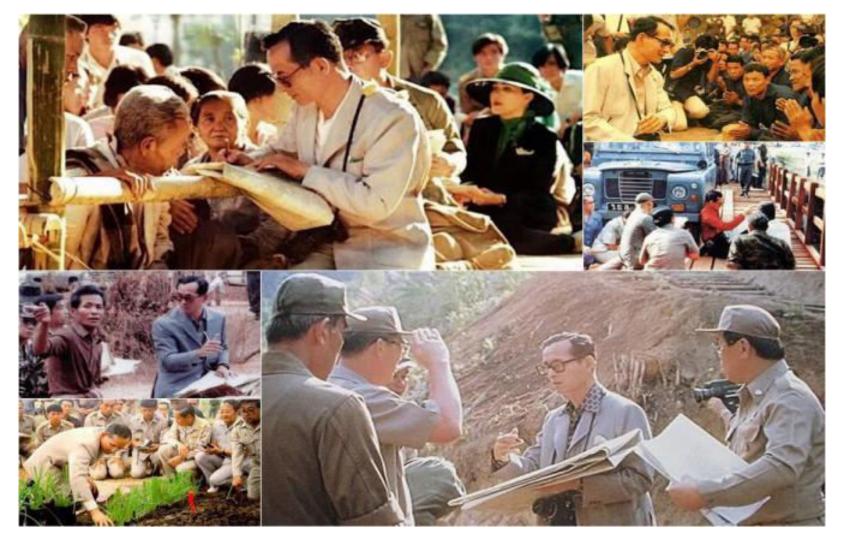
Climate Resilient City and Urban Environmental Sustainability

# Kumpaeng Municipality Langu District, Satun Province, Thailand





# Phumiphon Adunyadej (King Rama 9)



# Climate Resilient City and Urban Environmental Sustainability



**Kumpaeng Municipality** 



Mr. Wichit Saelim

Mayor of Kumpaeng Municipality

# Map



**Langu District** 

# **Kumpaeng Municipality**



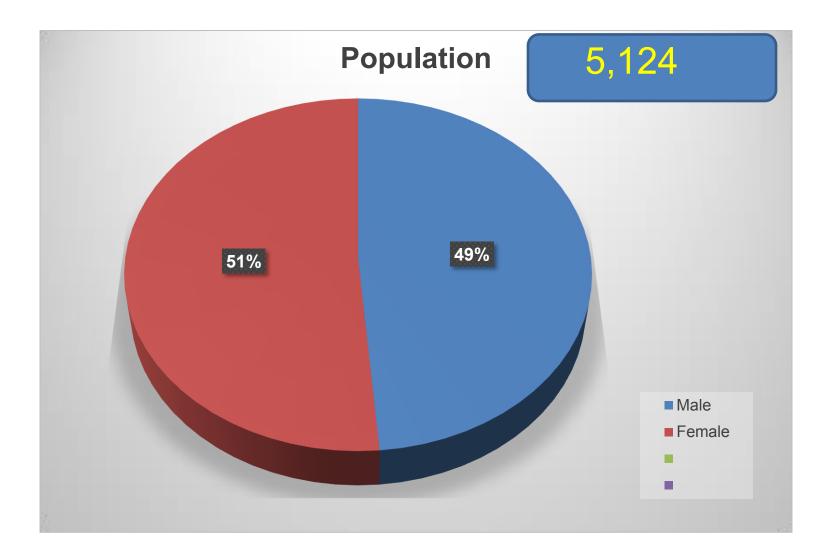
### **Location of the Municipality**











Area =  $2.61 \text{ Km}^2$ 

Number of households = 2,041

Average income = 45,000 THB (1451.612 USD \$) / person

Municipality But there is a secondary growth of the municipality of Satun. It is a trading center. The exchange of agricultural products with fisheries. And other products.

### Topography.

The typical landscape of the tambon Kampaeng. There are canals, lakes, canals, canals and creeks surrounding the four surrounding areas, providing water for agriculture, fisheries, livestock throughout the year, and the city center is a commercial, commercial and service center.

### Economy.

Population in Kampaeng Municipality Most of them are engaged in trade, followed by agriculture, fisheries, livestock farming, gardening and general labor. The average income is about 86,111 Baht (277.77US \$)/person

Center point of district

Center of tourism

Port city

Center of trading

Agriculture

Multi Religion





# Context/introduction

Situation to date From the current situation of solid waste, it is found that the trend of solid waste is occurring all over the country. Countries tend to increase every year.

By 2016, it was found that Thailand had a total waste amount of 27.06 million. Or the rate of solid waste is 1.14 kg per person per day.

## Context/introduction

In city The amount of waste is 6 to 7 tons per day, with the waste components as follows.

- 1. 30% organic waste
- 2. General waste 43%
- 3. Recyclable waste 25.5%
- 4. Hazardous waste / hazardous waste 1.5%

# Climate/disaster conditions

- 1. flood
- 2. Hot weather
- 3. Rainy storm

### City's issues/needs

- Raising the Competitive Edge and Breaking the Middle Income Trap to High Income
- 2. Reducing social disparity
- 3. Support for regional and urban linkages.
- 4. Creating eco-friendly socio-economic growth.
- 5. The effective administration.
- 6. Dirty Poor solid waste management

### **Specific actions**

- Maintaining Natural Capital for Green Growth Take advantage of natural capital.
- 2. Promoting eco-friendly consumption Promoting production, investment and green jobs.
- 4. Pollution Management and Environmental Quality Management
- 5. Increasing adaptability to climate change
- 6. Management to reduce disaster risk.

