

Total Waste Management
Managing Hazardous Wastes
Nationally in Papua New
Guinea





Our Purpose

TWM exists to create a better reality for PNG,
our environment, people and culture

Our Vision

To showcase PNG as a leader in
developing world class essential services
that create a positive impact on the environment and society

Our Values

Lead the way

Live your legacy

Be honest

We care

Be safe

- Inspired on the crest of a wave (surfing) in the province of New Ireland
- Evolution of a PNG incorporated company located in Port Moresby
- ISO accredited: Quality (9001), Safety (4801) and Environment (14001)
- Servicing a diverse commercial, industrial and domestic client base
- Solid, liquid and hazardous waste management solutions
- Investing in improved infrastructure and technology
- Developing key alliances and partnerships (services and technology)

TWM Family



- Employing 100+ multi skilled national and expat staff
 - National content currently 85%
- Multi disciplinary technical team
- Over 300,000 hours worked annually
- Zero lost time injury since company inception
- Investing in technical and leadership training



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- Solid and liquid waste management
- Hazardous waste management
- Industrial cleaning services
- Landfill management
- Incineration management
- Recycling services
- Waste oil processing
- Project and technical services



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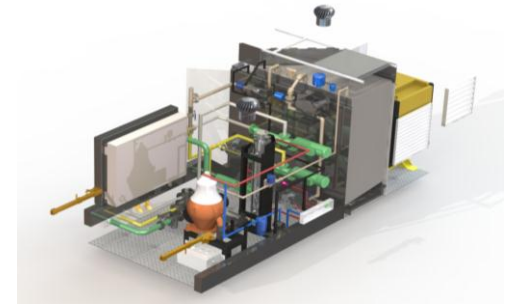
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Waste Oil Management



Reprocessing waste oils in country



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PNG's first mobile waste oil processing unit (WOPU) technology

- Contained within a 20 foot standard modular shipping container
- Processing hydrocarbon based oils, fuels, sludge's and contaminated waters
- 10,000L per day capacity
- Recovering fuel grade blends, heavy sludge's and water
- Fully automated process with HMI interface

Seven Australian (Waigani) hazardous waste import permits – 2017/18

- Acids
- Alkalis
- Biocides
- Non halogenated solvents
- Waste oil
- Oxidisers
- Spent activated carbon

- Compliant with permit conditions and transboundary approvals
- Approved facility disposal agreements
- Financial capacity and insurance to cover transboundary movement
- Skilled chemist and technical staff trained in:
 - International maritime dangerous goods (IMDG)
 - Preparation of transboundary documentation
 - Lab analysis and Consignee acceptance criteria
- Work closely with Competent Authorities and Waigani Secretariat, SPREP



Challenges in Managing Hazardous Wastes



- Unfunded and uncontrolled stockpiling of legacy wastes
- Limited Govt resources to monitor environmental compliance
- Community health and environment risks
- Limited access to funded private sector development programs
- Developing domestic/regional markets for recycled/reprocessed materials

- Public sector resourcing to sustainably manage legacy wastes
- Product stewardship arrangements to fund future wastes
- Hazardous material community education programs
- Private sector industry development programs
- Circular economy approaches and market development programs
- In country investment in proven technologies and capacity development

Developing best practice infrastructure:
TWM Roku Integrated Waste
Management Facility

Developing domestic and regional
services to:

