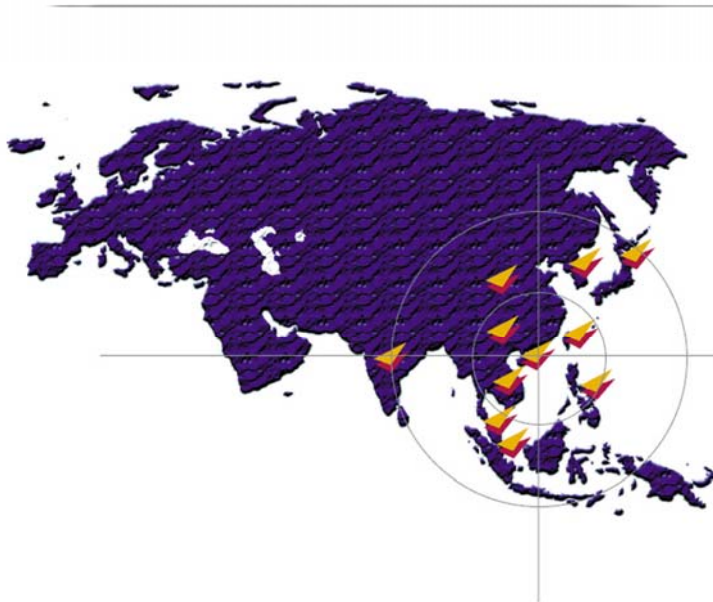


Onyx in the Asia Pacific Region



Onyx in Asia



South Korea



Japan



China



Taiwan



Macau



Hong Kong



Philippines



Thailand



Malaysia



Singapore

India





COLLEX



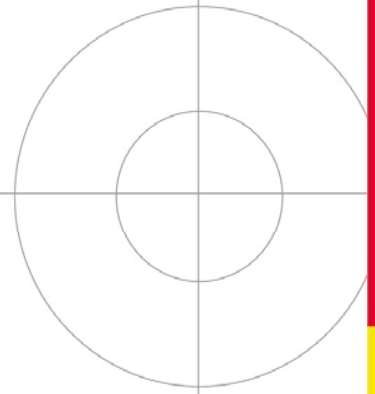
ONYX



Operating in all major
centres around Australia
& NZ.

