture and music, the city of Mozart and Strauss is a great venue for our event.

IARC 2018, by many actors in the car recycling chain considered as the most important and most informative meeting in the world, is once again expected to attract hundreds of car recyclers and a host of other interested parties such as car manufacturers and also local and European-level politicians, among others. Attendees will converge on the Austrian capital of Vienna to hear about latest relevant develop-

ments from politicians as well as from experts in the vehicle manufacturing and recycling arenas.

Keynote speakers

We are delighted that the congress will be opened by two excellent keynote speakers.

The first, DI Christian Holzer of the Austrian Federal Ministry of Agriculture, Forestry, Environment and Water Management, will explain "How Austria enforces its regulations regarding car recycling".

In his presentation "The world of dismantling – BIGGER than you think", our second keynote speaker, Joseph M. Holsten, Chairman of the Board of LKQ, the biggest car recycling company in the world, will elaborate on new possibilities of business avenues such as trucks, motorbikes, trains, aircraft and more, including recycling, refurbishing, repurposing and remanufacturing.

Our third keynote speaker, on Thursday, is Christophe Pillot from Avicenne Energy of France, who will discuss "The e-mobility market – a challenging future for batteries".

Hot topics

During the three-day event, among other things, the following topics will be addressed:

- Country reports: ELV recycling in Austria, Japan and the USA;
- Legislation – The future of the ELV Directive after the final report on ELVs of unknown whereabouts; and Proposals for a revision of the EU ELV Directive;
- Challenges of the Circular Economy – Requirements from an automotive perspective; Plastics recovery targets at risk; Challenges arising from POP containing materials in ELVs;
- Technologies: Plastics recycling; Bringing automotive scrap back into

the value chain; USA market automobile recycling; Diesel Exhaust Treatment for recyclers and more;

- New materials;
- E-mobility – How Febelauto in Belgium fills in the extended producer responsibility for batteries of hybrid an electrical vehicles; How to transport, store and recycle end-of-life vehicles safely; A systematic view of the electrical vehicle market in Finland; Zero cost solutions for industrial li-ion end-of-life batteries;
- Dismantling – Battery safety solutions in the world of e-mobility; Decision making in car dismantling and recycling.

Plant tours

For the day after the congress, the organisers have planned interesting plant tours to leading companies in the recycling industry:

- Energie- und Abfallwertungs Gesellschaft in Niklasdorf, a mod-

ern power plant which focuses on energy and raw materials from waste.

- Gebrüder Gratz, a state-of-the-art scrap yard in Upper Austria.
- Müller-Guttenbrunn Group in Amstetten/Kematen. Attendants will visit the shredder plant of MGG Metrec, the post-shredder treatment plant of MGG Metran and the plastic recycling plant of MGG Polymers.

Networking

And, of course, no congress can succeed without sufficient networking opportunities. IARC 2018 has an exciting array of coffee breaks, lunches, cocktail receptions and a networking dinner in "Vienna Ballroom" style.

I look forward to welcoming you to IARC 2018 in Vienna.

INTERNATIONAL STEERING COMMITTEE



MANFRED BECK
Chairman
Recycling Consultant
Netherlands



JAN BOLLEN
ArcelorMittal Europe
Environmental &
Climate Change affairs
Manager
Belgium



STEVE HOPE
Toyota Motor Europe NV/SA
General Manager
Environmental Affairs and
Corporate Citizenship
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Industrial Battery
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Altautoentsorgungs- und
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General Manager
Austria



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CEO
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JOSEPH M. HOLSTEN
LKQ Corporation
Chairman of the Board
USA



RICHARD PAUL
Environmental
Management
Consultant
USA

KEYNOTE SPEAKERS

DI CHRISTIAN HOLZER

Federal Ministry of Agriculture, Forestry, Environment
and Water Management
Director General
Department V – Waste Management, Chemicals
Policy and Environmental Technology
Austria

“How Austria Enforces its Regulations
Regarding Car Recycling”

CHRISTOPHE PILLOT

AVICENNE ENERGY
Director
France

“The E-Mobility Market: A Challenging
Future for Batteries”

JOSEPH M. HOLSTEN

LKQ Corporation
Chairman of the Board
USA

“The World of Dismantling – BIGGER
Than you Think”



LOCATION & ACCOMMODATION

A number of rooms are held at discounted rates for participants of the congress registering before **January 31, 2018**. If you wish, you may also extend your stay at this lovely hotel at the same rate.



