



FCC Environment Service for the Future in CEE

Austria • Bulgaria • Czech Republic • Hungary • Poland • Romania • Serbia • Slovakia





Who we are

FCC Environment CEE, formerly .A.S.A. Group, was founded in Austria in 1988 and has become one of Europe's leading companies in the waste management industry. The majority owner is the well-known Spanish infrastructure and environmental services company FCC (www.fcc.es).

We are striving to improve citizen living conditions by partnering with municipalities, creating comfortable **cities for citizens** - cities providing a good quality of life. To this end - we are collecting and recovering waste, cleaning and maintaining streets, pavements and city greenery all year round. Among many other services we also secure construction sites and operate parking areas.

We regard „**Service for the Future**“ as our mission. By using modern collection, transport and waste treatment technologies, we achieve our two main goals: saving of primary resources and waste disposal without environmental burden.

All our solutions are based on a **sustainable waste management concepts**. We treat **waste as a resource**. From the moment it is collected by our trucks, all waste enters an integrated waste management system, utilizing state-of-the-art recycling and recovery technologies. Waste-to-energy is the final level of any comprehensive waste management system. Using our facilities, we are able to recover energy from residual and commercial waste as prescribed by EU regulations.

A further part of the system is the treatment of biodegradable materials and the processing of separated secondary raw materials with the aim to save natural resources.

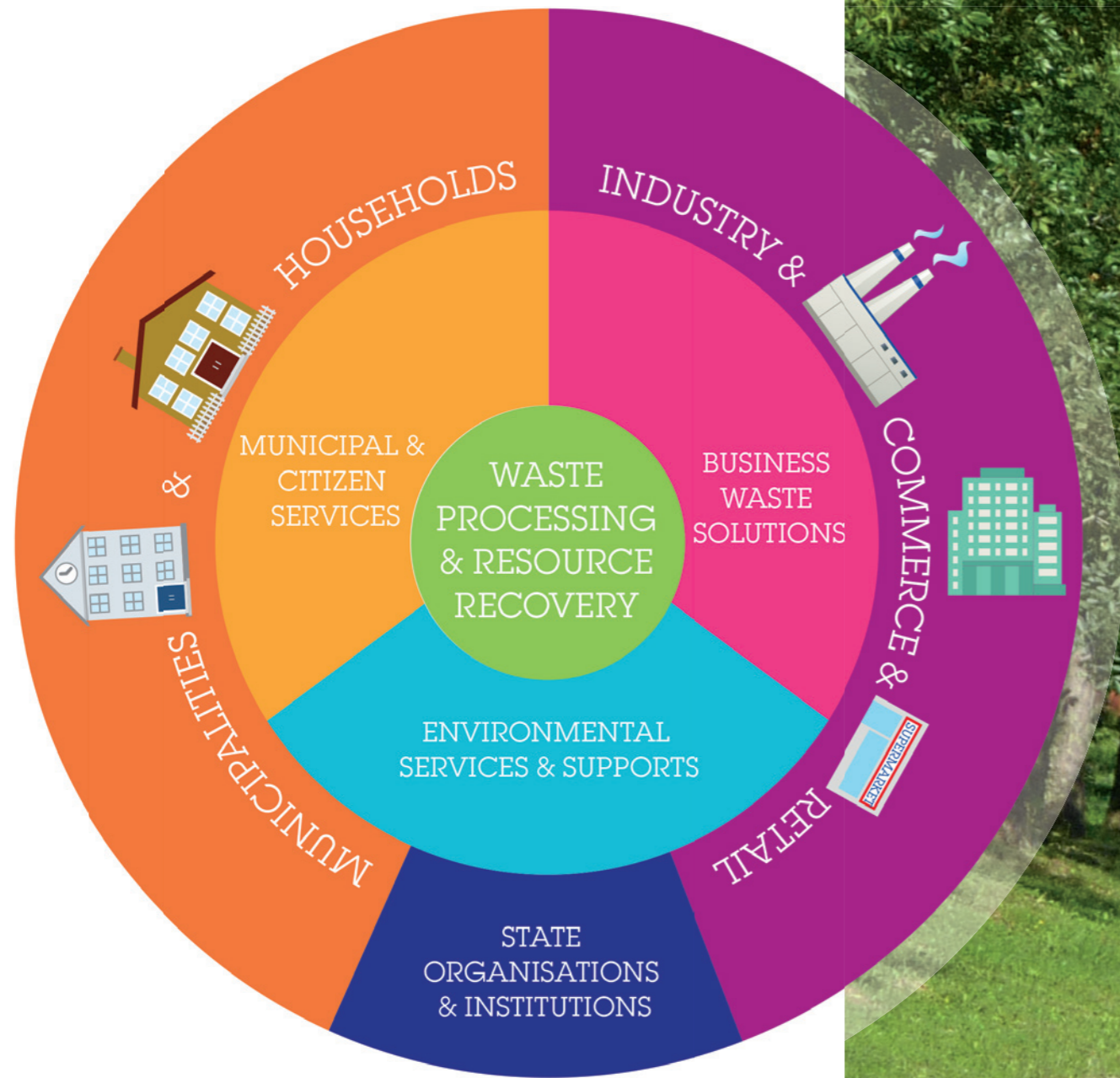
Our experience in waste management and citizen services brings **business solutions** to industrial, commercial and retail companies and helping them optimize the waste processes at their premises by outsourcing it to us.

