



เทศบาลนครราชสีมา  
Nakhonratchasima Municipality

## Challenges in the Urban Nexus Project



# Overview of the Nexus projects in Korat

## Technical assistance

- Decreased energy consumption for water supply system and wastewater treatment system by changing pumps together with improving operation and maintenance of pumps
- Increased energy generation of organic waste composting system by changing bag opener to shredder and improving operation of composting



# Overview of the Nexus projects in Korat

## Capacity building

- Provided information for decision makers on integrated resources management
- Organized training and workshops for technical officers on operation and maintenance system





# Key challenges in terms of finance mechanisms

- **How to find budget to support the following NEXUS plans: (Long-term investment )**
  - Upgrade solid waste disposal sites
  - Change more pumps for improving water supply system and sewerage system
  - Replace instruments for organic waste composting system
- **How to increase financial supports and generate income from the Nexus projects: (Sustainability)**
  - Inadequate incentives for the Nexus projects related to waste disposal (e.g., biogas, fertilizer, plastic waste recycle)
  - Problems with carbon credits
  - Absence of promotions for public and private partnership
  - Lack of capacity and authority to revise tariffs for water supply and set a new tariff for sewerage



# Key challenges in terms of mandates

- **Need the national government to set up national agendas for the following issues:**
  - Mandate for sewerage tariffs
  - Regulations on sustainable solid waste management –“sorting and disposal”
  - Promotions and incentives for converting waste to electricity
  - Promotions and incentives for private and public co-investment





# Other challenges

- Cooperation between local governments on waste sorting agreement and implementation
- Improvement of piping system for water supply to reduce water loss
- Establishment of water shortage management plan





# Summary and way forward



## Next steps:

- Improvement of solid waste disposal sites to enhance capacity of solid waste management
- Improvement of water supply production and distribution system to save energy and water and increase capacity of irrigation
- Adjustment of tariff collections to meet investment and maintenance cost
- Incentives for waste to energy and waste recycling projects
- Subsidies from national level for Nexus pilot projects



Thank you