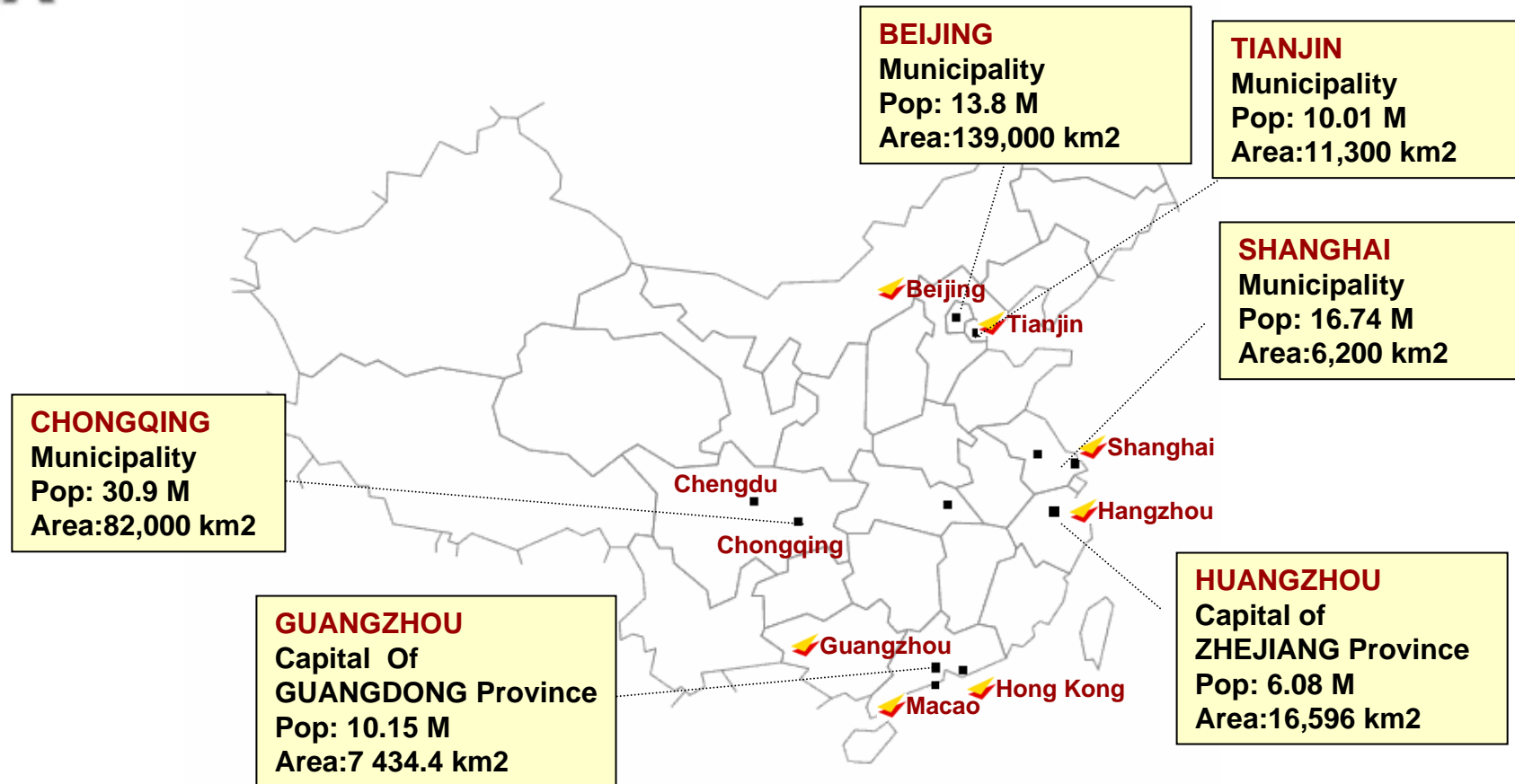
ONYX
in
AUSTRALASIA





Major Contracts and Position in Asia

Our Positioning in Mainland China



Contracts & Position - Hong Kong

- **Green Valley Landfill**

- Sales 25M €/p/a
- 42 million m³
- 7,500 t/d



- **Enviropace – Toxic Waste treatment facility**

- Sales 40M €/p/a
- 100,000 t/ pa capacity



Nb: Figures quoted yr 2002

Contracts & Position - Hong Kong

- **West Kowloon - Transfer**
 - Sales 9.5M €p/a
 - 2,875 t/d capacity

- **North Lantau - Transfer**
 - Sales 3.1M €p/a
 - 650 t/d capacity

nb: Marine Transfer Station

nb: Figures quoted yr 2002



Contracts & Position – Guangzhou

- Xing Feng **Landfill** – 37M €contract value
- Project nature – MSW sanitary landfill – first of its kind in China
- Contract term – Design + 8 years operation + 1 year aftercare
- Commercial operation – Dec 2002
- Airspace – 20 million m³ (Phase I); estimated volume 4,000 - 5,000 tpd



Contracts & Position – Gas to energy

- **Guangzhou** Guang Jia Environmental Protection Co
- **Landfill Gas to Electricity**
- Initial capacity – 1 MW; current output - 0.9 MW



- **Hangzhou** Zhong Jia Environmental Technology Co.
- **Landfill Gas to Electricity**
- Initial capacity – 2 MW / current output - 1.7 MW



Contracts & Position – Tianjin

- **Toxic Waste Treatment Centre – first in China**
- **Rotary kiln incinerator, a physical/chemical plant, and a hazardous waste landfill**
- **Commercial operation – full operation in 2003**
- **Capacity –**
 - Incineration 9,000 tpa**
 - PCT: 10,000 tpa**
 - Landfill: 6,000 tpa**



Contracts & Position – Shanghai

Shanghai Jiangqiao WTE Plant (Puxi)

Testing, Commissioning and O&M Contract

- **Total Capacity:** **1500t/d**
- **Phasel:** **$500\text{t/d} \times 2 = 1000(\text{t/d})$**
- **Phasell :** **$500\text{t/d} \times 1 = 500(\text{t/d})$**
- **Main Equipment Supplier:**
- **Babcock/Steinmuller**
- **Generator capacity:** **$12\text{MW} \times 2$**



Contracts & Position – Shanghai

Novembre 2002

UIOM - SHANGHAI PUXI



- **Laogang Landfill –**
- **DBOT – 300M €contract value (20 years)**
- **Project nature : design, construction, O&M, closure and transfer (excluding aftercare)**
- **Signed : December 2003**
- **Commercial operation – 2005**
- **Estimated volume : 4,000 - 5,000 tpd**

O&M Contract

- **CGS Macau**
 - **270,000 t p/a**
 - **864 t/d capacity**
 - **12 MW**
 - **Contract renewed 2001 for 8 yrs**