Last but not least, we remove ecological burdens for future generations by applying sophisticated **remediation** technologies.

A workforce of more than 4.300 employees in 8 countries of CEE signs responsible for the smooth operation of all our services.

What we do

We provide a wide range of services applying our know-how especially in the following areas:



All our activities comply with the legal requirements, rules and regulations defined by the EU (especially 2008/98/EC). The goal is to manage the resources in a sustainable

way. This is witnessed to by a number of certificates in accordance with the international standards ISO 9001, 14001, 27001, 50001 and OHSAS 18001, as well

as a number of local country certifications. Integrated quality systems guarantee our customers that all services are provided to the highest standard.

MUNICIPAL AND CITIZEN SERVICES

- **Waste Management and Resource Recovery**
 - Logistic Services such as waste collection/separate collection and transport
 - Waste processing, resource recovery and disposal
 - Management of all kinds of waste, including garden cuttings, used clothes or hazardous waste, operation of recycling centers and collection yards, container and skip hire,...
- **Maintenance of city infrastructure**
 - Logistic services such as road cleaning and winter maintenance
 - Clearances, demolition and dismantling works
 - Sewage and pit services
 - Other communal services
 - Road cleaning and maintenance/ winter services, park maintenance and greenery, street lighting and traffic signs, cemetery management, funeral services,...
- **Public Private Partnership and Joint-ventures**

We offer towns and municipalities a wide range of municipal services on a high technical and technological level.

We strive for close long-term cooperation that enables us to invest into further development of services and technologies. One possible model is a **joint-venture** model operated based on PPP principles.



OUR COMPANY IMPROVES THE LIVING CONDITIONS IN TOWNS AND CITIES BY PROVIDING A WIDE RANGE OF MUNICIPAL SERVICES



Particularly close relationships and/or joint-ventures have, among others, been established with the cities of Vienna (AT), Prague (CZ), Brno (CZ), Znojmo (CZ), Bratislava (SK), Trnava (SK), Debrecen (HU), Gyal (HU), Arad (RO), Kikinda (RS) & Sofia (BG).



1.315 municipalities served

4,6 mil. residents served

21 joint-ventures with municipalities

BUSINESS WASTE SOLUTIONS

- **Waste and Resource Management**
 - Waste collection and transport, container and skip hire
 - Waste processing, resource recovery and disposal
 - Secondary raw materials: production waste, „Green Point“ materials, hazardous waste, special disposal services for the hospitality sector, flue gas residue cleaning,....
- **Facility Services**
 - Indoor and outdoor cleaning services: streets, roads, car-parking facilities,...
 - Construction site services
 - Park and greenery maintenance
 - Clearances
 - Secure disposal of documents and data storage mediums
- **Consulting**
 - Creation of waste-management concepts
 - Waste declarations, statistics and many more

Comprehensive Services in Waste Management

We provide comprehensive waste management (CWM) services for industrial, commercial and retail companies. The main benefit of our CWM service is the transfer of all activities and responsibilities related to waste management to a specialized professional: FCC Environment.

