

Ho Chi Minh City Green Growth and Low Carbon Emission

Climate Change Bureau – DoNRE
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1. Ho Chi Minh City

Problems

- Domestic economy is developing with a backward industry and technology
- Electric energy consumption per unit of product is so high, average 3-5 times higher than in other countries.
- Lack of infrastructure, the existing infrastructure with a low quality and uncomprehensive.
- The general management is not very efficient.
- Lack of human resources with a high capacity
- Investment capital.
- Climate change

1. Ho Chi Minh City



Demand

- A bilateral and multilateral cooperation.
- To enhance receiving technology transfer.
- A mechanism and policies for cooperation.
- To increase the capacity of human .
- To search for **sustainable financial assistance mechanism** for investment that bring out a **dual benefit**: to adapt to climate change and get economic benefit.



For

Economic- social development forward green and sustainable growth.

2. Priority fields in climate change adaptation activities

1. Urban planning
2. Energy
3. Transportation
4. Water Management
5. Waste Management



3. Potential Projects for JCM application

1. Urban Planning

- **Target:** Urban Planning follows low carbon emission
- **Planning:** Do a pilot project of low carbon emission urban. To analyse the investment cost, economic- social benefit and compare with the normal standard construction.
- **Estimate cost:** 2-5,000,000 USD



3. Potential Projects for JCM application

2. Energy

Energy consumption quantity:

- 45-54 million kWh of electricity per day.
- Nearly 3,000 tons of gasoline, oil, gas per day.
- Over 1,000 tons of charcoal per day.

Areas	Proportion of energy consumption
Industry	40-45%
Trading	12-15%
Living activities	39-42%
Lighting	6-10%

3. Potential Projects for JCM application

3. Transportation

- **Status:** 500,000 cars, 4.5 million of motorcycles, 3,600 buses (24-54 seats).
- **Solutions:** Use clean fuel (LPG, CNG): 57 CNG buses (add 300 buses until 2015), 359 LPG taxi
- **Planning for urban railway development:**
6 Metro Line: Metro line number 1 and 2 have been constructing, they will be completed by 2017 and 2018 .



3. Potential Projects for JCM application

4. Water Management

- **Surface water:** exploitation capacity until 2025 around 3,000,000m³/day.night (contributed for 95%)
- **Underground water:** Exploitation yields until 2025: 100,000m³/day.night (contributed for 5%)
- **Loss rate of water :**
 - Rate of water loss in 2013 is 35%
 - If can reduce to 16-17% → city has 300,000 m³/day more.
- **Planning:** to build a Plan on water management forward friendly with environment and ecologic preservation in HCMC

Estimated investment: 300.000USD in 18 months

3. Potential Projects for JCM application

5. Solid Waste Management

- **Status:** Arising per day 6,400-7,200 tons of municipal solid waste, to be collected & treated. In which 95% (wet weight) is land filled and 5% to produce compost. In 2012, nearly 104.66 million USD used for municipal solid waste collection, transportation and treatment, and 94.02% of spending is from the City's budget.
- **Planning:**
 - Pre-feasibility study on solid waste treatment by incineration technology with integrating into electricity generation
 - Pre-feasibility study on sludge treatment plant with capacity 500-1,000 tons/day. Estimate capital: 47,850,000 USD

3. Potential Projects for JCM application

6. Action Plan of Climate Change Adaptation

- The Program of Green Growth & Low Carbon Emission is reflected in the Action Plan of Climate Change Adaptation period 2013-2015 in HCMC with **7 priority fields**:

- ① City planning
- ② Energy
- ③ Transportation
- ④ Water resource management
- ⑤ Agriculture
- ⑥ Healthcare & public health
- ⑦ Waste management



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- The Action Plan of Climate Change Adaptation period 2016-2020 in HCMC is on preparation