***Nb: 500 t/d extension
capacity -project
in progress***

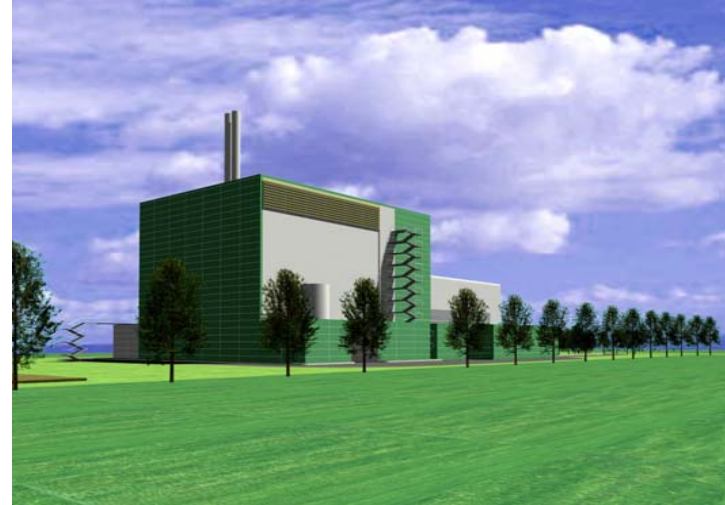


Contracts & Position - Taiwan

Waste to Energy

- **Taitung BOO – first year**
 - **Sales 10.6M €p/a**
 - **300 t/d**

- **Yun Lin BOO – first year**
 - **Sales 22M €p/a**
 - **600 t/d**



Nb: 20 yr BOO contract – 1st yr full operations is yr 2005

Contracts & Position – Taiwan

Waste to Energy

- **Lutsao**
 - **20 yr O&M Contract**
 - **Operation since Jan 2002**
 - **Capacity: 450 tons/set x 2 lines**
 - **Refuse treated: 310,000 tons per annum**
 - **Aprrox. 900 t/d**
 - **Turbine generator: 28 MW**



Contracts & Position – Taiwan

Waste to Energy

- **Taichung City**
 - **O&M Contract**
 - **Operation since 1997**
 - **Capacity: 300 tons/set x 3 lines**
 - **Annual Refuse treated: 292,500 tons**
 - **Approx. 900 t/d**
 - **Turbine generator: 14.5 MW**

Nb: Renewal in Progress



Contracts & Position – Taiwan

Waste to Energy

- **Chia Yi**
 - **O&M Contract**
 - **Operation since 1998**
 - **Capacity: 150 tons/set x 2 lines**
 - **Annual refuse burnt: 97,500 tons**
 - **Approx. 300 t/d**
 - **Turbine generator: 2.5 MW**



Contracts & Position – South Korea

- **ESK Korea – Hazardous & General Waste treatment plant : 100,000 t/ pa capacity**



Contracts & Position – Singapore

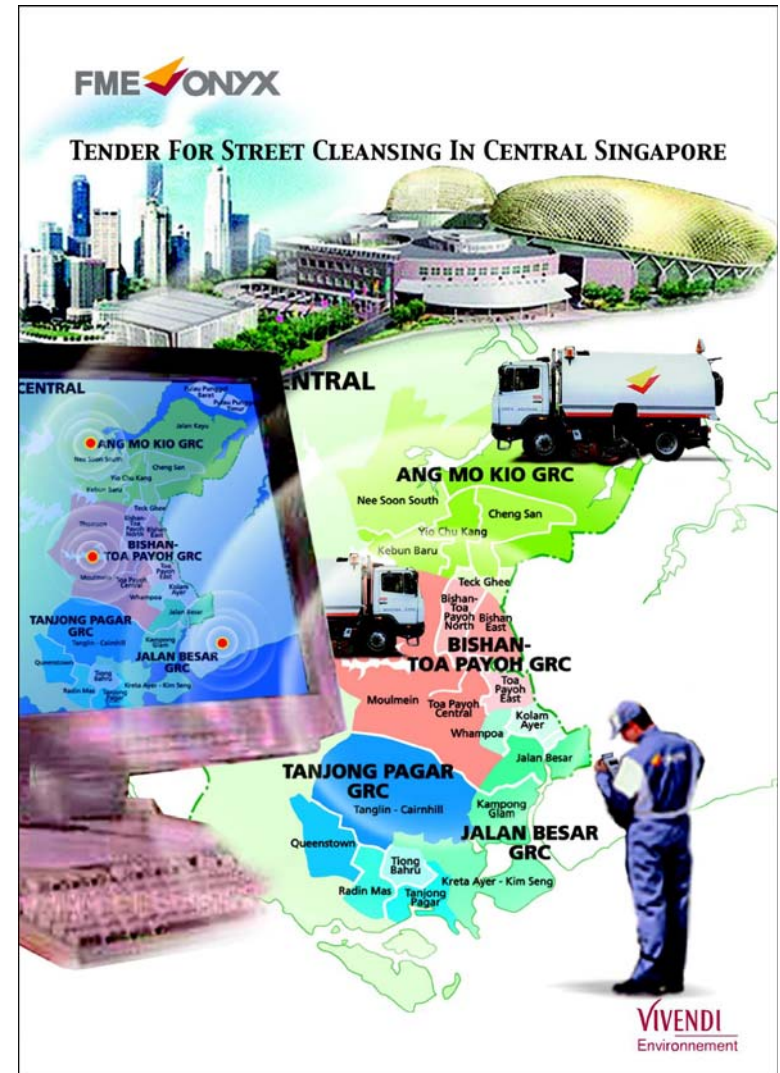
- **Singapore – MSW Collection**
 - Sales 11 m €/p/a
 - Net Sales 4.8 m €/p/a
 - 480 t/d