Our experience in waste management brings **business waste solutions** to industrial, retail and commercial companies, helping them optimize the waste processes in their premises by **outsourcing** it to us. CWM includes complex services for companies, including all technical aspects, facility services, legal and consulting matters – all supported by any required personnel.

OUR GOAL IS NOT ONLY TO MEET ALL THE NEEDS AND EXPECTATIONS OF OUR CLIENTS AND PARTNERS, BUT TO OFFER THEM MORE THAN THEY EXPECT





We offer our clients amongst other services:

- Collection and transport with special vehicles
- Renting of different types of containers and collection bins
- Treatment and disposal of any type of waste, incl. hazardous waste
- Cleaning services
 - Outdoor cleaning services e.g: street cleaning / cleaning of car-parking facilities / park maintenance
 - Indoor cleaning services: regular and one-off cleaning in administrative buildings and industrial facilities, incl. window cleaning, service of supplying sanitary material,...



Global top brands such as **Globus**, **Spar**, **Tesco**, **IKEA** or **OBI** trust us for their waste management services and belong to our more than 50.200 customers operating in the trade and retail sector. Companies like **Miele Technika s.r.o.** and **Škoda Auto a.s.**, **Opel**, **Hyundai Motor Manufacturing Czech, s.r.o.** or **Volkswagen** and **BMW** are some of our leading clients in the industrial sector.

ENVIRONMENTAL SERVICES & SUPPORTS

- **Environmental Awareness Campaigns**
 - Ecological education programs for schools and companies
 - Recycling competitions, open door events,...
- **Engineering, expertise and consulting**
 - Waste management concepts: for governments, municipalities or business partners
 - Environmental Impact Assessment, expertise for - and engineering of special technologies
- **Remediation**
 - Contaminated sites remediation: contamination survey, risk analysis, impact assessment and remediation works
 - Special technologies: biological decontamination, solidification, petroleum waste reprocessing into the alternative fuel, treatment of highly toxic waste

Our company provides remediation of environmental burdens such as

- Old industrial, municipal and hazardous waste landfills
- Contaminated soil, water and groundwater
- Contaminated buildings, constructions and other technological complexes - demolitions, sorting, crushing, recycling
- Reclamation of thixotropic sludge lagoons
- Processing and recovery of petroleum refining waste

We use our own patented technologies meeting the parameters of BAT (best available technology). [Friendly to the environment](#), we manage technologies for the reprocessing of waste (energy appreciation, secondary raw materials, certified reclamation material, etc.)

WE USE A VARIETY OF SPECIAL AND PATENTED TECHNOLOGIES TO MAXIMIZE THE RESULTING EFFECT





WM-concepts in Macedonia, Albania, Kosovo for IFC and OeKB can serve as our reference.



Our key remediation technologies are:

- Biological decontamination
- Stabilization/solidification
- Production technology of alternative fuel
- Groundwater pumping and treatment by gravity separation and stripping method
- Air sparging

References: PARAMO, a.s. Pardubice (CZ), Aircraft Industries, a.s. Kunovice (CZ), ŠKODA AUTO Mladá Boleslav (CZ), REKKA s.r.o. České Budějovice (CZ), Jihočeské dřevařské závody Soběslav, a.s. (CZ), MEP Postřelmov a.s. (CZ), Slovnaft a.s. Bratislava (SK), Slovenské elektrárne, a.s., (SK) etc.

How we do it

WASTE PROCESSING AND RESOURCE RECOVERY

- Waste collection
- Separate waste collection
- Public collection yards
- Logistic
- Transfer stations
- Logistic centers
- Storage
- Sorting and Splitting
- Recycling
- Mechanical-biological treatment
- Composting, solidification and biodegradation plants
- Alternative fuel production
- Waste-to-energy plants (Thermal waste treatment)
- Packaging and Balling
- Disposal and Landfilling

Waste Collection

Nearly 1,3 million containers, skips and bins of all sizes and 1.250 trucks or special vehicles ensure secure and efficient collection and transport of all waste for further treatment.