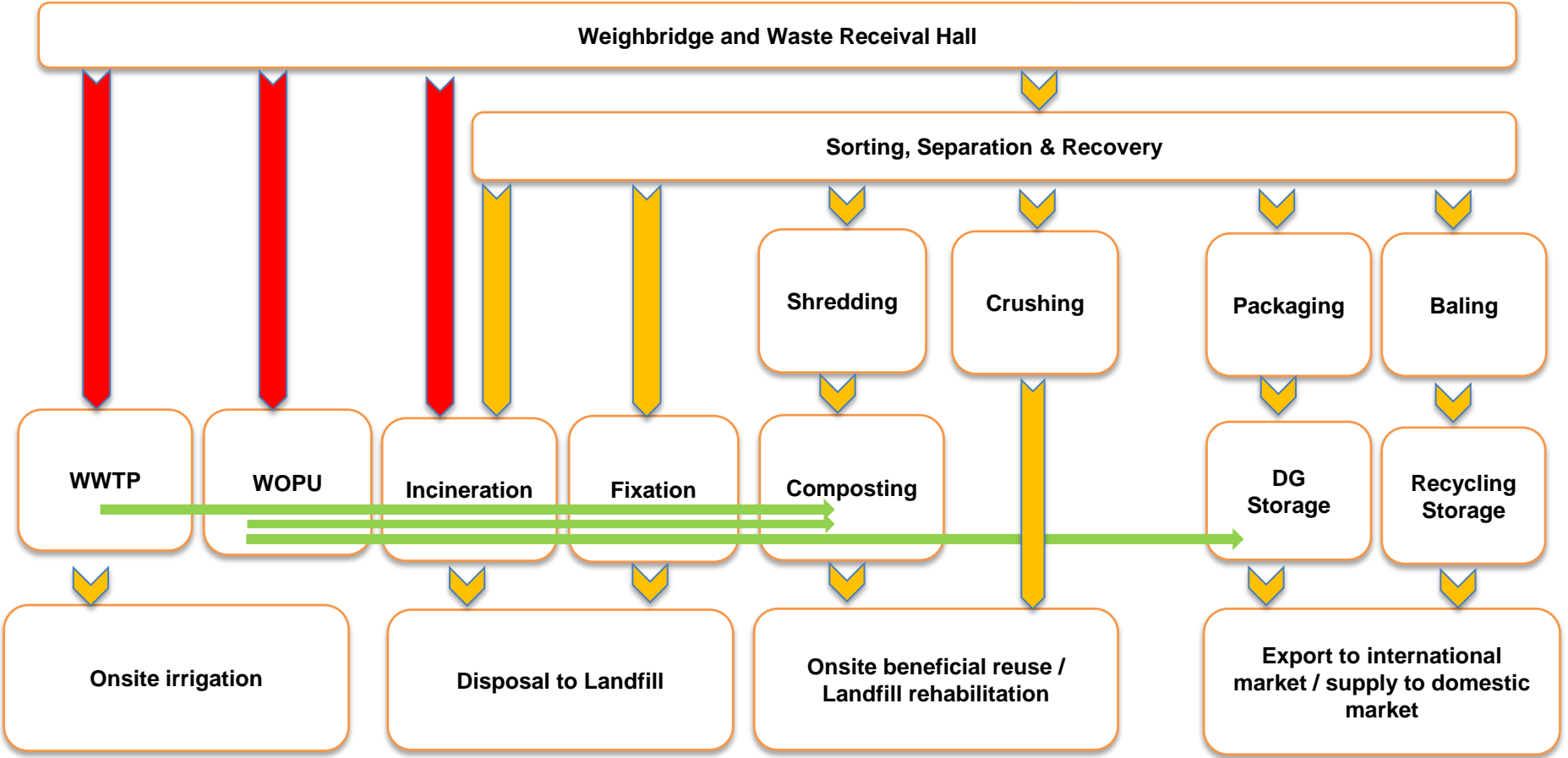
- Sustainably treat and dispose of hazardous wastes
- Reprocess and value add recovered waste materials



- Recycling, remanufacture, beneficial reuse
- Composting
- Incineration plant
- Waste oil recycling (WOPU)
- Fixation plant
- Waste water treatment plant
- Engineered landfill
- Hazardous waste storage



Integrated Waste Management Facility Process Flow



Integrated Waste Management Facility Master Plan



Video – IWMF Master Concept Plan



Tenkyu tru

For more information

www.twm.com.pg

