



ISWA Annual Report

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Working Together
for a Cleaner, Healthier Planet

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ISWA
International Solid Waste Association



Contents

ISWA's Mission and Goals	4	Events	13
Message from the President	5	Going Digital	14
Message from the Managing Director	6	Highlight of discussed topics	14
New Branding and Strategy	7	Webinar results	14
Projects	9	Rethinking Waste	15
CLOCC	9	ISWA World Congress	16
CALC	9	ISWA YPG	17
CCAC Closing Dumpsites	9	Decentralisation and regionalisation of ISWA	18
Integrated Solutions	9	Join the Global Waste Management Network	20
EU Projects	10	A Special Thank You to ISWA's Sponsors	21
DECOAT	10	A Special Thank You to ISWA's Platinum Members	22
MULTICYCLE	10	ISWA Gold Members	23
ALMA	10		
D-NOSES	10		
ECOBULK	10		
The ISWA STC	11		
TRP+	11		
Waste to Energy Report	11		
Soils project	12		
Marine Litter Task Force	12		
Closing Dumpsites Task Force	12		
Women of Waste (WOW!)	12		



ISWA's Mission and Goals



ISWA – International Solid Waste Association – is a Global, Non-Profit Association, working to Promote and Develop Sustainable and Professional Waste Management Worldwide and the transition to a Circular Economy.

ISWA's vision is an Earth where no waste exists. Waste should be reused and reduced to a minimum, then collected, recycled and treated properly. Residual matter should be disposed of in a safely engineered way, ensuring a clean and healthy environment. All people on earth should have the right to enjoy an environment with clean air, water, seas and soils. To be able to achieve this, we need to work together.



ISWA achieves its mission through:

-  Promoting resource efficiency through sustainable production and consumption
-  Providing support to developing and emerging economies
-  Advancement of waste management through education and training
-  Promoting appropriate and best available technologies and practices
-  Professionalism through its programme on professional qualifications
-  Worldwide exchange of information and experience on waste management

Message from **the President**



2020 was a unique year, when we all started a new way of life.

In the year when we reached 50 years of activities **ISWA** headquarters have moved to Rotterdam, under the coordination of a new Managing Director and welcoming new members to the staff, who joined the team, our members and the Board to celebrate this milestone and start setting the scene for the years to come. During its existence **ISWA** has observed, influenced and surpassed several challenges and crises, witnessing some of the most emblematic developments that shaped the way we live nowadays.

Half a century later the world has been hit by a global pandemic which, among other impacts, changed the way we work, the way we meet new friends and connect to the old ones, introduced new measures for travels and originated new consumption patterns, with consequences on the waste generation.

The scale of human interference on Earth has reached unprecedented levels, affecting the structures of the planet and possibly creating a new geological age known as the Anthropocene, a human-dominated era. One of the most noticeable footprint from this era is the waste generated every day all over the world. The remains of our society are the most visible result of the human environmental influence and it is growing fast.

Unmanaged waste is one of the largest sources of pollution, ecosystem degradation and health problems nowadays, and simultaneously represents a lost economic opportunity. But it doesn't need to be that way. The waste industry can be a net saver on Greenhouse gases emissions. Waste can be a source of renewable energy and used a secondary material in several manufacturing processes, being an environmental and an economic asset.

During the last 50 years **ISWA** has worked towards safe and professional waste management worldwide, and here lies our most important opportunity for the future: bring all the lessons learned during half a century and make it happen, the land has never been so fertile to our cause. This situation opened new horizons and impulsed different approaches to solve old problems.

The new Board elected during the 2020 General Assembly, the first fully online, undertook its roles committed to keep the association running and alive, integrating the different **ISWA** bodies and activities, working together with the General Secretariat to adjust our work program according to the so-called "new normal", focusing both on the internal improvements (new strategic Action Plan, Communication Strategy, Funding and Financial stability) and enhancing external activities by setting new partnerships, coordinating leading projects and introducing innovative messages.

