



REPUBLIC OF INDONESIA  
MINISTRY OF NATIONAL DEVELOPMENT PLANNING/  
NATIONAL DEVELOPMENT PLANNING AGENCY

# PUBLIC PRIVATE PARTNERSHIP

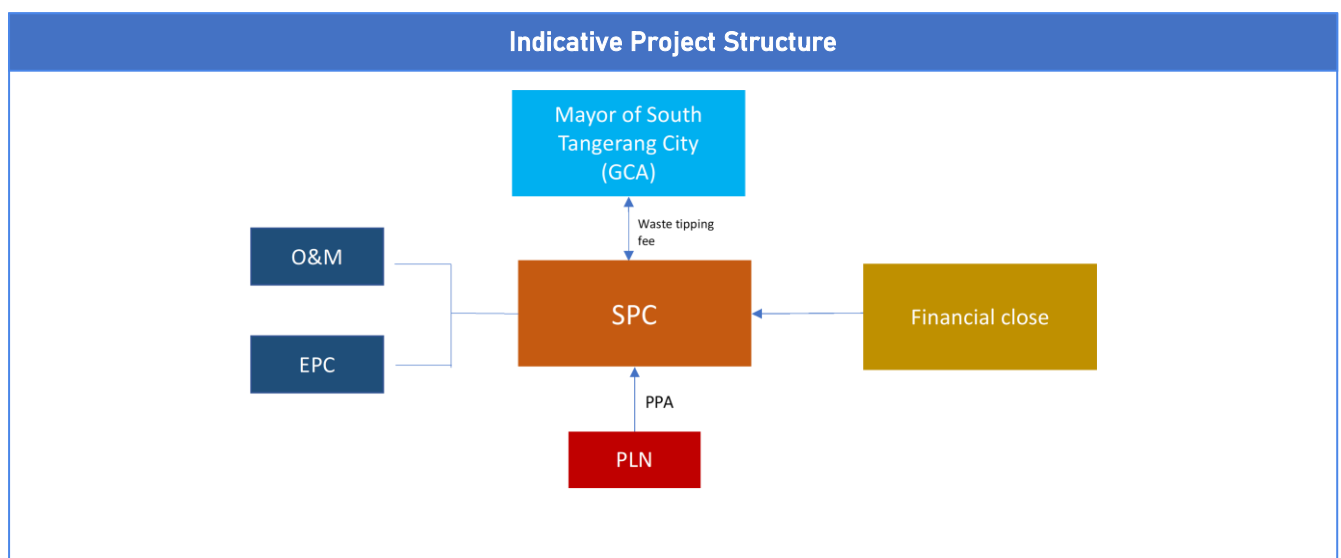
INFRASTRUCTURE PROJECTS PLAN IN INDONESIA

# 2022

# Development of Waste to Energy Facility In South Tangerang

Location : South Tangerang, Banten Province

Sector : Waste Management	Sub-Sector : Waste to Energy
	<p><b>Description:</b> Waste management of 800 tonnes per day is located in South Tangerang, Banten. Electricity output and Purchased Agreement with PLN will be determined during the finalization of the Final Business Case. The scope of this project is to design, build, finance, operate, and maintain the WTE plant and supporting infrastructure.</p> <p><b>Estimated Project Cost:</b> USD 122.9 Million</p> <p><b>Financial Feasibility:</b> IRR : 10% NPV : USD 36.84 Million</p> <p><b>Estimated Concession Period:</b> 20 years.</p> <p><i>Source : OBC, 2019</i></p>
<p><b>Government Contracting Agency:</b> Mayor of South Tangerang City</p> <p><b>Type of PPP:</b> Solicited</p> <p><b>Return of Investment:</b> User Charge</p>	

