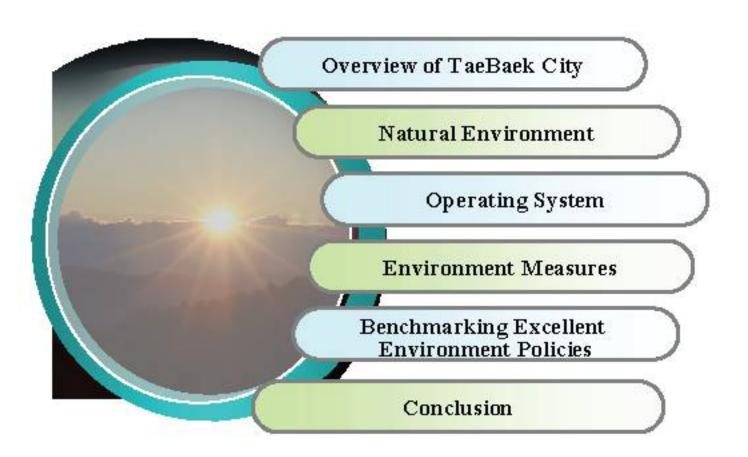




# Contents

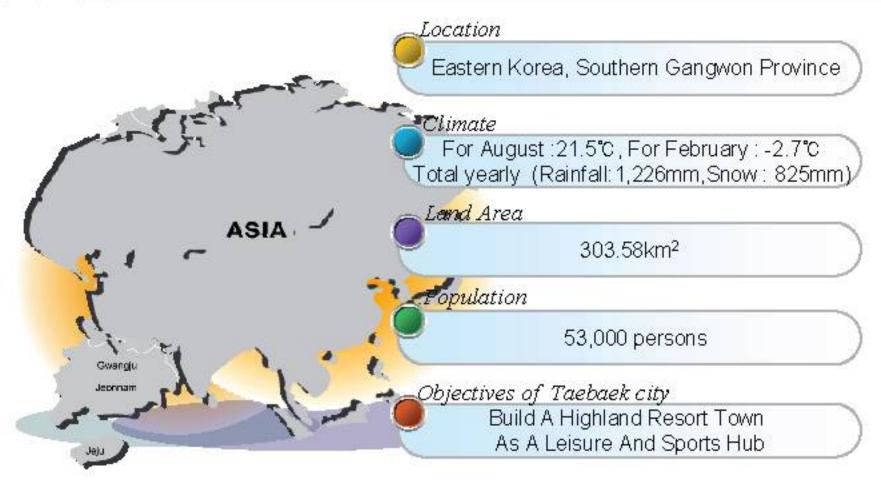






## Overview of TaeBaek City

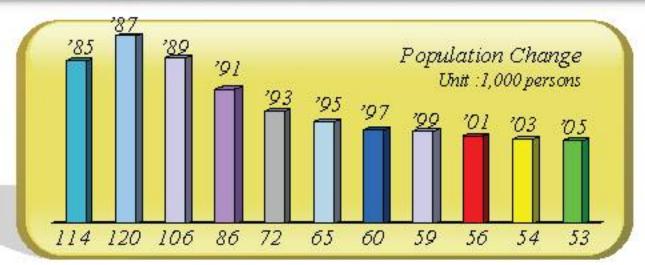


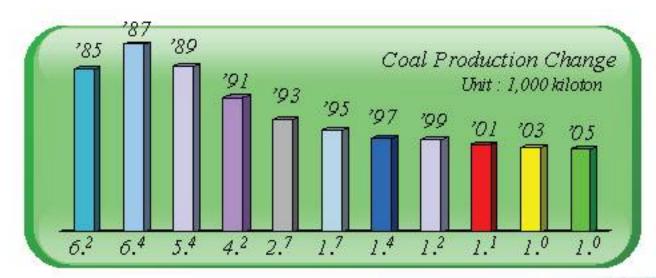




## Overview of TaeBaek City









### **Environmental Characteristics**



### Geographical Characteristics

Located in the highland of The Backdu Mountains in the Korea Peninsula

- Average altitude of 700m above sea level

Located at the fountainheads of the Han River (Seoulbound) and Nakdong River(Busan-bound)

### Regional Characteristics

Known as one of prosperous coal mining regions in Korea until 1989

Developing as a tourism, leisure and sports city in the present day

### Topographical Characteristics

Located in one of typical mountainous terrains with steep ravined slopes.