Nb: Figures quoted yr 2002

Contracts & Position – Singapore

- **Central Sector Street Cleansing Contract**
- 5 years contract
- Starting 1st September 2002
- Total sales of 44.5 M €
- 2.25 million inhabitants serviced
- Fully mechanised contract with GPS Tracking Innovation

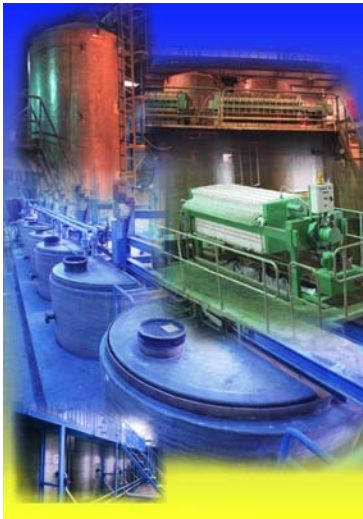


Contracts & Position – Singapore

Industrial waste treatment

Purechem Onyx:

- Toxic waste collection
- Toxic waste incineration
- Effluent treatment
- Chemical fixation & encapsulation
- Solvent recycling



- **Chennai – MSW Collection, Transfer & Cleansing**
 - Sales 7.3M €
 - 1150 t/d
 - 700 kms p/d
Sweeping
 - 2.5m inhabitants serviced



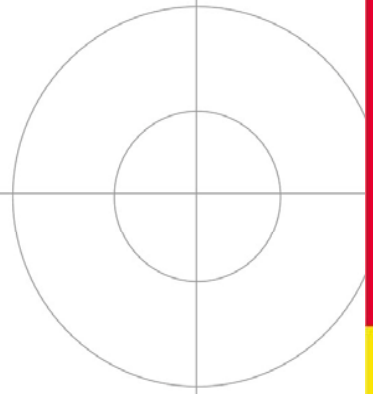
Nb: Figures quoted yr 2002

Contracts & Position – Industrial



- Hong Kong Marpol
- US Army (Singapore & South Korea)
- Toshiba Singapore
- Motorola Tianjin
- Intel (China, Malaysia & Philippines)

- 4 Main HW & Recycling Facilities
 - Hong Kong
 - Seoul (South Korea)
 - Singapore
 - Tianjin



Major Contracts and Position in Australia



COLLEX OVERVIEW

- **2300 employees**
- **Revenue in excess of \$A400M in 2003 (approx €250M)**
- **Serving 550 000 households across Australia**
- **3500 Industrial clients**
- **Waste management service**
- **Industrial service**



COLLEX OVERVIEW

Solid and Liquid Waste Collection
**Specialised Services (Medical, Recycling,
Composting, incineration)**
Transfer Stations and Landfill Operations
Soil Remediation
**Industrial Services (Water Blasting, Refractory
Lining, Pipeline Services, Facility Management,
Protective Coating)**





Woodlawn Bioreactor Project

- Former copper, lead and zinc mine
- 25 million cubic metre void
- Rail transport via Clyde Transfer Terminal
- Operations commenced in September 2004
- Current consent for 400,000 tonnes per year





COLLEX



ONYX





- 50km South West of Brisbane
- Open cut mine site of 27 million m³
- Operations commenced in June 2003
- Excellent transport links
- Joint Venture Partners – Collex & J J Richards





Progressive equipment of the Bioreactor cells for advanced control of the Biodegradation process, including:

- temperature control
- control of moisture content and distribution
- control of the biological process
- settlement control
- environmental performance monitoring





Australian Antarctic Territory Clean up Program:
50 years of accumulated waste returned to Australia for remediation as part of a multi-year partnership program.



Sydney 2000 – Athletes' Village

**Construction
commenced on the
December 1997**

**Construction
concluded June 2000**

**Over 55,000 m³ of
waste generated on site**



NEWINGTON VILLAGE



Construction continues until end of 2005
Retrofit of Village
Construction of more houses and units

Athlete's Village



The future

- **Build on existing platforms focusing on the value chain and internal growth**
- **Develop a portfolio of strategic investors to aid in project development and to reduce our capital injection load**
- **Promote O&M operations with high value added: operating guarantees provided for the Investor and the Client, in terms of costs, performance, and long term sustainability**