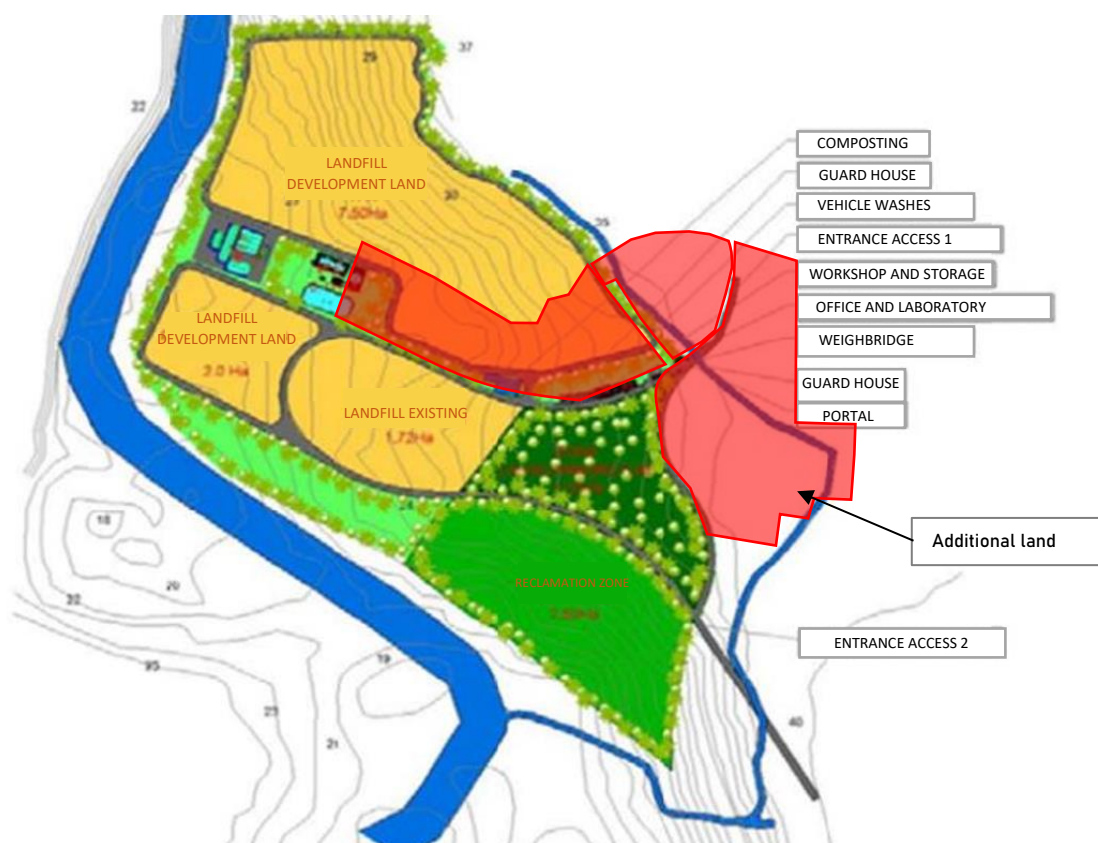


## Project Digest

<b>Project Title</b>	<b>Construction of Waste to Energy Facility in South Tangerang</b>
<b>Government Contracting Agency</b>	Mayor of South Tangerang City
<b>Implementing Agency</b>	Environment Agency of South Tangerang
<b>Preparation Agency</b>	Environment Agency of South Tangerang (MoF's PDF)
<b>Project Cost</b>	USD 122.9 Million
<b>Estimated Concession Period</b>	20 years
<b>Location</b>	South Tangerang, Banten Province

Source : OBC, 2019

### 1. Project Picture (Map and/or Illustration of Project)



Picture 1 – Layout of South Tangerang Waste to Energy

## 2. The Opportunity

### 2.1. Project Background

Population growth and continuous industrialization in South Tangerang will increase the amount of waste generated. The capacity of Municipal Solid Waste (MSW) in South Tangerang is estimated around 970 tonnes/day, with the infrastructure condition is inadequate and has a negative impact of environment. South Tangerang City needs a stable and efficient waste management plan to use solid waste to produce renewable energy. This is the reason South Tangerang City has planned to build and operate Waste to Energy facilities.

## 2.2. Project Description

The description of this project based on OBC result is as follows:

Project Name	: Waste to Energy
Project Location	: South Tangerang, Banten
Project Method	: Design - Build - Finance - Operate - Maintenance - Transfer (DBFOMT)
Project Area	: 4 hectares
Estimated Cost	: 122.9 Million USD
Financing scheme	: Public Private Partnership
Government Contracting Agency	: Mayor of South Tangerang City
Concession	: 20 years
Waste volume / capacity	: 800 tonnes/day

## 2.3. Project Objectives

The objective of South Tangerang Waste to Energy is to operate a solid waste treatment facility. This project will build a solid waste treatment facility for South Tangerang and will contribute to the environmentally friendly solid waste management and economically efficient.

## 3. Business Entity's Scope of Work

Design - Build - Finance- Operate - Maintenance - Transfer

Project scope is as follows:

1. To design, build, finance, operate and maintain WtE plant and its supporting infrastructures at Cipeucang landfill. In the end of concession period, the facility must be handed over to the GCA;
2. To build a transmission line and hand it over to PT. PLN upon completion; and
3. To handle the residue produced by the WtE plant.

## 4. Technical Specification

The technical specifications for South Tangerang Waste to Energy are as follows:

No	Facilities	Capacity
1	Area	4 hectares
2	Incineration capacity	800 tonnes/day
3	Electricity generated	11.7 MW
4	Electricity sold	10.0 MW

Source : OBC, 2019

## 5. Environmental Impact Assessment (EIA/AMDAL) Findings

The documents will be prepared by the GCA and finalized by Special Purpose Company.

## 6. Land Acquisition and Resettlement Action Plan

According to the OBC document, it requires the provision of additional land for supporting facilities. The South Tangerang City Government has already allocated the budget needed for that purpose. Further mapping of the existing land status and the land area that need to be expanded is being assessed in the final business case.

## 7. Project Cost Structure

Estimated Project Cost		USD 122.9 Million
Indicative Debt to Equity Ratio		
- Debt Level		75%
- Equity Level		25%
IRR		10%
NPV		USD 36.84 Million

Source : OBC, 2019

## 8. Government Support and Guarantee

Government guarantee will be provided for this project. The GCA will also propose Government Support for this project..

## 9. Contact Information

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