A net of effectively located transfer stations allows depositing and safe unloading of municipal waste from collection vehicles, briefly storing it before it is reloaded onto larger long-distance transport vehicles for shipment to landfills and other treatment or disposal facilities.

WE GIVE 570.000 TONS OF SECONDARY RAW MATERIALS A SECOND LIFE

Separate Waste Collection

Waste separation is an important part of any waste management system and is in full compliance with the existing EU regulations which prescribe the **reduction** of the percentage of waste disposed in landfills in favor of other more environmentally friendly methods of waste disposal or utilization.

Waste separation through different coloured and sized collection bins is just the start.

An integral part of the service we provide is further separation of waste into individual fractions and the sale of those raw material to final processors.





Waste Treatment & Recovery

Each day, households and companies produce large quantities of waste. Through sorting and treatment, waste can be further processed into **reusable materials** (secondary raw materials).

We have invested in the development of innovative systems as well as the building and extension of suitable **recycling** plants and other treatment facilities.

The collected waste is sorted either manually using sorting plants or automatically using modern splitting lines. The fractions sorted in this way are pressed into bales and provided for or **further treatment** (mechanical-biological waste treatment, thermal waste treatment).

Thanks to these treatment solutions today our CEE group handles more than half a million tons of **secondary raw materials** per year. The majority of these resources is accounted for by used paper, cartons and cardboard, followed by RDF-material, wood, metals, plastics, glass, used oil and solvents, used clothes as well as organic fat.





THE INCINERATION PROCESS SAVES RESOURCES BY PRODUCING ABOUT 110 GWH/A OF ENERGY

OUR LANDFILLS GENERATE ABOUT 88 GWH/A OF ENERGY



Safe Disposal and Landfilling

How we do it

Facilities and Equipment

Waste-to-energy

The last state of the waste treatment is the disposal process which can be provided in modern waste management centres or waste-to-energy plants, like ours in Zistersdorf (AT).

Waste-to-energy Plant Zistersdorf

Our modern incineration facility in Zistersdorf uses municipal and commercial (industrial) solid waste as fuel to generate electricity in almost the same way as a traditional power plant produces energy. It is a highly efficient process.

The **waste-to-energy** plant converts waste to energy through controlled incineration, while at the same time using advanced emissions-control equipment.

The incineration process saves primary resources (a comparable power production would need 40

million liters of oil) and also produces raw materials needed in the steel industry (recovery of scrap).

Our waste-to-energy plant in Zistersdorf represents sustainable waste disposal and utilization.

Safe Disposal and Landfilling

In spite of the waste prevention efforts in conjunction with careful collection, separation and reuse, there will always remain a few types of waste that cannot be reused or recycled. Such waste needs a technically sophisticated and absolutely safe final storage solution that permits continuous monitoring to be carried out. Such facilities require drainage systems for collecting and treating leachates as well as systems for the collection and utilization of landfill gases.

Our **waste management centers** comply with the highest safety standards and have all been certified in accordance with ISO.

Modern trucks and special vehicles	> 1.250
Containers & bins	> 1,300.000
Public Collection yards	95
Waste Transfer Stations	18
Sorting plants	28
RDF plants and/or Splitting plants	13
Mechanical biological treatment plants	4
Composting plants, solidification and biodegradation plants	21
Modern Landfills	27
Household & commercial waste incinerator	1
Incineration facility for hazardous waste	1

OUR GOAL IS TO PROCESS ALL WASTE INTO REUSABLE MATERIALS AND MAXIMIZE THE SAVINGS OF PRIMARY SOURCES

Where we do it



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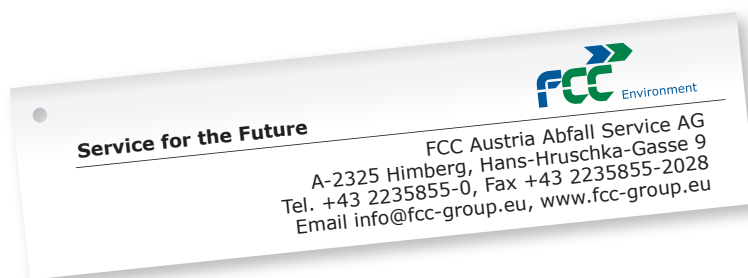
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