Easily vulnerable to a
variety of damages by the
outbreak of swift currents
during the summer rainy
season /With cool weather
and dry season (Spring,Fall)
/known as a typical region
with severe winter weather





## Environmental Characteristics



#### Air Pollution

### Pass Conditions

Nuisance by coal mine dust

### **Current Conditions**

#### Only a few mining stations being operated, which diminished from

which diminished from

-Taebaek being acknowledge as a very popular summer retreat with clean air

### Water pollution

### Pass Conditions

Severely contaminated streams

#### **Current Conditions**

#### Rather clean water

being retrieved in the streams thanks to the mine water and sewage disposal facilities.
However, difficulties still lingering to retrieve uncontaminated water condition

### Garbage Disposal

#### Pass Conditions

Self-imposed Separate garbage collection

#### **Current Conditions**

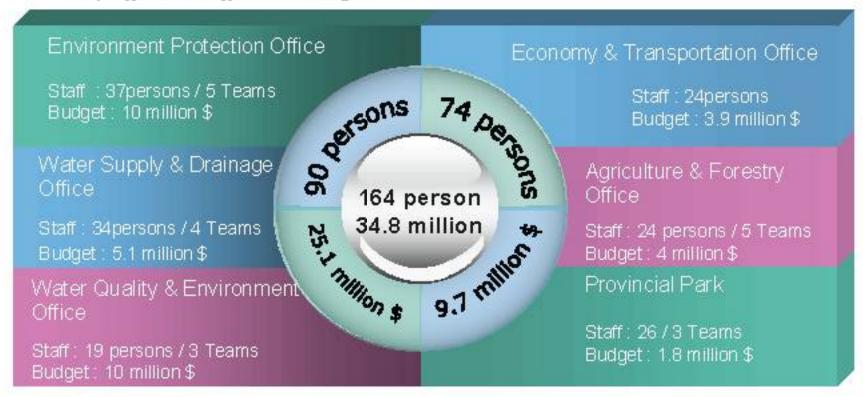
The volume-rate garbage disposal system established



## Operating System



City Affiliated Offices & Budget



Environmental Offices

Support Offices



## Operating System



- Central Government organizations:
  - Taebaek National Forestry Bureau of Korea Forestry Office
  - Coal Damage Prevention Group
- Frivate Organizations :
  - 15 Organizations including the Coal-Mining Region Environment institute, etc.
- Major Citizens' Participation Programs
  - Forest Experience Event
  - School Forest Growing Project
  - Garbage Disposal Collection Education
  - Living Garbage Reduction Education
  - Ecological Experience program



### **Environmental Measures**



### Operation System



# Contaminant Discharging Factories

Total: 784

Air: 62

Sewage: 109

Noise/vibration: 17

Dispersing dust: 60

Soil Pollution: 32

Livestock Sewage: 72

Sewage Disposal: 222

Domestic sewage odor:210



### Air Pollution



Coal Mine Damage Prevention Project

Erosion Control Work

Reduced
Coal Mining Stations

Very Few Factories

Mountainous Terrain

Repress Coal Dust-Dispersing



Fine Air Conditions



### Water Pollution



#### Volume-rate Pollution Control system

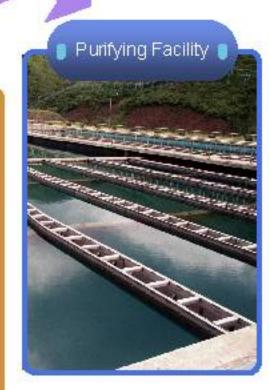
National 4 Main Water Systems Designated, with Development Limitation Policy

- Water quality goal
   BOD 1.5mg/ℓ
- Extending the pertinent substances up to BOD, T-P
   to be initiated (2011~2015)

Mine Water Purifying

Stream Yellow-Whitening and Heavy Metal Contamination still Maintained

- Microbiological and bio-chemical processing treatment.
- Chemicophysics processing treatment.





## Volume-rate Garbage Disposal System

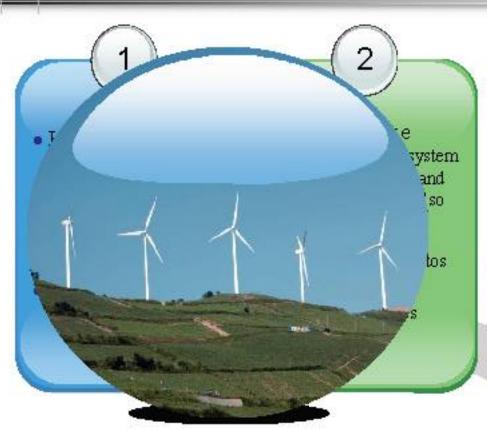






## Energy Problems





 Wind Farm Established

- Maximun wind velocity (Yearly average 8.3m/sec)
- 8 wind mills (5 operated currently) 6.8MW
- Project expenses (1.36 million \$)
- Revenue (0.4 million \$) /2006

- Private Investment 10 windmills(20MW)
- Investment from an outside fund
  - 54 windmills (80Mw)







Mine Water Purifying Method

Operating
Micro-biological,
Chemical treatment.

