DELEGATION REQUEST

Names of persons speaking: Michael Leopold, Sean Kawakami

Organization you are representing: Convertus Group, Circular Waste BC

Primary purpose of the organization: Establishing municipal partnerships to divert organic waste through purpose-built facilities and material management expertise.

Number of members: 60

Mailing address: 981 Maughan Road Nanaimo, BC V9X 1J2

Contact name: Sean Kawakami

Subject matter: Organic waste processing and diversion, facility optimization and risk mitigation – specifically Convertus Group, Circular Waste BC organizational background and core competencies related to the region's organic waste diversion goals.

Specific request of the regional district, if any (i.e. letter of support, funding): Consideration of alternative options to support Comox Valley and Strathcona Regional Districts and their respective constituents in the progressive management of organic waste from residential, industrial, commercial and institutional sources.

Requested meeting date: December 3, 2020

Audio-visual equipment needed: Overhead projector with HDMI input capable of supporting PowerPoint presentations.





To be the leading and most advanced organic waste operator in North America.

To act as a key component of the circular economy by maximizing the re-use of nutrients in the food chain and utilize their renewable energy potential.

To play a meaningful role in reducing methane emissions by supporting landfill diversion mandates.

Partner with local communities to design-build-service and operate sustainable organic waste management solutions leveraging our unique European engineering and advances in technology and operations.

The Convertus Group

Together we are the only organic waste processor in North America that offers integrated services.



Design + Build



Operate



Service

BIOLOGICAL TREATMENT

We specialise in three types of biological treatment

- 1. Anaerobic digestion (AD)
- 2. Composting and bio drying
- 3. Odour reduction systems

MECHANICAL TREATMENT

- We specialise in designing and constructing the most efficient and sustainable integrated mechanical solutions
- By cooperating with suppliers throughout the world, The Convertus Group is able to provide solutions at any time and place

PLANT OPERATION

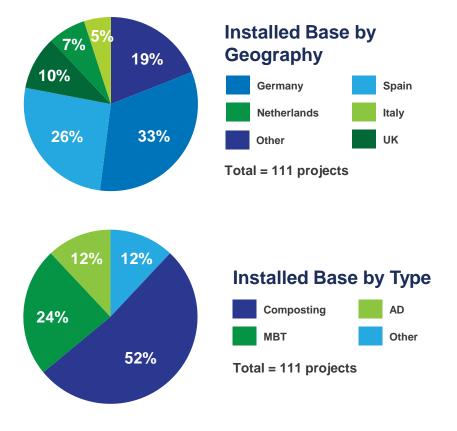
 We operate long term waste management contracts focused on a holistic end-toend waste solution to local municipalities, as well as commercial businesses

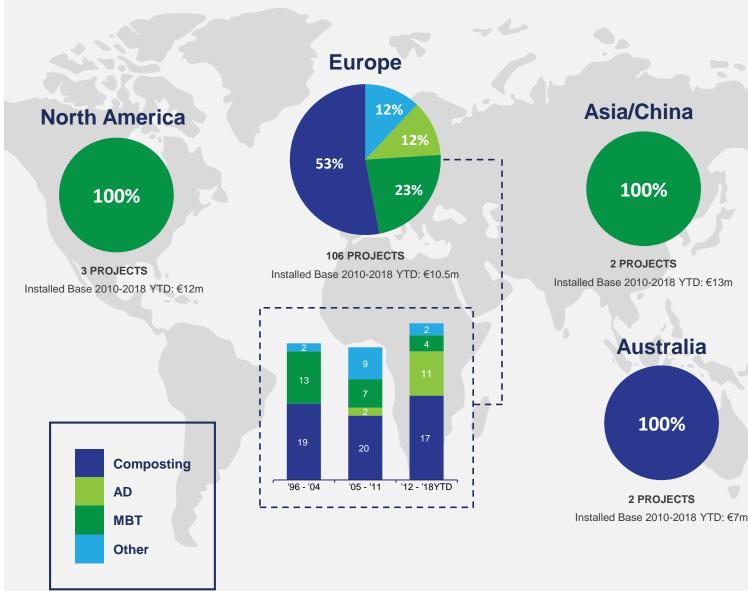
SERVICES

We offer three types of service models

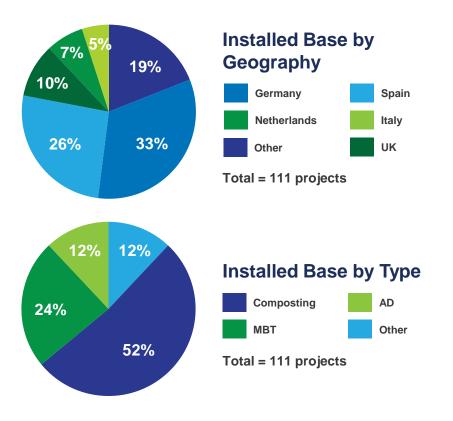
- 1. One-off maintenance
- 2. Visit contracts
- 3. Full service contracts

