

**“BOS”**  
**BLUE OCEAN STRATEGY**

**For**  
**Water-Energy-Waste Management**  
**“NET-ZERO VISION”**

**By**  
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# Business as usual



Need to overcome the physical and cost as well as social and environmental limitations of providing the infrastructure for the services indefinitely

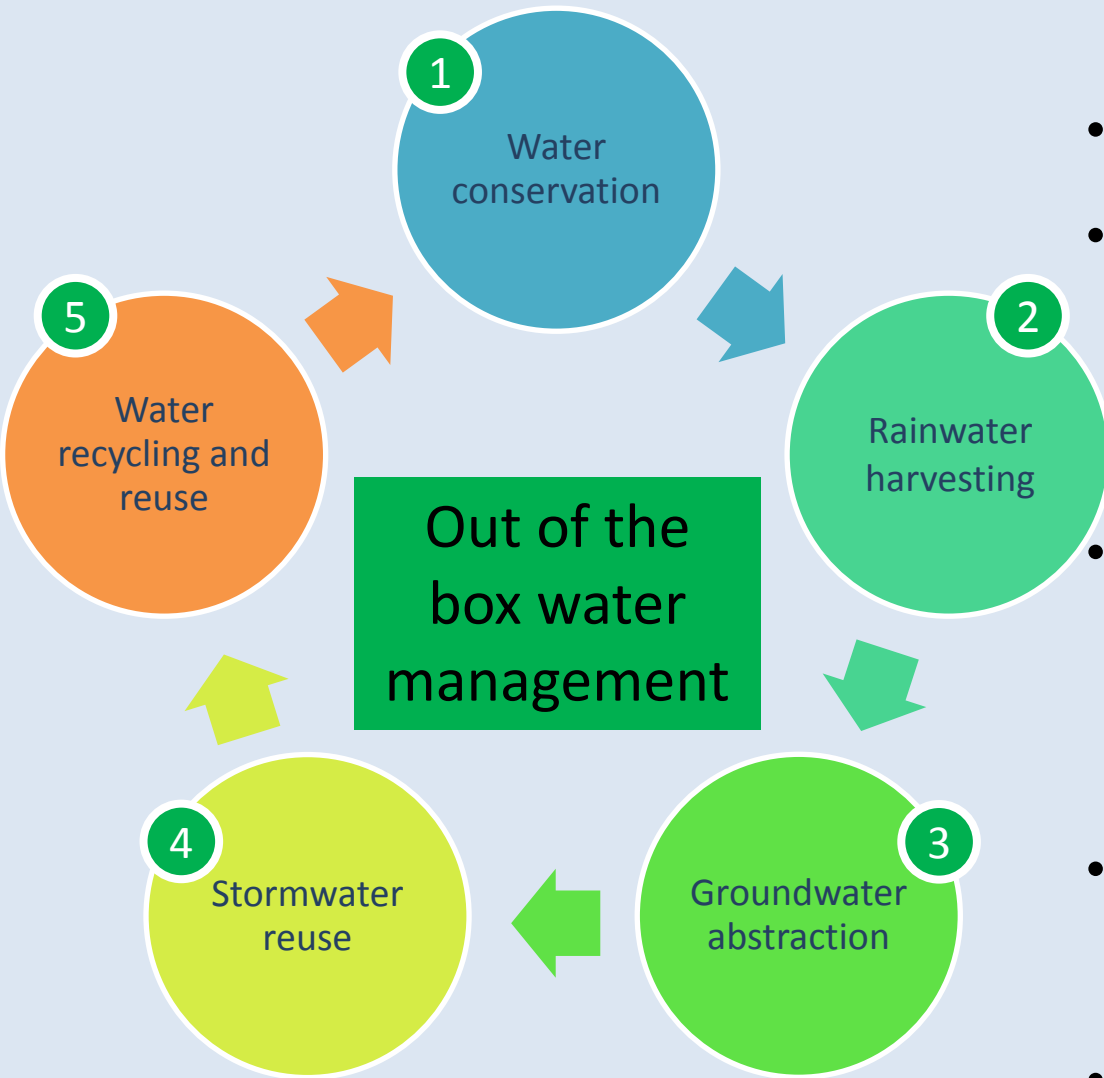


# “BOS” and Net Zero Vision



- Water neutral development
- Energy neutral development
  - Waste as a resource

# How to achieve Net Zero Water development?



- reduce water use
- capture all rainwater, manages all stormwater runoff, and re-uses all wastewater
- area does not require additional water despite new development
- paradigm shift from “draining” to “retaining” water
- mitigate flooding in downstream areas