This is the right opportunity to set the ground for the waste industry to be placed as a central pillar of this new epoch, as a leading partner of the circular economy system and as an active contributor towards decarbonized cities. Because after all, the right to enjoy an environment with clean air, seas and soils is a basic human right, to be valued and enjoyed by all.

Yours sincerely,
Carlos Silva Filho
President of **ISWA**



Message from the **Managing Director**



The COVID-19 Pandemic has laid bare all the vulnerabilities of a global and interconnected society and created unprecedented stresses on the waste and resource sector.

Dear ISWA Members,

2020 was a year like no other. The COVID-19 Pandemic has laid bare all the vulnerabilities of a global and interconnected society and created unprecedented stresses on the waste and resource sector. But despite all of this, I am proud of the global waste management community stuck together. I am proud of how the whole **ISWA** network navigated the crisis and persisted with its shared mission to promote and develop sustainable waste and resource management and a transition to a circular economy.

Despite all the difficulties of 2020, **ISWA** was there for you, advocating the protection of waste professionals during the pandemic, supporting you with timely guidance on waste management and COVID-19, monthly webinars, and plenty of digital networking and learning opportunities including the hugely successful Rethinking Waste Expo. Whilst we were disappointed to not have our annual Congress in person in Rotterdam to mark **ISWA's** 50th birthday, we found new and innovative ways to connect, share ideas, build new relationships and solidify existing ones.

What's clear, no matter the discussions about returning to "normal", is that we have learnt an incredible amount about how we can serve our members in a digital age, and how we can engage more and more of you in the important discussions regardless of geographical differences.

Finally, I would encourage you all to come along to **ISWA's** first ever digital World Congress on 4-6 October 2021, organised by our National Member in Greece. See you online, and hopefully in person soon.

Yours Sincerely,

Marc Tijhuis
Managing Director

New Branding and Strategy



All brands require regular maintenance to keep them relevant and connected to changes in the organisation as well as reflect changes within the industry and the world beyond.



On March 31st, **ISWA** released its brand refreshment with a new logo and new website!

The International Solid Waste Association has gone through many changes in the last 50 years as it has adapted to an evolving industry and its growing role on the international stage. The importance of sound waste management is increasingly recognized as its contribution to major global themes like climate change, resource management and the circular economy becomes ever more apparent.

ISWA has also been on a transformational journey in these last few years with many significant changes shaping the future of the association. The move to the Netherlands, the adoption of the new strategy, the subtle shift towards circularity and the ambition to grow in the international stage as the voice of the solid waste industry to name just a few. They all pointed to the need to revamp **ISWA's** image to connect better with the latest trends in the industry and broaden our appeal to a larger and diverse group of companies and institutions.



The new image should convey the desire to broaden our appeal to a greater variety of stakeholders, position **ISWA** as a leading authority on solid waste management for our international partners and inspire greater engagement in our growing global audience.

The motivation behind a branding update is often a combination of several factors, but the starting point for us was that branding is critical for an association whose mission is to disseminate knowledge. It is our identity, sets us apart from others and presents, hopefully, a memorable impression. This recognition increases our perceived value, provides insight, sets expectations, and makes global outreach easier.

The new logo has maintained the concept of the daisy, as this is part of the core identity of our association and has been for the last 50 years. In this incarnation, the daisy has become more stylised, and perhaps most notably, the colours have changed. The green is still an integral part of our branding and you will see it across our website and content, but we made the strategic decision to switch to blue. The blue colour is interpreted as a colour that engenders trust, and is commonly used by international organisations, such as the UN, to strengthen their image as sources of authority in knowledge and cooperation. While green is of course typical of environmental organisations, and **ISWA** clearly remains dedicated to the environment, it is important to recognise that we do so much more and so do our members! In fact, each of the colours in our new palette forms a part of the world that we are trying to preserve – the dark blue for the oceans, light blue for air, green and yellow for the environment and flora.