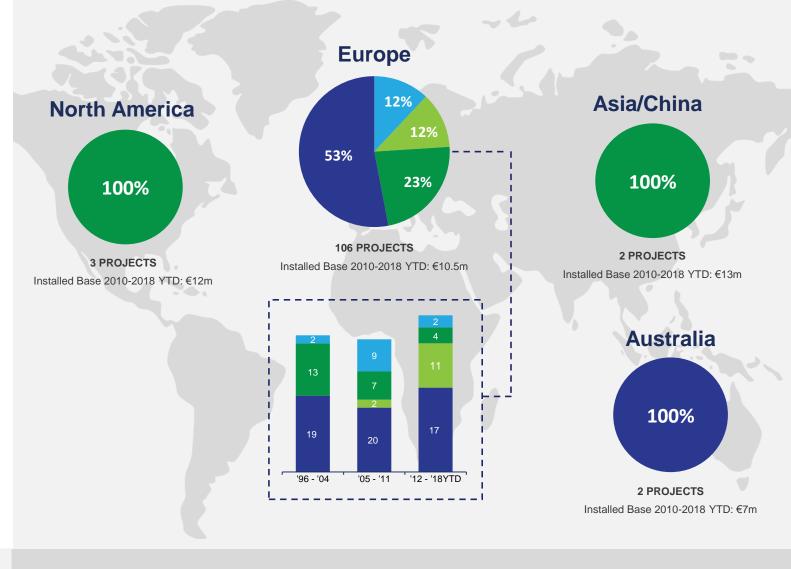
WTT has a large installed base of 114 projects globally





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Blue Chip Clients













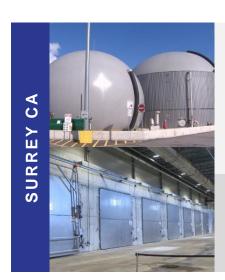


Growth in North America and Australia initiated on the back of existing European customers active in the respective geography. The expansion into Asia can be attributed to the unique track-record of the Company in ALBA's home market Germany



DESIGN + BUILD

Global Hallmark Projects



Surrey Biofuels Processing Facility

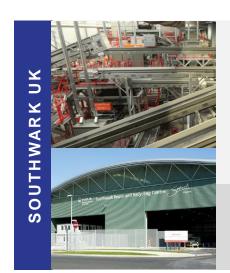
Customer: Orgaworld + Renewi + WTT

Capacity: 115,000 tons of organic waste per annum

Scope WTT: Design and build of the process technique for dry AD-tunnels, hybrid tunnels, composting tunnels, odour abatement system, biofilter, flare and fermentation tank with gas storage

ank with gas storage

The Surrey project is the first fully integrated biofuel plant in North America and serves not only as an example to engineer new plants in NA but also allows WTT to start revamping the large installed base of sub-par brownfield plants across the continent



Southwark Biofuel Processing Installation

Customer: Veolia

Capacity: 80,000 tons of organic waste per annum

Scope WTT: Design of complete MBT with integrated biofuel production. Detailed engineering of machinery

and process-technique

The Southwark project illustrates WTT's engineering flexibility and ability to act as a strategic partner to its clients even in the most complex engineering challenges

MELBOURNE AU

Dandenong Organics

Customer: Sacyr

Capacity: 120,000 tons of green waste per annum (future proof for introduction of FOGO)

Scope WTT: Design and build of the process technique for 12 composting tunnels, odour

abatement system, biofilter



GG

What Our Customers Think

"When completed, the facility will be the largest of its kind in North America with a capacity to process 100% of the City's organic waste, helping Metro Vancouver achieve its regional 70% waste diversion target."

LINDA HEPNER | MAYOR OF SURREY

"In conjunction with [The Convertus Group], Veolia has partnered to build this unique facility in the centre of London. [The Convertus Group] has utilised various equipment to enable us to tackle the challenge of waste management in an urban setting."