# Net Zero Water Benefits



- Security of water supply
- Non-interruption in water supply and reduce risk of tainted water



- Lower water bills
- Raw water for non-potable purposes

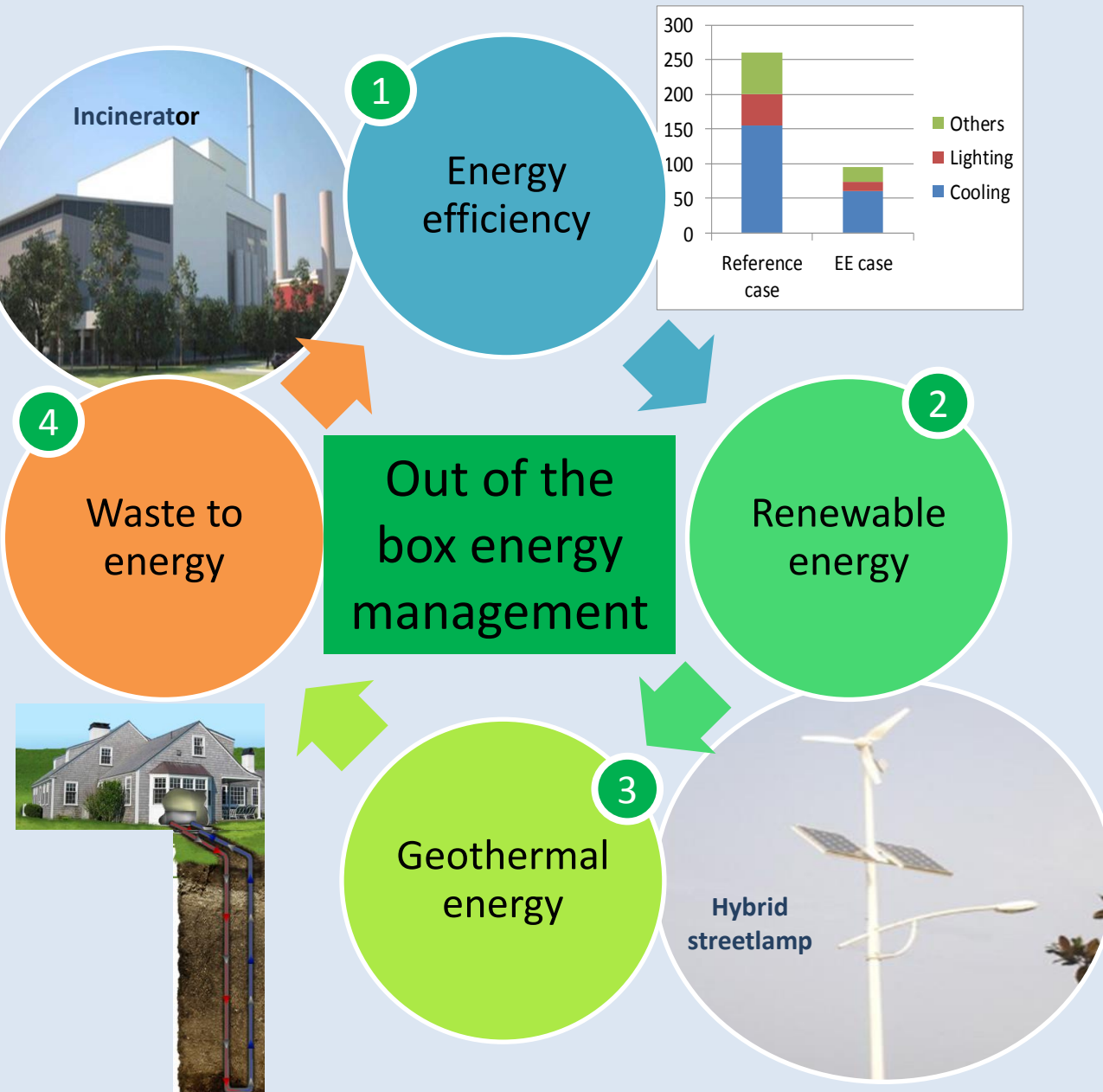


- Environmental conservation
- Reduce water storages, pollution and transfers



- Save government spending
- Reduce allocations for water related expenditures

# How to achieve Net Zero Energy development?



- maximise energy use
- use of solar, wind, wave and ocean for energy production
- development of geothermal energy
- convert liquid and solid waste to energy
- mitigate production of greenhouse gases