The image adjustment is the first step into the next 50 years. A period where we want to reach out more, broadening our audience and growing our relevance for our members and the international community. The re-invigorated brand will help position **ISWA** as a leading voice in the international waste management arena.

At the same time, the new modern website will allow us to create a better experience for both our members and stakeholders.

We truly hope you love the modernised **ISWA** look and feel, which will allow companies and members to better showcase themselves as well as enabling our network to access our services more smoothly.



The new logo has maintained the concept of the daisy, as this is part of the core identity of our association and has been for the last 50 years.

Our new branding was conceived in a lengthy process of consultation with stakeholders, both internal and external, and of course our members. On behalf of our President, Carlos Silva Filho, we would like to express our gratitude to all those involved in this process. In particular we would like to express our thanks to the **ISWA** General Secretariat and the designer who carefully coordinated the whole project and delivered an excellent result. Finally, we also want to thank the board, the subcommittee on communications and all the members who volunteered and contributed to make it happen.

We are ready for the upcoming 50 years! Are you? Join the family,

Kindest regards,
Marc Tjihuis

Projects

ISWA's projects and initiatives engage its broad network of waste professionals. Its activities target the most cutting-edge issues in the waste management sector ranging from marine litter to the circular economy.

From a local community in Indonesia to cities in Western Europe, **ISWA** prides itself on creating a more sustainable world through a range of diverse engagements and partners that bolsters professional solid waste management practices internationally.

CLOCC

The Clean Oceans through Clean Communities (CLOCC) is a community & network driven programme owned by Avfall Norge and funded by Norad (the Norwegian Agency for Development Cooperation). Our vision is to achieve healthy societies and a clean environment - through sustainable communities, green jobs and business opportunities in local circular economies. Find more information at: <https://www.cloccglobal.org/> and follow our activities on our LinkedIn page at: www.linkedin.com/company/iswa-international-solid-waste-association

CALC

The Circular and Low Carbon Cities (CALC) project works at the intersection of two critical global challenges: climate change and resource scarcity. The aim of the project is to support cities in making choices to increase circularity and reduce emissions. The CALC project is working to develop and test metrics to benchmark circularity in cities, making the connection between circular and low carbon cities, and to facilitate a network of cities. The project is now entering its second year and is co-financed by the NVRD.

CCAC Closing Dumpsites

The CCAC funded project on mitigating Short-Lived Climate Pollutants (SLCPS) from Landfills and Municipal Solid Waste and helping cities reduce emissions through improved waste management is working on a site in the South of Lebanon.

Integrated Solutions to Fight Water Sources Pollution Towards Plastic Recovery and Circularity in Environmentally Protected Regions in Brazil

This Swedish EPA funded project has the overall objective to prevent waste leakages to sea and rivers by engaging stakeholders through capacity building to maximize materials recovery and valorization. It further aims to research alternatives to promote waste diversion from disposal sites to maximize its circularity and avoid leakages to water bodies and to promote integration of the waste management sector with other areas of social and environmental interest such as health, education, and social development. The project will share lessons learnt and findings through materials available for download, lectures and experience exchange with other municipalities and National governments.



EU Projects

ISWA works on EU projects as a communications and disseminations partner owing to our international NGO status and wide global network. Furthermore, we also provide the projects ISWA experts through our member network.

DECOAT

The main goal of this project is to enable the circular use of coated textile and plastic parts by developing novel smart polymer material systems, and their corresponding recycling processes. The project results will be demonstrated via concrete use-cases for outdoor gear, household electronics and automotive parts. <https://decoat.eu>

MULTICYCLE

The current established waste management systems only recycle about a third of the plastics while still a high proportion of the waste is not managed properly and enters the waterways and ultimately pollutes. For this reason, there is the need of creating a circular plastics economy. Long chain molecules can potentially be reused many times if they could be identified and recovered effectively.

