



# Special session

## Multiple benefits of energy efficiency

---

Municipal and Utility Services: Special Session

John Dulac

New Delhi 13 December 2018

 #energyefficientworld

1. **Where to start:** Energy use in municipalities
2. **Where to start:** Energy efficiency potential in municipalities
3. **Toolkit:** Energy-efficient municipal planning
4. **Toolkit:** Energy-efficient technologies

**Where do I get help?** IEA's Technology Collaboration Programmes

5. **What are the steps:** Implementing energy efficiency programmes – target setting
6. **What are the steps :** Implementing energy efficiency programmes – implementation
7. **What are the steps:** Enabling public energy efficiency investment
8. **What are the steps:** Enabling private energy efficiency investment

**Special session:** Multiple benefits of energy efficiency for municipalities

9. **Did it work:** Evaluation and energy efficiency indicators

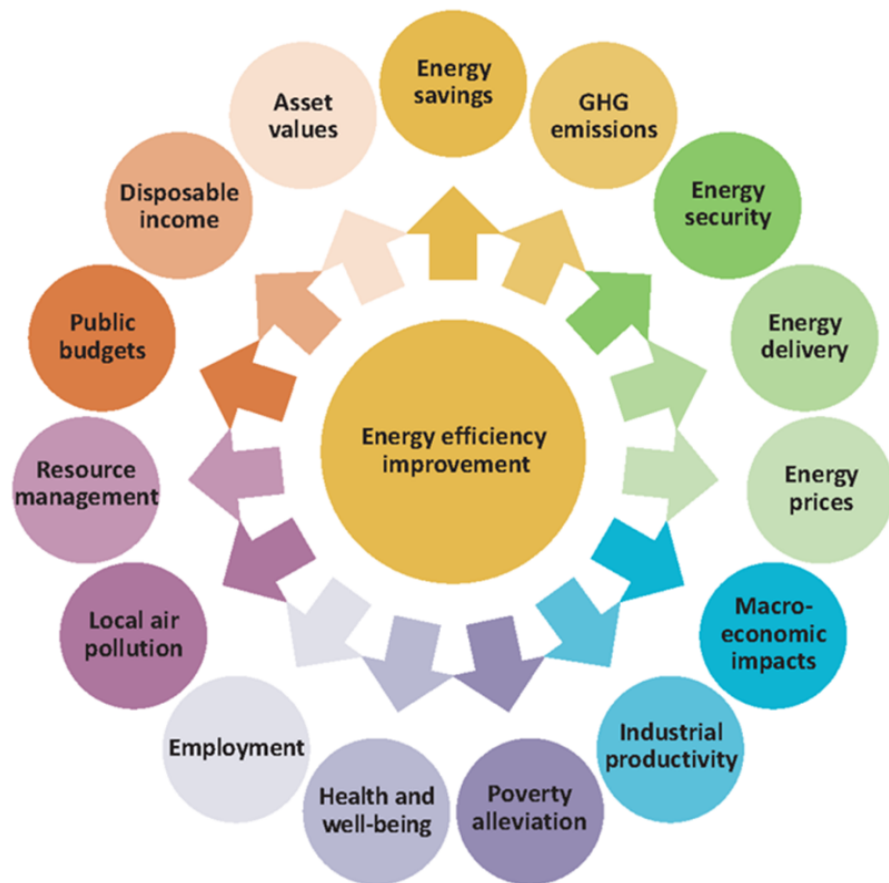
**Special session:** International and regional initiatives that can help

10. **Energy Efficiency Quiz:** Understanding energy efficiency in municipal services & utilities