# Net Zero Energy Benefits



- Security of energy supply



- Lower energy bills

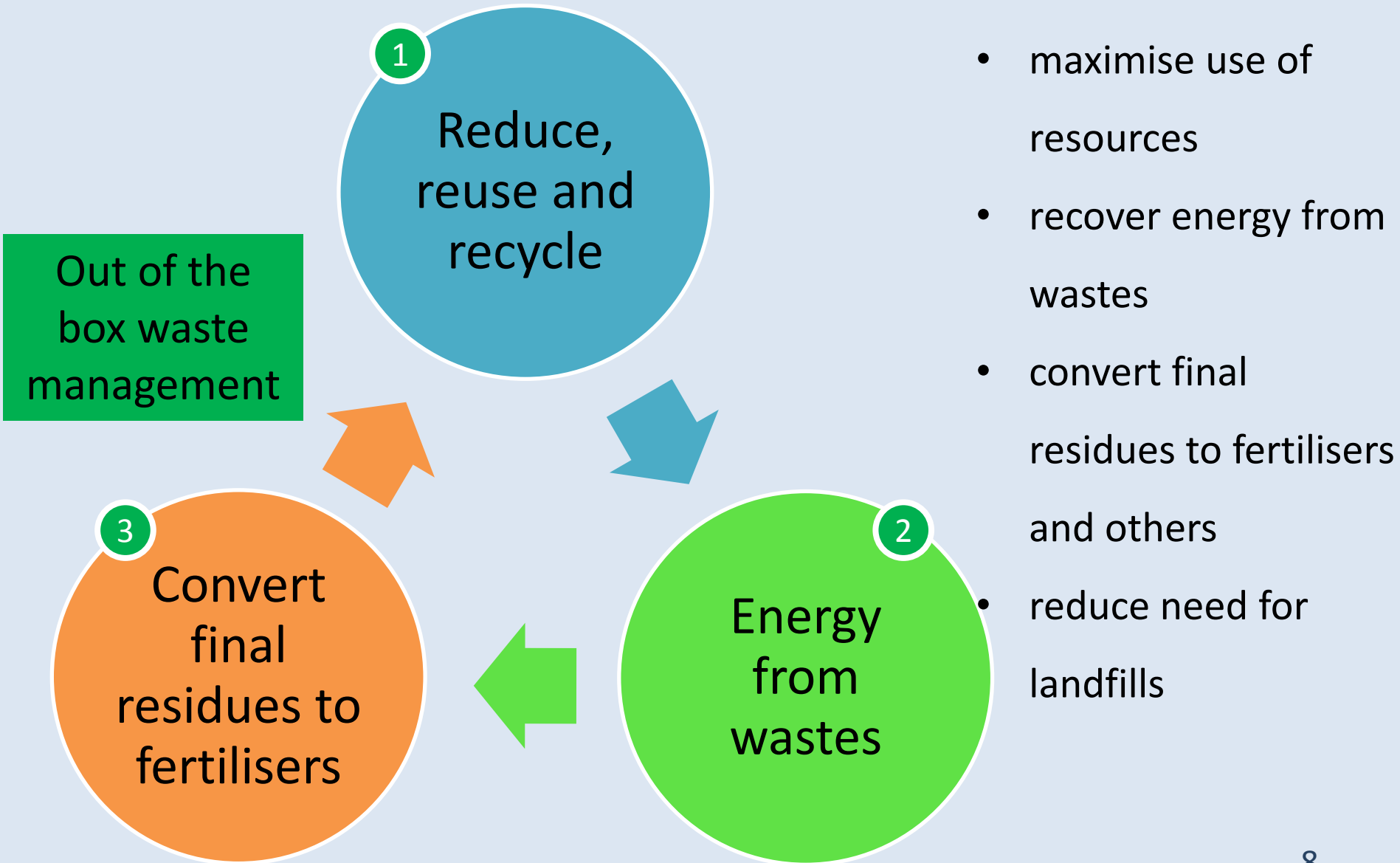


- Environmental conservation
- Reduce water storages
- Reduce global warming



- Save government spending

# How to achieve Net Zero Waste management?





# Net Zero Waste Benefits



- Security of natural resources



- Lower consumer spending



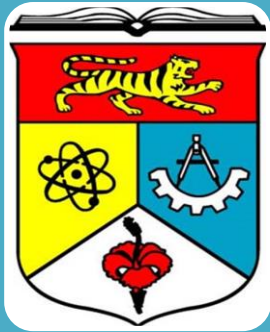
- Environmental conservation
- Reduce requirement for landfills
- Healthy living conditions



- Save government spending

# Proposal for pilot schemes for Net Zero Vision

Government to take the lead



Retrofitting (brown field)

- Existing IPTA (UKM)



Greenfield

- New IPTA (UiTM)