MATTHEW PIOTROWSKI | OPERATIONS MANAGER VEOLIA SOUTHWARK

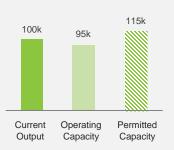
CONVERTUS GROUP

Operated Facilities



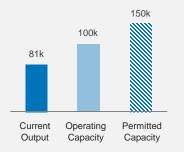


Built: 2016 Size: 5 ha Composting tunnels: 7 AD/Hybrid tunnels: 10





Size: 10 ha
Composting
tunnels: 6 → 8



London ON

Tunnel

Composting



Built: 2003
Size: 2.3 ha
Composting
tunnels: 4
Maturation
Base: 3

Current Operating Output Capacity Permitted Capacity





WITH ACTIVE CAPABILITES

POSITIONED

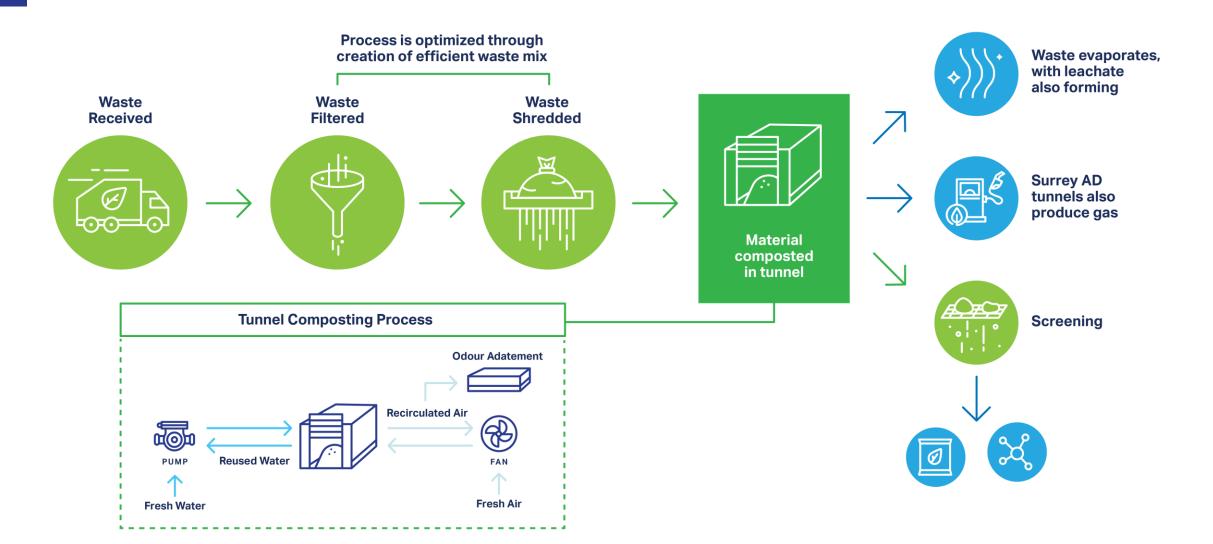
UNIQUELY

OPERATE & SERVICE

Processing Capabilities

Tunnel Composting	-0-/0	Dry AD + Wet AD		Main benefits of offerings:
Ability to obtain 40 - 50% evaporation Deal with complex & contaminated organic waste streams Allows for curbside delivery of fresh waste daily with no pretreatment required	Suita of high	AD suited for complex nic waste streams ble for SSO streams on calorific value erates renewable ethane gas used for ricity generation and tion into natural gas grid	to de	ility to operate closer customer educes processing time / creases throughput educes odour footprint ility to deal with complex and intaminated organic waste

Process Value Chain



Market-leading Odour Abatement and Monitoring Technology

ODOUR ABATEMENT







Ammonium Scrubber

Improved ammonium absorption efficiency means less odour

Improved water absorption of air pollutants results in less odour

Humidification

Improved absorption of odorous gases results in less odour

MONITORING

Real-time Environmental
Monitoring Platform uses
meteorological data and
eNose measurements to
electronically model potential
odour disturbances in the
surrounding communities

Improved ammonium absorption efficiency means less odour

Odour monitoring allows
Convertus to confirm
conclusively that facility is
not responsible for a
particular reported issue

Strong customer relationships

have supported management in securing long-term intake volumes and optimizing contracts.