In the European H2020 project MULTICYCLE research is currently advancing for delivering an industrial recycling pilot plant for thermoplastic-based multi-materials allowing selective recovery of pure plastics and fibres from mixed wastes without downgrading. The project is based on an artificial intelligence sorting system and the patented CreaSolv process. The objective is to demonstrate a potential shift to a circular economic model in multilayer packaging / flexible films and fibre-reinforced thermoplastic automotive composites. There is potential of applicability in many other segments.

<http://multicycle-project.eu>

ALMA

The ALMA project aims to transform the automotive sector from a linear to circular model considering recyclability early in the design phase and concocting creative end-of-life solutions at an affordable cost. ALMA is creating the future of mobility through

innovative, and sustainable hybrid material solutions. ALMA will decrease the environmental impacts of electric vehicles by reducing the weight of the structure, saving materials and energy thereby reducing CO₂ emissions.

<https://almaproject.eu>

D-NOSES

(Distributed Network for Odour Sensing, Empowerment and Sustainability): This project will help in developing a comprehensive multi-level governance strategy for odour nuisance management through the use of citizen science and quadruple helix-based community interventions.

D-NOSES has created a new methodology and tools to measure odour impact transparently and in real time. The engagement of quadruple helix stakeholders has been implemented to facilitate dialogue and improve odour management. D-NOSES new method was tested and evaluated in 10 pilot cases. A platform (<https://odourobbservatory.org/>) and app (<https://odourcollect.eu/>) are available in open access to measure and report odour issues.

<https://www.dnoses.eu/>

ECOBULK

This project is a large-scale European initiative which will demonstrate that re-using, upgrading, refurbishing, and recycling composite products is possible, profitable, sustainable and appealing. The project will work on composite products in the furniture, automotive and building sectors as demonstrators to prove a new circular model. The aim is to develop a design framework, materials and logistics as well as the business cases for a circular economy approach to complex, bulky composite products and materials.

<https://www.ecobulk.eu>

The EU projects have received funding from the European Union's Horizon 2020 Research and Innovation Programme under Grant Agreement No: 814505, 820695, 101006675, 789315 & 730456 respectively.

The **ISWA** STC

The Scientific and Technical Committee (STC) represents **ISWA's** technical expertise, it is governed by its Chair and the current Chairs and Vice Chairs of the 10 **ISWA** Working Groups.

Recognising also that there are cross cutting issues that touch upon topics addressed by several all WGs, the STC works on flagship projects through specific Task Forces. The STC is the technical and scientific thinktank of **ISWA** and its activities are based on its own objectives and work programme, as well as the work programmes of the different Working Groups and Task Forces. The present work programme for the STC runs from 2019 – 2021. Recently, the **ISWA** Board and STC had a deep dive session to brainstorm upcoming themes and changes in the sector for the coming years. The new STC work programme for 2022 – 2024 will be based on current global trends that were identified through the discussions and are going to be priority in the coming years.

The work to be carried out by the STC in the coming years will address global trends and challenges while contributing to **ISWA's** vision and mission of promoting sustainable waste management and a transition to a circular economy. A circular model for waste management will facilitate diversion of collected waste from disposal sites to recycling practices moving away from traditional linear 'take-make-dispose' consumption patterns to a reduce-reuse-recycle circular system. All the themes will be global in scope and relevant to a broad, international audience.

STC Activities

TRP+

The Training Resources Pack Plus project is looking to update the previous TRP with most recent developments and research in the field of hazardous waste management. A website for launching the platform is in current development.

Waste-to-Energy Technologies

The White Book on Energy-from-Waste (EfW) Technologies will assist stakeholders involved in the development of Municipal Waste Management solutions, especially Decision Makers (mostly Public Authorities) in countries where EfW is not yet familiar or implemented, particularly where sustainable solutions are required for the increasing number of large cities and densely populated areas where waste collection, transport to the treatment site, land availability, health and climate change aspects are becoming major concerns.