The 18th International Automobile Recycling Congress IARC 2018 will be held from March 14 – 16, 2018 in the Vienna Marriott Hotel in beautiful Vienna. The hotel is ideal located, only moments away from the Vienna Opera House, St. Stephen's Cathedral and much more.

Vienna International Airport is located about 16 km east of Vienna in Schwechat. The city center can be reached within a 20 minutes ride by public transport or taxi.



With more than 1.8 million inhabitants Vienna situated on the Danube is the seventh largest town of the European Union. Architecturally Vienna is stamped by the "Baroque and Jugendstil" with the wonderful buildings around the Viennese ring road which derived from period of promoterism.

Vienna Marriott Hotel*****
Parking 12a
1010 Vienna
Austria

Phone +43 1 515 180
www.viennamarriott.com

IMPORTANT NOTICE:

We have been alerted that unofficial housing providers are trying to contact IARC delegates and exhibitors claiming to be associated to ICM and can secure hotel rooms at the Hotel Palace Berlin. These companies are not authorized to represent ICM nor IARC. Please note that we have no affiliation with any housing coordinator. If you have any concerns, contact us at info@icm.ch.



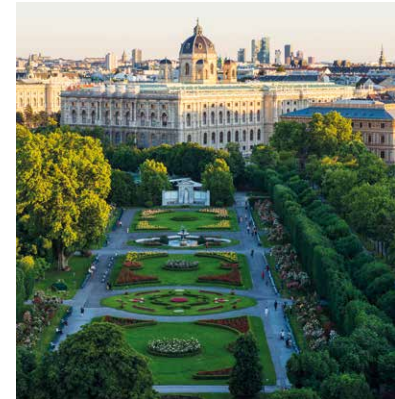
VIENNA – A CITY OF PROUD PALACES AND PEACEFUL PARKS, A HOME TO EMPERORS AND ART, STRAUSS AND SISSI

There are many good reasons to travel to Vienna: The city is world famous for its magnificent imperial heritage, for Schönbrunn Palace, Belvedere Palace and Hofburg Palace.

Vienna scores like no other city with its exceptional music and cultural programme in concert halls, museums and on stages from the Golden Hall in the Musikverein to the renowned Kunsthistorische Museum (Museum of Art History) right up to the Vienna State Opera. Vienna is also synonymous with a tradition of refined tasteful enjoyment which has established itself over centuries in the coffee houses and wine taverns.

And last but not least, over half of Vienna's urban area is made up of relaxing green spaces, parks and gardens, the Vienna Woods and the Danube Floodplains.

A walk through Vienna is like going on a journey through time to the imperial past. No wonder the historical city centre was named a world heritage site by UNESCO. Vienna boasts more than 27 castles and 163 palaces. On every corner you can discover valuable cultural artefacts or dream of the good old imperial period in a coffeehouse.



www.vienna.convention.at



CONGRESS PROGRAM IARC 2018

TUESDAY, MARCH 13, 2018

17.00 – 19.00 Pre-Registration

WEDNESDAY, MARCH 14, 2018

08.00 – 09.15 Registration and welcome coffee in the exhibition area

09.15 – 10.30 "Welcome and introduction"
Manfred Beck, Chairman of the Steering Committee

KEYNOTE SPEAKERS

"How Austria Enforces its Regulations Regarding Car Recycling"
DI Christian Holzer, Federal Ministry of Agriculture, Forestry, Environment and Water Management, Austria

"The World of Dismantling – BIGGER Than you Think"
Joseph M. Holsten, LKQ Corporation, USA

10.30 – 11.00 Coffee break in the exhibition area

Legislation – The EU ELV Directive

Session Chairman: Willy Tomboy, RECHARGE, Belgium

11.00 – 11.30 "The Future of the ELV Directive"
Artemis Hatzl-Hull, European Commission, Belgium

