



# Modernizing American Samoa's Solid Waste Infrastructure

MSW Gasification Plant | Recycling Infrastructure | Derelict Vessels

## Legacy Pollution

Territorial Climate & Infrastructure Workshop

# MSW Gasification Plant



**Project Cost: \$ 10M**

**Plant Capacity**  
Up to 60 Tons  
Per Day

**Acceptable Waste**  
Kitchen Waste,  
Cardboard,  
Plastics, Rubber,  
Shredded Tires,  
Wood, Greens

**Gasification  
Byproducts**  
Syngas,  
Ash

**Power Output**  
0.8 MW

# Benefits of MSW Gasification Plant



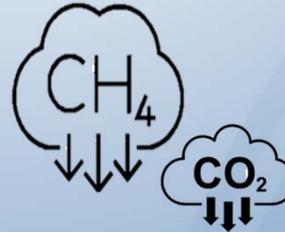
Extend life of the existing landfill (Remaining life < 4 years)



No leachate into ground and adjacent properties



Very low emissions or foul odors.



Reduce CO<sub>2</sub> and CH<sub>4</sub> emissions.  
~5,000 tons CO<sub>2</sub>e per year



Power production: 0.8MW



Employment : 20 FTE

# Gasification Plant Status

- RFP Process – Completed
- Project Awarded – Yes
- Air Permit Application – Approved by AS-EPA
- Land Lease – Fully Executed

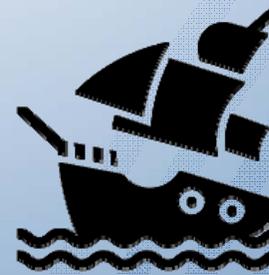
This project is shovel ready

# Recycling Infrastructure

## Issues:



Municipal Solid Waste  
Accumulation and Disposal



Abandon & Derelict Vessels

## Challenges:

- Limitations to existing SW and Recycling Infrastructure
- Geographical Location
- Ocean Freight Cost - not economical for recyclers
- Lack of Funding

## Project Goals: Modernize SW Management Approach

- **Develop SW Infrastructure for Recycling**
  - **Construction of 6 Transfer Stations**
    - sort and segregate MSW
    - provide feedstock for Gasification Plant
  - **Funding for Waste Management and Recycling Equipment**  
Scrap Metal and Tire Shredders, Balers and waste segregation
  - **Funding for the implementation of a Recycling Program**
- Funding for the removal of 10 Abandoned & Derelict Vessels

Cost: \$15.5M