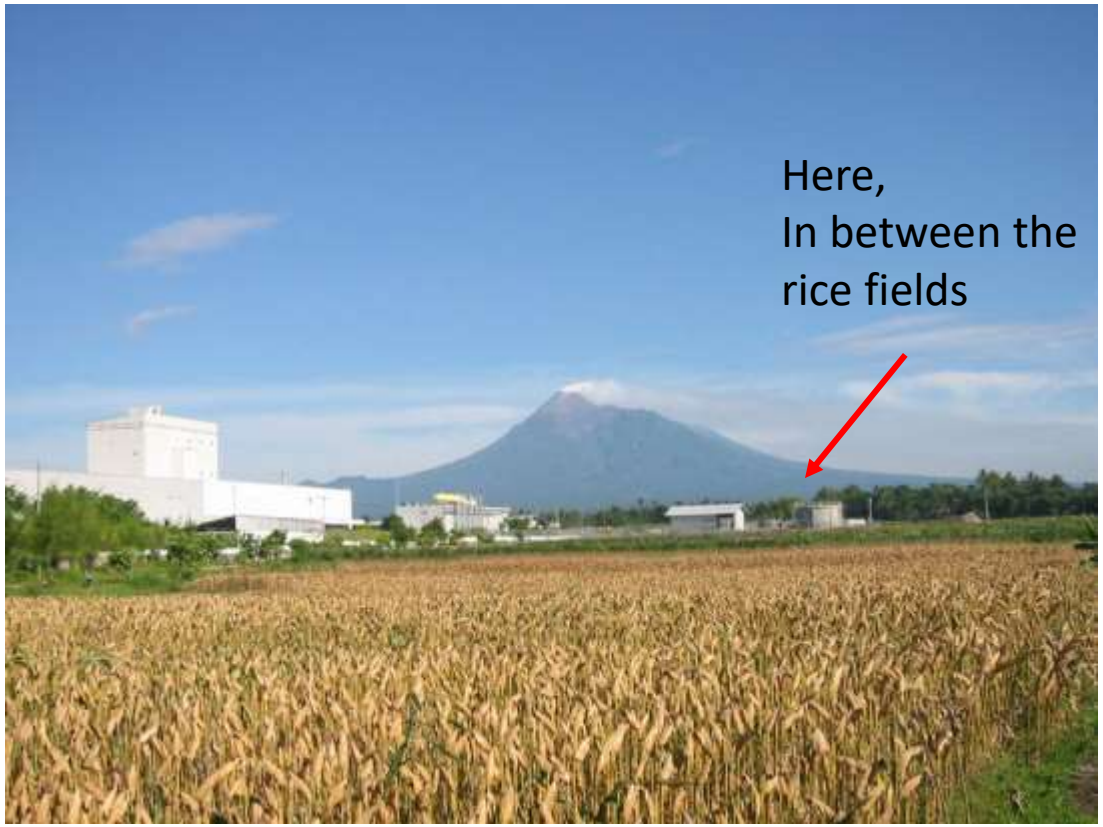
Webinar: "Best Practices within international anaerobic treatment projects 2"



WWTP Baby Formula project Central Java Indonesia

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Biothane Industrial Wastewater Treatment Technology
Asia Pacific Region
VEOLIA WATER TECHNOLOGIES

19 Mei 2021

Content

- A brief introduction to Biothane / Veolia in APAC
- Our references / countries overview
- Our practical experiences
- Challenges

“Opening Ceremony”
WWTP Paper Industry project Ningxia China

WWTP Chemical Industry project Singapore

Brief introduction to Biothane / Veolia in APAC

- Michel Otten
  - With Biothane since 1992, in APAC since 1997
  - Currently based in Kuala Lumpur Malaysia
- Biothane
  - Pioneer in the development of UASB technology
  - Developed over the years into one of the leading Anaerobic technology providers for industrial wastewater treatment.
  - Global activities thru licencing , partners , own offices since 1994 in APAC
  - Acquired by Veolia in 2009
- Veolia
  - Veolia Water Technologies , the in-house design and engineering group for **Veolia** specializes in water and wastewater treatment solutions for industrial clients and municipalities.

"Site Survey"
Upgrade project Indonesia

Veolia Water Technologies - Asia Pacific

1172
employees

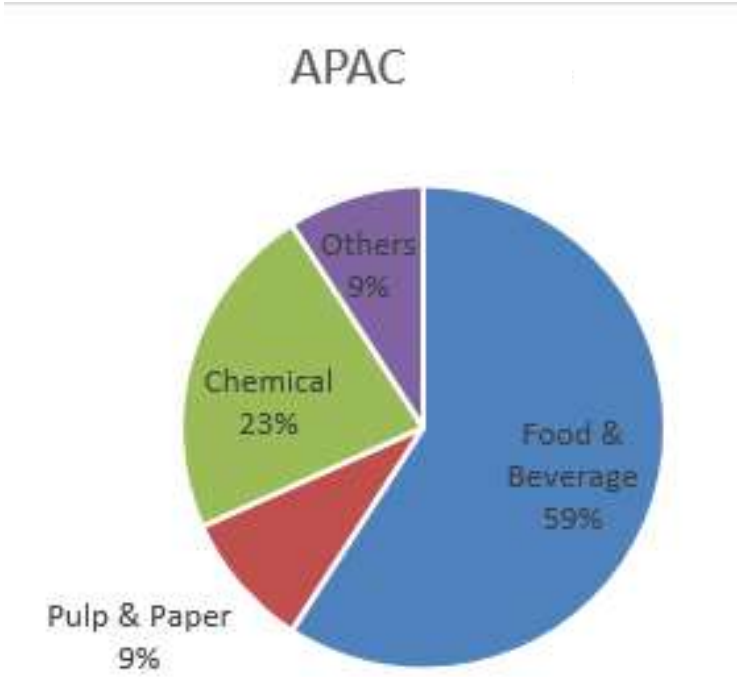
15
Offices

30 +
Years in Asia

Our references / countries overview

Main Markets:

- Food & Beverage
- Pulp & Recycle paper
- Chemical Industry



Countries:

Australia
Cambodia
China
India
Indonesia
Japan
Korea
Malaysia
Myanmar
Pakistan
Philippin
Singapo
South K
Taiwan
Thailand
Vietnam

Our practical experiences

- Geographical range from developed infrastructure to “in the middle of nowhere”
- Climate from bitter cold to tropical
- Local availability of tools & materials (depends on project location)
- Diverse cultures from Western , Muslim , Chinese , Malay/Indo, Hindu, Thai
- Language barriers, not everybody speaks and understands English
- Different standards for design, from DIN to ANSI , JIS , GB (China) , Australia (specifically electrical)
- High tech clients (Chemical Industry) to “no standard”
- Staff turnover, not only internal but also at our clients, in 1 project the client PM changed 3x.
- Staff “quality”, don’t expect highly qualified educated staff among the operator team level.

Challenges

- In tender stage be patient , the design spec may change several times, not every client hires a “consulting engineer” to draft the tender documents in full details.
- Keep your design simple, yet full (fool) proof.
- Be prepared for the challenges in remote locations:
  - Materials & Subcontractor availability
  - Logistics schedules and cost for transport will surprise you
  - Motivation of your own site staff to stay for prolonged time in remote locations
- Adapt yourself (and your staff) to the diverse cultures / habits / even food …….

END

Thank you for your attention