11.30 – 12.00 "A New ELV Directive – Proposals a Major Challenge"
Dr Beate Kummer, Scholz Recycling GmbH & Co. KG, Germany

12.00 – 13.30 Lunch in the exhibition area

Circular Economy – Challenges Ahead

Session Chairman: Julien Van Damme, Honda Motor Europe Ltd., Belgium

13.30 – 14.00 "Circular Economy – Requirements from an Automotive Perspective"
Dr Jens Warsen, European Automobile Manufacturers' Association – ACEA, Belgium

14.00 – 14.30 "ELV and WEEE Plastics Recycling – Recovery Targets at Risk"
Chris Slijkhuis, Müller-Guttenbrunn Group, Austria

14.30 – 15.00 "Challenges for Recycling Arising from POP Containing Material in ELVs"
Olivier François, Group GALLOO Recycling, Belgium, Member of EuRIC

15.00 – 15.30 Coffee break in the exhibition area

Country Reports

Session Chairman: Richard Paul, Environmental Management Consultant, USA

15.30 – 16.00 "25 Years Recycling of End-of-Life Vehicles in Austria"
Walter Kletzmayr, ARGE-Shredder GmbH, Austria

16.00 – 16.30 "The Barriers for Moving Forward to Circular Economy in Japan"
Kazunori Kitagawa, Japan Productivity Center, Japan

16.30 – 17.00 "Impacts of Natural Disasters on the U.S. Shredding Industry"
Adina Renee Adler, Institute of Scrap Recycling Industries, Inc. (ISRI), USA

19.00 Meeting point in the hotel lobby of the Vienna Marriott Hotel

19.15 Cocktail reception & networking dinner at the famous Kursalon (a 5 minutes walk from the congress hotel)

Technology I

Session Chairman: Joseph M. Holsten, LKQ Corporation, USA

"How to Boost Plastics Recycling in the Automotive Industry"
Clemens Kitzberger, EREMA Group GmbH, Austria

"Metallo Group – Bringing Automotive Scrap Back Into the Value Chain"
Jurgen van Gorp, Metallo Belgium N.V., Belgium

"USA Market Automobile Recycling"
Rajesh S. Desor, Adams Scrap Recycling, USA



CONGRESS PROGRAM IARC 2018

THURSDAY, MARCH 15, 2018

08.00 – 09.00 Welcome coffee in the exhibition area

	Future New Materials Session Chairman: Catherine Lenaerts, Febelauto, Belgium	Technology II Session Chairman: Ferdinand Kleppmann, CEWEP e.V., Germany
09.00 – 09.30	"New Steels Driving the Circular Economy, Innovative Solutions for Future Mobility" Jan Bollen, ArcelorMittal Europe, Belgium	"Diesel Exhaust Treatment – A Challenge for Recycler" Oliver Krestin, Hensel Recycling GmbH, Germany
09.30 – 10.00	"AR415 – The 'Missing Link' for 100% Recycling and Recovery" Franz Neubacher, UVP Environmental Management and Engineering GmbH, Austria	"Predictability of Scarce Technology Metals (STM) Content in the Shredder Light Fractions (SLF) from End of Life Vehicle's (ELV) Treatment" Eliette Restrepo, EMPA, Switzerland
10.00 – 10.30	"Shredding End-of-Life Vehicles to Evaluate Metal Recovery Rates" Dr Gaël Fick, IRT M2P, France	"Cleaner Air Brings Increasing Complexity in Autocat Recycling" Thierry Van Kerckhoven, Umicore Precious Metals Refining, Belgium
10.30 – 11.00	Coffee break in the exhibition area	

KEYNOTE SPEAKER	
11.00 – 11.30	"The E-Mobility Market: A Challenging Future for Batteries" Christophe Pillot, AVICENNE ENERGY, France