### **Municipality initiatives**

**Specific action (continued)** 

**Project implementation** 

### **Green City**

**Thailand Environmentally Sustainable City Indicators** 

- 1. Natural Resources and Biodiversity
- 2. Man made Enviroment
- 3. Learning and Good Management
- 4. Waste or Pollution
- 5. Environmental Friendly Lifestyle and Consumption on Sufficiency Economy





# Action Plan for Improving Solid Waste Management in the city

#### Title Objective plan

Overall goal

Objective 1: Reduced amount of waste going into landfill

	Description	Timeline	Responsible by	Resources
Improved local policies on Waste Management	ordinance on solid waste management under the relevant law in the collection, storage, storage and disposal of waste. Waste disposal Collection of fees for the collection and transport of waste. Solid waste.		Kumpaeng Mulnicipality	Kumpaeng Municipality

	Description	Timeline	Responsible by	Resources
Waste separation and transportation programme	Separation of solid waste in the area. Organize collection and transportation of solid waste. Managing waste and hazardous waste from the source.	Oct 2017 – Sep 2018	Public Health Environment Dvision	Kumpaeng Mulnicipality
Improved waste recycling technology	Recycle Plant	Oct 2018 – Sep 2020	Kkumpaeng Mulnicipality	Kumpaeng Mulnicipality Central goverment

	Description	Timeline	Responsible by	Resources	
Ojective 2: Reduced hazadous waste					
Activity 1 Reduce	The waste is classified into one of the rubbish dumps.	June 2017 – Sep 2018	Public Health Environment Division	By Kumpaeng Municipality	
Activity 2 Knolage	Campaign to educate the use of hazardous waste.	Oct 2017 – Sep 2018	Public health Environment Division	By Kumpeang Dunicipality	
Activity 3 Mangement	Dispose of waste according to academic principles.	Oct 2017 – Sep 2018	Kumpaeng Municipality And Satun Provincial Administration Organization	Satun Provincial Administration Organization	

	Description	Timeline	Responsible by	Resources	
Ojective 3: Reduced GHG emissions from solid waste/land fill					
Activity 1: Reuse	Reuse Reduced Recycling	Oct 2017– Sep 2018	Public Health Environment Division	By Kumpeang Municipalit	
Activity 2: Bio-waste use for biogas	Take organic waste to make bio gas.	June 2017 – Sep 2018	Public Health Environment Division	By Kumpaeng Municipalit	
Activity 3 Eco- Transport	Eco-friendly travel campaign	Oct 2017 – Sep 2018	Public Health Environment Division	By Kumpaeng Municipalit	

# Challenges/Opportunities towards policy to achieve SDGs

Strategic Development and Empowerment

- (1) Development of people throughout life.
- (2) Raising education and learning to be of equal quality and thoroughness.
- (3) instill discipline, morality, ethics, desirable values
  - to make people happy

management system.

- (2) To create the happiness of the Thai family.
- 1. Equal Opportunity and Equal Opportunity Strategies
- Strategies for Creating Growth on Environmentally Friendly Quality of Life
   Strategies for balancing and developing the governmental

### **Municipality initiatives**

### Strength.

- 1. Policy of Management
- 2. Participation of people and civil society networks And other government agencies.

### Weakness.

Kampaeng Municipality Langu District is a local area. Medium has a low budget. This results in a planned operation. Budget expenditures and project / activity activities Did not meet the target.

### **Demand issues**

- Raising the Competitive Edge and Breaking the Middle Income Trap to High Income
- 2. Development of people's potential according to age and system reform to create a high-quality society.
- 3. Reducing social disparity

### **Demand issues**

- 4. Support for regional and urban linkages.
- 5. Creating eco-friendly socio-economic growth.
- 6. The effective administration.

## Waste source

Government



**Business District** 



Fresh Market









residential area



Travel place





Hospital / health center

school

### Goal and objectives

#### Goal

Quality of life People are living environmentally friendly.

### Objectives

- 1. The amount of waste entering the disposal system at the destination is reduced.
- 2. Reduced dangerous waste to the community for the purpose of sending the correct disposal according to academic principles.
- Together with the province, the action plan for the waste management of the organization (Local and Provincial levels)

# Indicators of goals

- 1. The amount of solid waste entering the destination disposal system decreased by 5 percent.
- 100% of the community has established a "hazardous waste collection point" at least one community.
- 3. 85% of the solid waste Get rid of the academic correctly.



## Waste separation





# Separation of Recyclable Waste













# A brief stakeholder analysis

### Stakeholders.

- 1. people
- 2. community
- 3. Government
- 4. Place of education
- 5. Religious place
- 6. public health

# financial resources could be mobilized to make it happen.

- To trainning and develop the people of the community municipality to have the capacity and potential. Effective waste management
- To create a participatory process from all sectors and people in the area in exchange for learning advice. Decide and collaborate on projects related to waste disposal.
- To create a mechanism. And the network for monitoring, monitoring, and monitoring of solid waste management by involving the public sector.
- 4. To Reduce the amount of solid waste entering the destination disposal system by 5 percent.

# make it happen.









# make it happen.











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