Soils project

Soils are an endangered ecosystem globally and there is currently great interest in reducing erosion and improving the organic matter content of soils.

ISWA's Soils Project aims at 'quantifying the benefit of organic matter in compost and digestate when applied to soils' takes a lead in providing robust evidence base to link waste management and soil enhancement/improvement. The project reports summarize current knowledge about the fate of recycled carbon in soils, in particular, its sequestration and effects on soils by talking about key areas of the world where threats to soils are severe and could benefit from organic matter inputs. These reports will also provide a tool for waste planners/managers and farmers, summarizing how composting and anaerobic digestion can be used in different country situations, and how quality assured products can be usefully applied to soils. Find the reports and webinars linked to the project here: <https://www.iswa.org/biological-treatment-of-waste/>



Marine Litter Task Force

The **ISWA** Task Force on Marine Litter was formed at the beginning of 2017 and aims to show that sound waste management practices are the key to reducing marine litter. The mission of the task force is to explore and clearly establish the link between sound waste management treatment and the prevention of plastic waste reaching our oceans.

<https://www.marinelitter.iswa.org>

Closing Dumpsites Task Force

The Closing Dumpsites Task Force is helping set clear examples of how to close dumpsites in a sustainable manner and offer support and help to countries and cities looking to take the positive step to do so. Dumpsites spread pollutants across our atmosphere and our oceans, they damage the health and violate the human rights of the hundreds of millions of people who are living on or around them. That is why closing dumpsites is a top priority of **ISWA**.

<https://www.iswa.org/closing-the-worlds-biggest-dumpsites-task-force/>

Women of Waste (WOW!)

The Women of Waste Task Force was created by women to advocate and highlight women's work and achievements in the solid waste management sector. WOW! explores the link between gender and sustainable waste management and resource recovery systems to improve waste management overall, by empowering women in the sector. Led by a technically and geographically diverse group of women experts, WOW! activities are based on scientific evidence and best practice solutions.

<https://www.iswa.org/women-of-waste-task-force>



Events

ISWA events promote learning, professional updating and networking in the waste sector with the aim of realising our common goal, working towards safe and professional waste management worldwide.

From major international events to small specialist conferences, **ISWA** events share the latest developments in Waste Management and connect its members and network.

We met in the beginning of 2020...



13 Jan 2020 - 24 Jan 2020, Arlington, Texas, United States. **ISWA-SWIS Winter School**



13 January 2020, Rotterdam
ISWA Office Opening



13 Jan 2020 - 16 Jan 2020, Abu Dhabi, United Arab Emirates
EcoWASTE Exhibition & Forum



Going Digital

From April onwards **ISWA** successfully switched to organizing its own digital events next to partaking in digital events from our partners and members.

23 Webinars

4 Online conferences

2 Networking events

Highlight of discussed topics:

Climate Change

Circular Economy

COVID-19

Cytotoxic Waste

Development Projects

Digitalization

Hazardous Waste

Municipal Organic Waste

Plastic Waste

Recycling

Sustainable Waste Management

ISWA's 50th Birthday

Webinar results:

Attendees of **123** countries

28,765 registration page visits

9,094 people registered

7,819 views of the recordings on **YouTube**

What do attendees say:



It was great to have the opportunity of learning from experts what's been going on regarding waste management and the pandemic.



Clear talks from the two speakers. Now I am motivated to download the ISWA reports!