E-Mobility Challenges I Session Chairman: Steve Hope, Toyota Motor Europe NV/SA, Belgium	
11.30 – 12.00	"To Be or Not Be Charged: The Way Febelauto Fills in the Extended Producer Responsibility for Batteries of Hybrid and Electrical Vehicles" Catherine Lenaerts, Febelauto, Belgium
12.00 – 12.30	"How to Transport, Store and Recycle End of Life E-Vehicles Safely" Roger Burri, BLUBOX Trading AG, Switzerland
12.30 – 13.00	"An Economic and Environmental Assessment of Hybrid-Electric Vehicle Motors" Gwendolyn Bailey, KU Leuven University, Belgium
13.00 – 14.30	Lunch in the exhibition area

Car Dismantling Issues Session Chairman: Francesco Bonino, Fiat Chrysler Automobiles, Italy	
14.30 – 15.00	"Battery Safety Solutions in the World of E-Mobility..." Johan van Peperzeel, Van Peperzeel B.V., Netherlands
15.00 – 15.30	"Decision Making in Car Dismantling and Recycling" Dr Alexandra Pehlken, Carl von Ossietzky University, Germany
15.30 – 16.00	Coffee break in the exhibition area
E-Mobility Challenges II Session Chairman: Dr Ruggero Alocci, Alocci Rappresentanze Industriali, Italy	
16.00 – 16.30	"False Expectations or Calm Before the Storm? A Systemic View of the Electric Vehicle Market in Finland" Dr Jarkko Vesa, Not Innovated Here – Laboratory of Creative Destruction, Finland
16.30 – 17.00	"Zero Cost Solution for Industrial Li-ion End of Life Batteries" Eric Nottez, SNAM, France
17.00 – 17.15	"Wrap-up / Closing Remarks" Manfred Beck, Chairman of the Steering Committee
from 17.15	Farewell reception in the exhibition area

REGISTER BY
JAN. 31, 2018
AND PROFIT FROM
DISCOUNTED RATES

NETWORKING DINNER "VIENNA WALZ"

Join us on Wednesday, March 14, 2018 at a memorable networking dinner at the historical location "Kursalon" where the Vienna Ring Boulevard meets the Green of the City Park, one of the most exclusive and splendid buildings of Vienna – accompanied by classic waltz dance.

Do not miss this perfect opportunity to socialize with your business partners and register for this evening now!



Dance with friends
and business partners in
a nice atmosphere!



Participants registering and paying **before January 31, 2018** will benefit from a reduced registration fee. The registration fee includes congress, entrance to the exhibition, proceedings and luncheons.

REGISTRATION FEES

	before Jan. 31, 2018	after Jan. 31, 2018
Congress fee		
Fee for participants	EUR 1'590.–	EUR 1'690.–
Fee for speakers	EUR 990.–	EUR 1'090.–
Fee for students*	EUR 690.–	EUR 790.–
*only with valid student card and age below 30		
Networking dinner (March 14, 2018)	EUR 100.–	EUR 120.–
Networking dinner spouse (March 14, 2018)	EUR 120.–	EUR 150.–
Plant tours (March 16, 2018)		
Energie- & Abfallverwertungs Gesellschaft m.b.H.	EUR 50.–	EUR 70.–
Gebrüder Gratz GmbH	EUR 50.–	EUR 70.–
Müller-Guttenbrunn Group	EUR 50.–	EUR 70.–

All prices excl. 20% Austrian VAT

Congress registration on site EUR 100.– surcharge

Online registration

You may also register online at: www.icm.ch/iarc-2018

Proceedings

If you cannot attend the congress, you may purchase the complete proceedings at EUR 350.–. Participants will get the proceedings free of charge.

Payment

Payment should be made in EUR by bank transfer or by credit card.

EXHIBITION AND POSTER PRESENTATIONS



The exhibition area provides your company with the perfect opportunity to reach key industry decision makers. Promote your products and services to all congress attendees. The fees are:

Booth 6 m² (2 m x 3 m)	EUR 3'690.-
Poster presentation (wall rental)	EUR 390.-
Display board (0,85 m x 2 m)	EUR 690.-

Space is limited, book today!



