



This initiative is supported by PacWastePlus-a 85-month project funded by the European Union (EU) and implemented by the Secretariat of the Pacific Regional Environment Programme (SPREP) to sustainably and cost effectively improve regional management of waste and pollution.

# Federated States of Micronesia

## ORGANIC PROJECT

Implementing Organic Processing Programme to divert materials from landfill



## FSM Project Summary

### THE ISSUE

Landfill space is limited and recent waste audit confirmed that 20% of waste disposed to landfill is organic material.

Organic materials in landfill generate methane gas, leachates, odour, and attract vermin. Diversion of this material from the landfill provides multiple benefits for the community and environment.

### THE SOLUTION

Design and implement an organic diversion programme in the state of Chuuk and Yap to beneficially recover and use organic materials in composting processes to improve landfill management issues of methane and leachate generation, odour and vermin. The compost product is being used by local farmers on agricultural crops for food production.

### PROJECT OBJECTIVES

1. Implement organics processing systems in place in Weno and Colonia
2. All communities in Weno and Yap have access to organic waste collection services and education/awareness.
3. Build capacity through development and provision of resources and training materials.
4. Advanced Recovery and Disposal Fee

### Data & Education

- Waste Audit
- Regional Data Collection Monitoring and Reporting Framework
- Data Collection for Organic Materials
- Waste Profiling
- Education and Awareness Support
- Waste Management Decision Tool
- Research Documents approved by the Research Advisory Group
- Organics management guidance documents

### Legislative Environment

- Legislative & Regulatory Stocktake and National Option Paper
- Pacific Standards on Organic management
- National Solid and Hazardous Waste Management Strategy
- Facility Standard Operating Procedures
- Ban of organic material to landfill

### On-Ground Activities

- Design of Chuuk Organic Processing Programme
- Construction of Chuuk Compost Facility
- Supply of composting facility plant (drum Shredder) and equipment (tools) equipment
- Design of Yap Organic Processing Programme
- Improvement of Yap central composting facility
- Construction of village composting facilities in Yap
- Supply of composting facility equipment (tools) for central and village facilities

### Capacity Building

- Capacity Needs Analysis
- Sustainable Financing study tour to Australia
- Build Capacity of government staff and stakeholders in education and awareness, waste auditing, healthcare waste management, organic waste management, asbestos management, hazardous materials management, schools education curriculum, sustainable financing, behaviour change programme development, and disaster waste management



The FSM National Government has taken a significant step forward in environmental stewardship with the introduction of its National Waste Strategy that integrate the waste management efforts of all four states—Yap, Chuuk, Pohnpei, and Kosrae—under a cohesive framework aimed at enhancing sustainability and public health.

Recognising the environmental hazards posed by landfilling organic materials, FSM initiated pilot programmes in Chuuk and Yap to divert organic waste from landfills. These programmes encompass the implementation of

landfill bans on organic waste, the construction of centralised composting facilities, and the development of community-based composting initiatives in areas lacking formal waste collection services. Compost produced from the composting facilities are utilised by local farmers and communities, promoting sustainable agriculture and reducing dependence on chemical fertilisers.

The success of these initiatives is attributed to strong partnerships among the Environmental Protection Agencies, Divisions of Agriculture, and Divisions of Public Works in the two states. Collaboratively, these entities have ensured the effective diversion of organic materials from landfills and their transformation into valuable compost. Ongoing training programs conducted by the Divisions of Agriculture and EPAs continue to empower local communities with the knowledge and skills necessary for sustainable organic management practices.

Through the National Waste Strategy, FSM exemplifies a comprehensive and collaborative approach to waste management, fostering environmental resilience and community well-being.

*With the implementation of this project, we hope that all organic wastes generated in the FSM are diverted to organic waste processing systems, thereby reducing the volume of waste and extending the lifespan of the landfill*

*Hon. Andrew Yatilman, Secretary for FSM DECCEM*

- 1 National Waste Strategy
- 2 Standard Operation Procedure for Compost Facilities



- 1 state wide ban of organic to landfill (Yap State)

- 4 facilities receiving and processing organic materials:

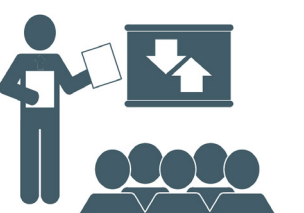


- 1 Central Facility in Chuuk
- 2 Communal facilities in Yap
- 1 Central Facility in Yap

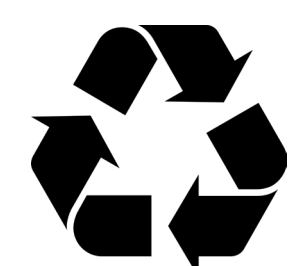


- 3 employment created in Yap to manage the organic facility

- 35 Government staff had their capacity built on Waste Audits



- 18 Government staff had their capacity built on Organic Processing



- 100% self haul organic materials diverted to Yap Compost Facility

## About PACWastePlus

The Pacific – European Union (EU) Waste Management Programme, PacWastePlus, is a 85-month programme funded by the EU and implemented by SPREP to sustainably and cost-effectively improve regional management of waste and pollution.