## **Special session:** Multiple benefits of energy efficiency for municipalities

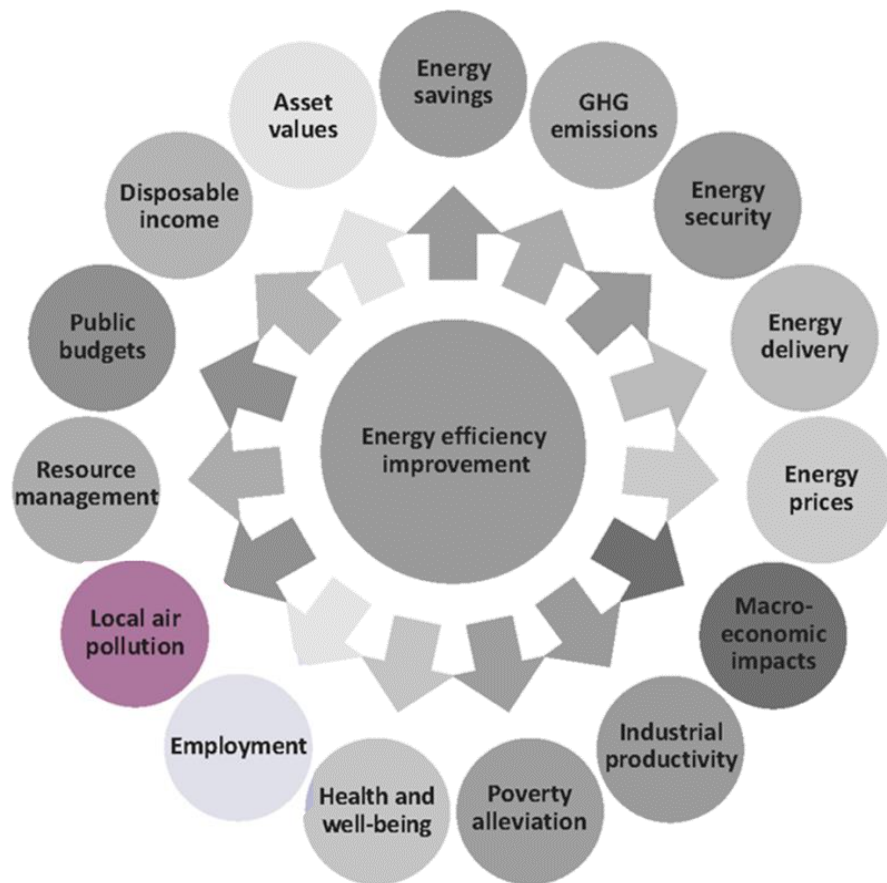
**Trainer(s):** John Dulac

**Purpose:** To teach the multiple benefits of energy efficiency specific to municipalities and the importance of highlighting them.



## IEA's Multiple Benefits Diagram

[https://www.iea.org/publications/freepublications/publication/Multiple\\_Benefits\\_of\\_Energy\\_Efficiency.pdf](https://www.iea.org/publications/freepublications/publication/Multiple_Benefits_of_Energy_Efficiency.pdf)