EXHIBITORS AS PER DECEMBER 1, 2017



„WE MAKE CAR RECYCLING
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PLANT TOUR

FRIDAY, MARCH 16, 2018

ENERGIE- UND ABFALLVERWERTUNGS
GESELLSCHAFT M.B.H., NIKLASDORF

ENAGES

08.00	Departure by bus to Energie- und Abfallverwertungs Gesellschaft m.b.H.
11.00	Arrival at Energie- und Abfallverwertungs Gesellschaft m.b.H.
11.00 – 14.00	Visit of the most modern “ENERGY and RAW MATERIAL from WASTE” power plant in Austria
16.30*	Arrival at the airport Vienna (Schwechat)
17.00	Arrival at the Vienna Marriott Hotel

Energie- und Abfallverwertungs Gesellschaft m.b.H. operates since 2003 one of the most modern “ENERGY and RAW MATERIAL from WASTE” power plant in Austria. Roughly 130.000 t of different waste fractions are processed in a “Bubbling Fluidized Bed” – combustion technology.

With an overall energy efficiency of >75% electricity and heat are generated and exclusively utilized by the neighboring paper mill BRIGL & BERGMEISTER.

Metals and glass extracted from the combustion process are recovered by an external scrap processing specialist.

www.enages.at



ENAGES



Energie- und Abfallverwertungs Gesellschaft m.b.H.
Proleber Straße 4
8712 Niklasdorf
Austria

www.enages.at

The plant tour will only take place with a minimum of 8 participants.
* No guarantee on arrival time due to traffic conditions.

PLANT TOUR

FRIDAY, MARCH 16, 2018

GEBRÜDER GRATZ GMBH, GRATZ RECYCLING GMBH,
G&S METALLWERK GMBH, EDT BEI LAMBACH



07.00	Departure by bus to Gebrüder Gratz GmbH
10.00	Arrival at Gebrüder Gratz GmbH
10.00 – 13.00	Visit of the most modern scrap yard in Upper Austria
16.30*	Arrival at the airport Vienna (Schwechat)
17.00	Arrival at the Vienna Marriott Hotel

Gebrüder Gratz GmbH was founded in 1938 in Lambach near Wels and has since developed into the largest and most modern scrap yard in Upper Austria. In our 80,000 square meters company we are processing 150,000 tons of steel scrap and more than 15,000 tons of metal scrap with a competent 75-men team. Our own transport fleet with both logistical and container systems, is able to provide our partners and clients, be it industry, trade or municipalities, with a comfortable and reliable scrap disposal service. We are operating a scrap shear with 800 tons shear force for the heavy scrap, and a 1240 KW Shredder for different kinds of compound scrap, especially scrap from households, WEEE-scrap and ELV bodies.

We are constantly working with state-of-the-art technology and invests in continual development to protect the environment. For example, radioactivity is continuously monitored and documented, and soil and groundwater are protected via an in-house water treatment facility.

Gratz Recycling GmbH was built as a special draining plant to recycle old car wrecks to bring them back into the environmental cycle.

G&S Metallwerk GmbH is the latest daughter company in Edt bei Lambach. We have managed to create a modern plant which is able to split the shredder heavy fraction in a dry way and extract stainless steel and every other sort of metal. The treatment is adapted to the needs of each individual case.

www.gratz-schrott.at, www.gus-metallwerk.at

The plant tour will only take place with a minimum of 8 participants.
* No guarantee on arrival time due to traffic conditions.



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PLANT TOUR

FRIDAY, MARCH 16, 2018

MÜLLER-GUTTENBRUNN GROUP
MGG METREC, MGG METRAN & MGG POLYMERS
AMSTETTEN/KEMATEN



08.00	Departure by bus to Müller-Guttenbrunn Group
10.00	Arrival at Müller-Guttenbrunn Group
10.00 – 15.00	Visit of the shredder plant of MGG Metrec Visit of the post-shredder treatment plant of MGG Metran Visit of the plastic recycling plant of MGG Polymers
17.00*	Arrival at the airport Vienna (Schwechat)
17.30	Arrival at the Vienna Marriott Hotel

The Müller-Guttenbrunn Group is a highly innovative recycler of ELV's and WEEE with an unprecedented recycling depth.