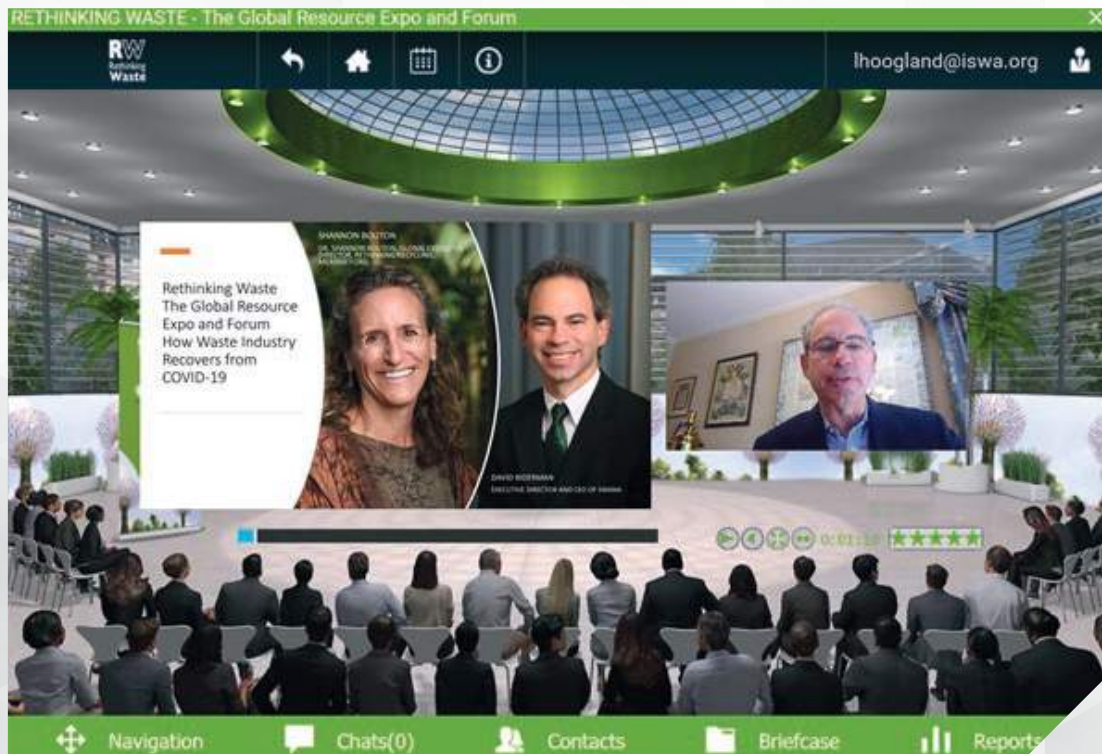
I liked the mix of academic/theoretical content plus applied case and the interaction between panellists

Rethinking Waste: The Global Resource Expo and Forum

22-23 September 2020.

A two-day global resource expo and forum launched by **ISWA**, Waste Management World and Industriemedien. Including fantastic

online sessions with topics ranging from waste management during Covid-19 to the role of Waste-to-Energy in the Circular Economy.



ISWA World Congress

The **ISWA World Congress 2021** will deliver a scientific programme focused on **“from waste management to circular economy – The road ahead”**.

The **ISWA World Congress 2021** will be the event’s 37th edition, and it is expected to attract delegates from across the globe.

It will be the first congress after a break last year due to the pandemic and the first time that it will be easily accessible worldwide due to the virtual format.



Register now at: www.iswa2021.com

Decentralisation and regionalisation of **ISWA**

In 2018, as part of **ISWA's** new strategy and business model, we recognised the urgent need to decentralise the core activities of **ISWA**.

In the years since, we have worked extensively with our National Members outside of Europe to develop **ISWA** Regional Chapters.

The pandemic and the reduction in travel has only served to highlight how fundamentally important the regional chapters are to **ISWA's** strategic growth. Regional Chapters will create a strong **ISWA** presence in the region by leveraging the **ISWA** network, knowledge and brand to serve local waste management needs. They will lead to more regional networking and cooperation to solve local problems, but also support the general association through membership growth. This crucial new approach by **ISWA** is the next step in making us truly international. It's time to think global, and act local!