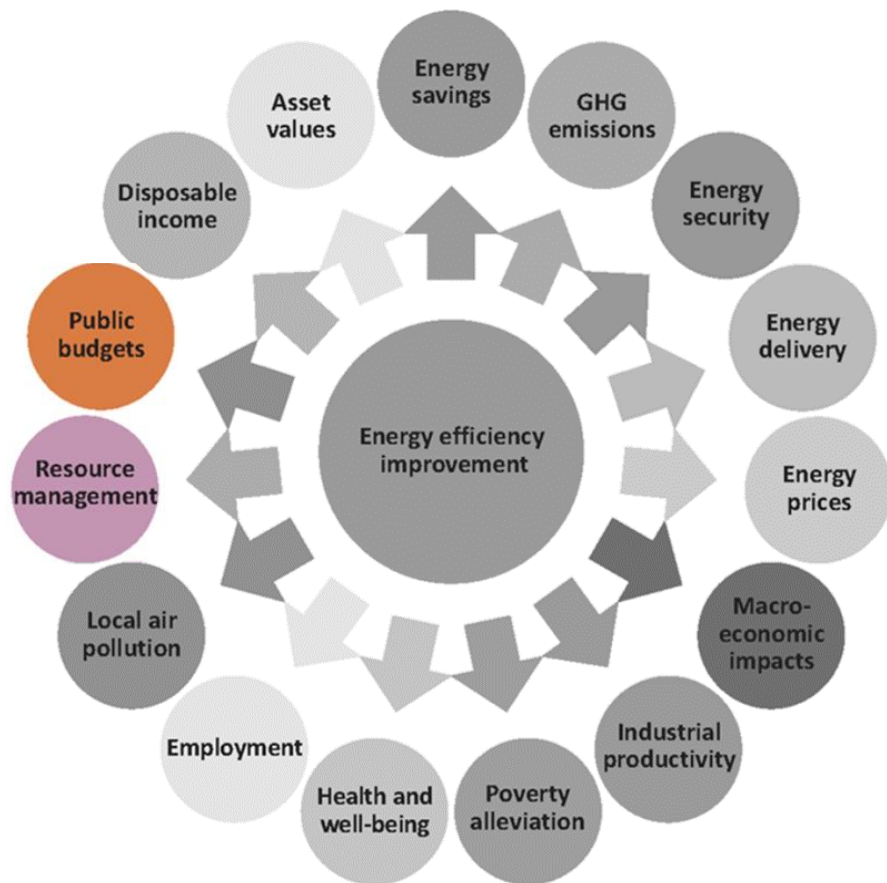


## • Employment

- Retrofit work as a result of **building codes**
- Construction work as a result of **infrastructure improvements** (e.g. repairing leakage, public transport upgrades)

## • Local air pollution

- Cleaner urban emissions due to transport policies

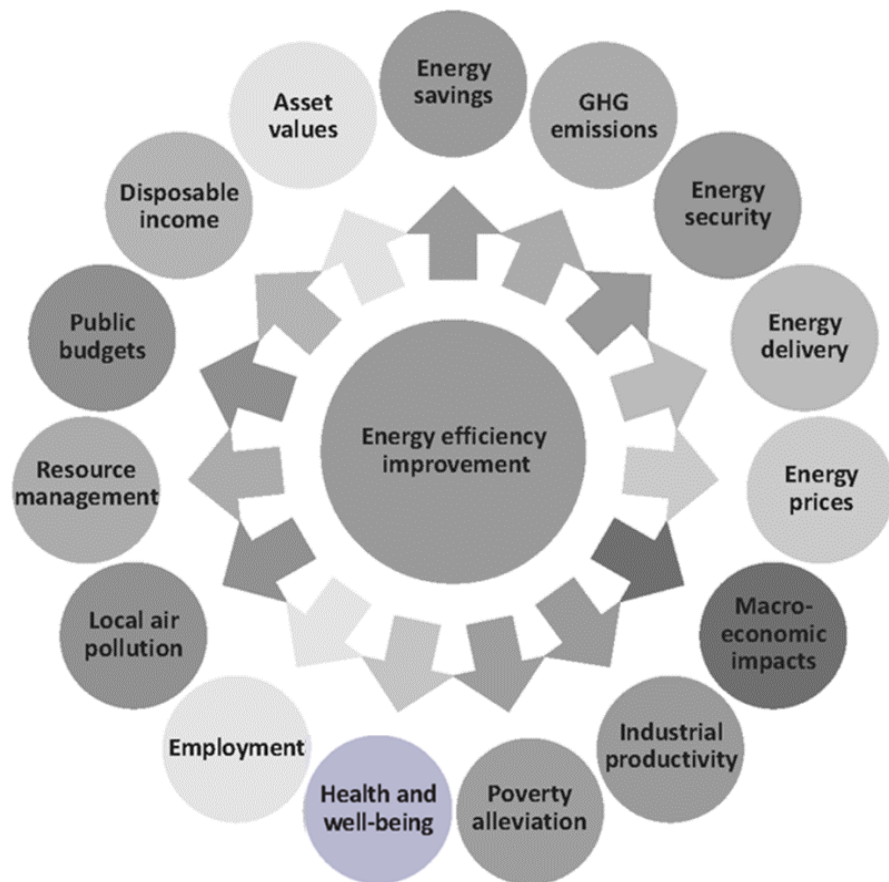


- **Public budgets**

- Energy savings from lighting, municipal buildings, and water supply help public budgets and provide **more spending for social services**