The MGG Metrec facility in Amstetten treats ELV's and WEEE, with two different shredders, one specialized for ELV's and one for WEEE. The incoming ELV's are de-polluted and subsequently shredded for the recovery of ferrous scrap. The ELV shredder has been upgraded with the latest technology air treatment in 2017. The shredder residues are transported to MGG Metran, the Post-Shredder Technology specialists of the Müller-Guttenbrunn Group.

MGG Metran is specialized in Post-Shredder Treatment of the shredder residues. It combines a large number of innovative separation technologies to further process these shredder residues into a range of non-ferrous metal concentrates. The recovered materials are re-introduced into the material cycle. In these processes also a valuable plastics fraction is created, which is delivered to **MGG Polymers** for further processing.

MGG Polymers recovers high-quality post-consumer ABS, HIPS, PP and even PC-ABS plastics and converts them into resins for use in demanding applications in the Car and Electronics producing industries. These post-consumer recycled (PCR) plastics reduce energy consumption by over 80–90% and protect the environment by reducing up to 4,8 tons CO₂-emissions per metric ton of plastics produced, compared to the production of one ton of "virgin" plastics from petrochemicals.

www.mgg-recycling.com
www.mgg-polymers.com

The plant tour will only take place with a minimum of 8 participants.
* No guarantee on arrival time due to traffic conditions.



Recycling with unprecedented recycling depth



- Treating both ELV's and WEEE
- Latest shredder and separation technologies
- Processing Shredder Residues
- Presence in Central and South-Eastern Europe

Müller-Guttenbrunn Group, Industriestrasse 12, A-3300 Amstetten, Austria
Tel: +43 7472 / 64 181, Fax: +43 7472 / 64 181 38, www.mgg-recycling.com, office@mgg-recycling.com



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fractions from
durable goods ...



... to make
post-consumer
recycled
plastics



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ICMRECYCLING

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Upcoming ICM Events:

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**JULIA
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Congress Assistant

17th International Electronics Recycling Congress IERC 2018

IERC
2018



January 17 – 19, 2018
Salzburg, Austria



18th International Automobile Recycling Congress IARC 2018

IARC
2018



March 14 – 16, 2018
Vienna, Austria



23rd International Congress for Battery Recycling ICBR 2018

ICBR
2018



September 26 – 28, 2018
Berlin, Germany



WHO SHOULD ATTEND?



- Automobile importers and dealers
- Automobile manufacturers
- Automotive parts and materials suppliers
- Battery manufacturers
- Collection and transportation companies
- Environmental authorities
- Ferrous and non ferrous metal traders
- Ferrous and stainless steel industry
- Financing organizations for ELV recycling
- Laboratories for material science
- Non ferrous metal industry
- Plastics industry
- Recycling and dismantling companies
- Shredding companies
- Universities and research institutes



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Metso shredder solution

That's how we make the big difference, the Metso Way.

Metso has been helping customers to overcome challenges, develop new products and reach & exceed their production goals.

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<http://www.metso.com/recycling>



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FOR MIXED LAMP AND
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BLUBOX.ch



PLASTICS SEPARATION & LCD RECYCLING



In 2014 3.5 Million tonnes of E-waste were collected in the EU. WEEE is considered as one of the fastest growing waste streams. With the correct machinery the recycling of WEEE can offer substantial opportunities in terms of making secondary raw materials. Ad Rem holds the knowledge to build those machines. Contact us today to see how we can help your company profit on E-waste.



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FIRE BOX



SALVAGE CONTAINER
The salvage container is designed and equipped for the transportation and storage of damaged reactive products.

With this container it is possible to extinguish fires quickly and to transport and store the products safely from the location where the accident occurs.

Examples:

- Crashed electrical vehicles,
- Hazardous products which start to react and burn during transportation



Dimensions:
20 ft container
W 2.350 x L 5.250 x H 2.390 (net)
Weight 2.500 kg

EQUIPMENT:

- Fire Pro aerosol automatic and autonomy fire fighting system,
- Winch, 3.500 kg capacity with distance control,
- Batteries with charger,
- 2 aluminium ramps,
- 4 tensioning straps 9 m. each,
- Explosion hatch,



Battery Safety Solutions

Johan van Peperzeel
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