Our Regional Chapters:

Latin America and Caribbean

Argentina - ARS – Association for Solid Waste Studies.

Brazil - ABRELPE – Brazilian Association of Public Cleaning and Special Waste Companies.

Chile - AEPA – Asociación de Empresas y Profesionales para el Medio Ambiente.

Mexico - DS Latinoamericana, S.C.

Uruguay - Cámara de Empresas Gestoras de Residuos del Uruguay



Southeast Europe

Bosnia and Herzegovina - BASWA – Bosnian Solid Waste Association

Croatia - CROWMA – Croatian Waste Management Association

Greece - HSWMA – Hellenic Solid Waste Management Association

Hungary - FKF Nonprofit Zrt

Israel - DRAT – The Dan Region of Association of Towns, Sanitation and Waste Disposal

North Macedonia - MaSWA – Macedonian Solid Waste Association

Romania - ARMD- Romanian Association of Waste Management

Turkey - Turkish National Committee on Solid Wastes

Serbia - SeSWA – Serbian Solid Waste Association

Asia Pacific

China - CAUES – China Association of Urban Environmental Sanitation

India - ICWM – Institute of Chartered Waste Managers

Indonesia - InSWA – Indonesia Solid Waste Association

Japan - JWMA – Japan Waste Management Association

Korea - KSWM – Korea Society of Waste Management

Malaysia - WMAM – Waste Management Association of Malaysia

New Zealand - WasteMINZ – Waste Management Institute of New Zealand

Singapore - WMRAS – Waste Management & Recycling Association of Singapore

Join the Global Waste Management Network

 <https://iswa.org/membership>



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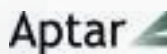
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Company	Country	Website
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SUEZ	FR	http://www.suez.com
Stadtreinigung Hamburg	DE	http://www.stadtreinigung.hamburg
Odense Waste Management Company Ltd.	DK	http://www.odensewaste.com
MARTIN GmbH	DE	http://www.martingmbh.de
Environment Global Facilities	PT	http://www.egf.pt
Work of the Public Sanitation Association	HU	http://www.koztegy.hu
Sysav, South Scania Waste Company	SE	http://www.sysav.se
Hitachi Zosen Inova	CH	http://www.hz-inova.com
Ramboll	DK	http://www.ramboll.com
Österreichischer Städtebund	AT	www.staedtebund.gv.at
Antonio Matachana S.A.	ES	http://www.matachana.com/en/
Hungarian Association of Environmental Enterprises	HU	https://kszgysz.hu/en/
ISVAG	BE	www.isvag.be
"Tamiz Shahaar" JSC	AZ	http://www.tamizshahar.az
Wiener Kommunal- UmweltschutzprojektgesmbH	AT	http://www.wku.at
Constructions Industrielles de la Méditerranée	FR	http://www.cnim.com/en/index.aspx
Intercommunale voor Slib en Vuilverwijdering Antwerpse Gemeenten	BE	http://www.isvag.be
Klarwin	RO	http://www.klarwin.com
Turboden SpA	IT	http://www.turboden.com
Benito Roggio ambiental	AR	http://www.bra.com.ar
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The Open University	GB	http://www.open.ac.uk
CENVIRO SDN BHD	MY	http://www.cenviro.com
WEHRLE Umwelt GmbH	DE	http://www.wehrle-umwelt.com
T.M.E. S.p.A.- Termomeccanica Ecologia	IT	http://www.termomeccanica.com
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KEYCYLCE GmbH	AT	https://www.keycycle.at/
ICP Ingenieurgesellschaft Prof. Czurda und Partner mbH	DE	http://icp-ing.de/
German RETech Partnership e. V.	DE	https://www.retech-germany.net/en/
Deutsche Gesellschaft für Abfallwirtschaft e.V.	DE	http://www.dgaw.de
Green Investment Group Limited	GB	http://www.greeninvestmentgroup.com
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