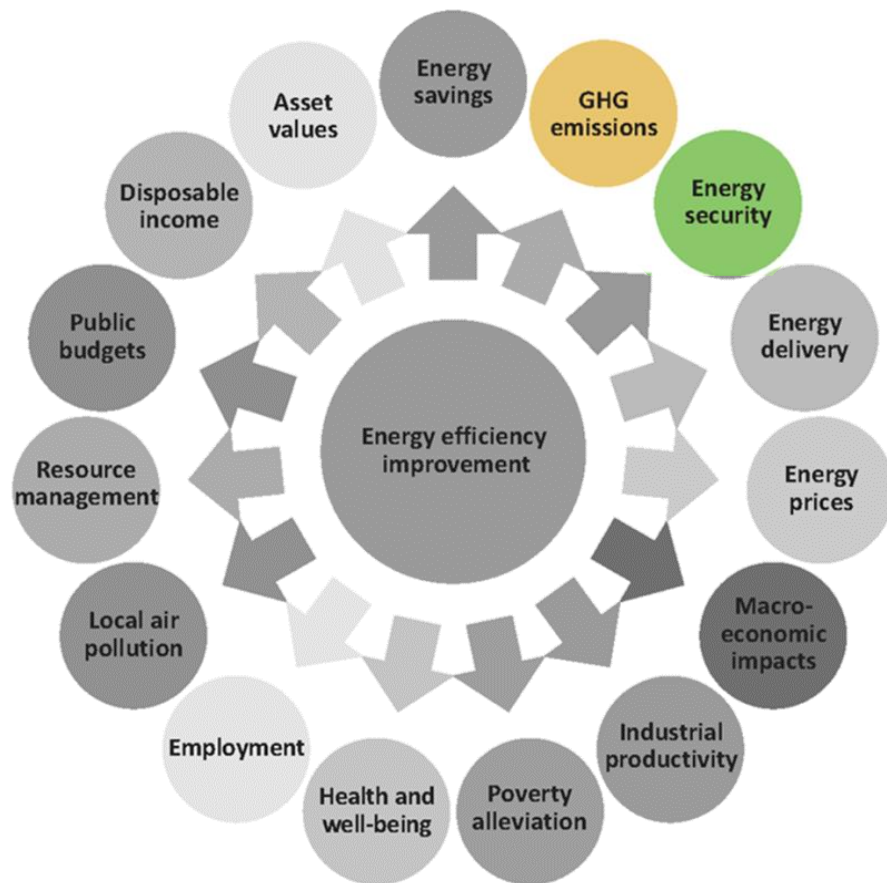
- **Resource management**

- Reducing leakage helps conserve water especially during droughts



## • Health and well-being

- Fulfilling clean water supply due to **less costs of water delivery**
- Increase night-time security as **higher lighting output** can be done with lower energy costs
- Lower traffic-related deaths with **higher public transport share and transit-oriented development**



- **Energy security**

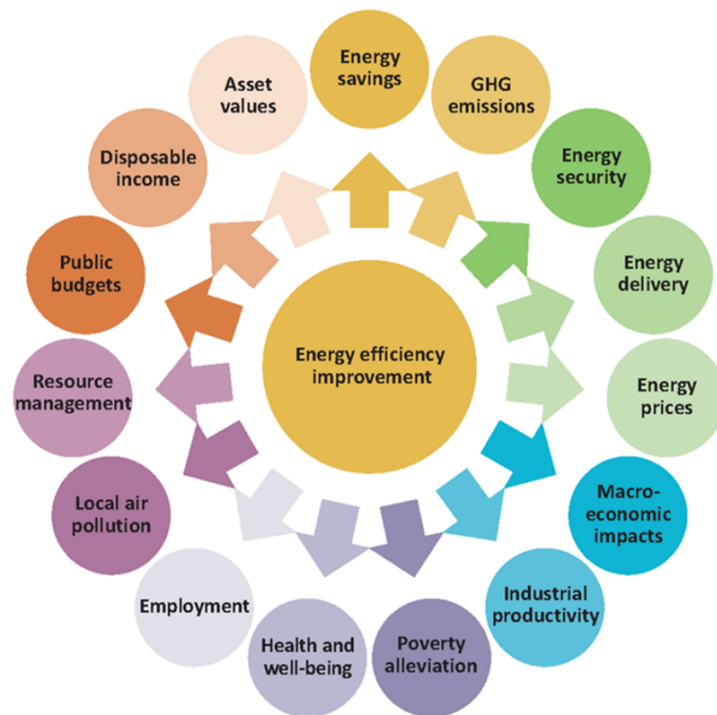
- Waste to energy projects increase energy security
- More **electrified public transport** reduce reliance on oil imports

- **GHG emissions**

- **Landfill management** reduces methane emissions
- Lower energy consumption mean lower emissions



What are other multiple benefits you can think about?





[www.iea.org](http://www.iea.org)

 #energyefficientworld