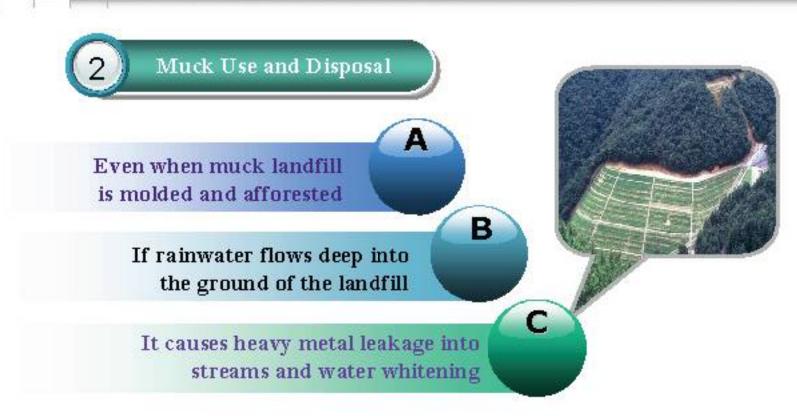


High concentrated slack lime sludge return engineering.

Requesting Assistance: Purifying Methods to meet Taebaek's needs



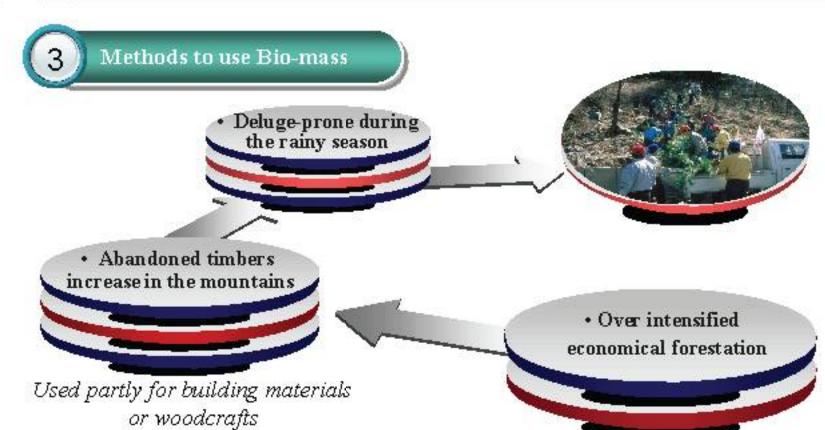




Requesting Assistance: Introducing excellent cases from WWCAM member cities which have abandoned coal mining stations



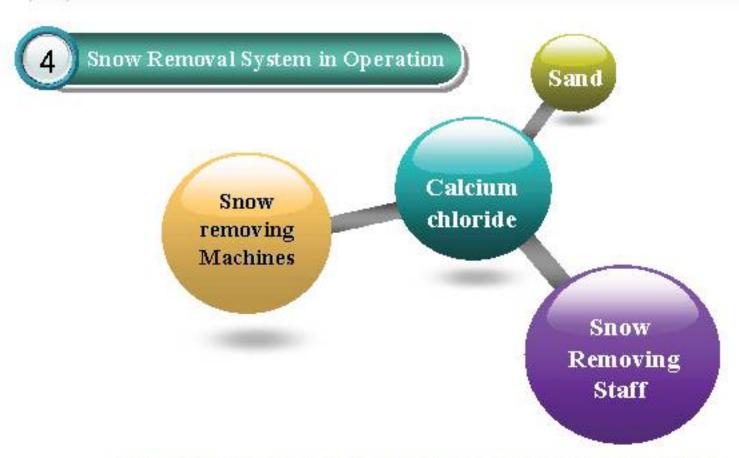




Requesting Assistance: Introducing cities which use bio-mass fuel







Requesting Assistance: Excellent cases on snow removal from WWCAM Members Cities



## Conclusion

Purification Measure





