

Cities at the Front of the Climate Change Battlefield



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Global Trends

Demographics



Urbanization



Rise of Middle-Class



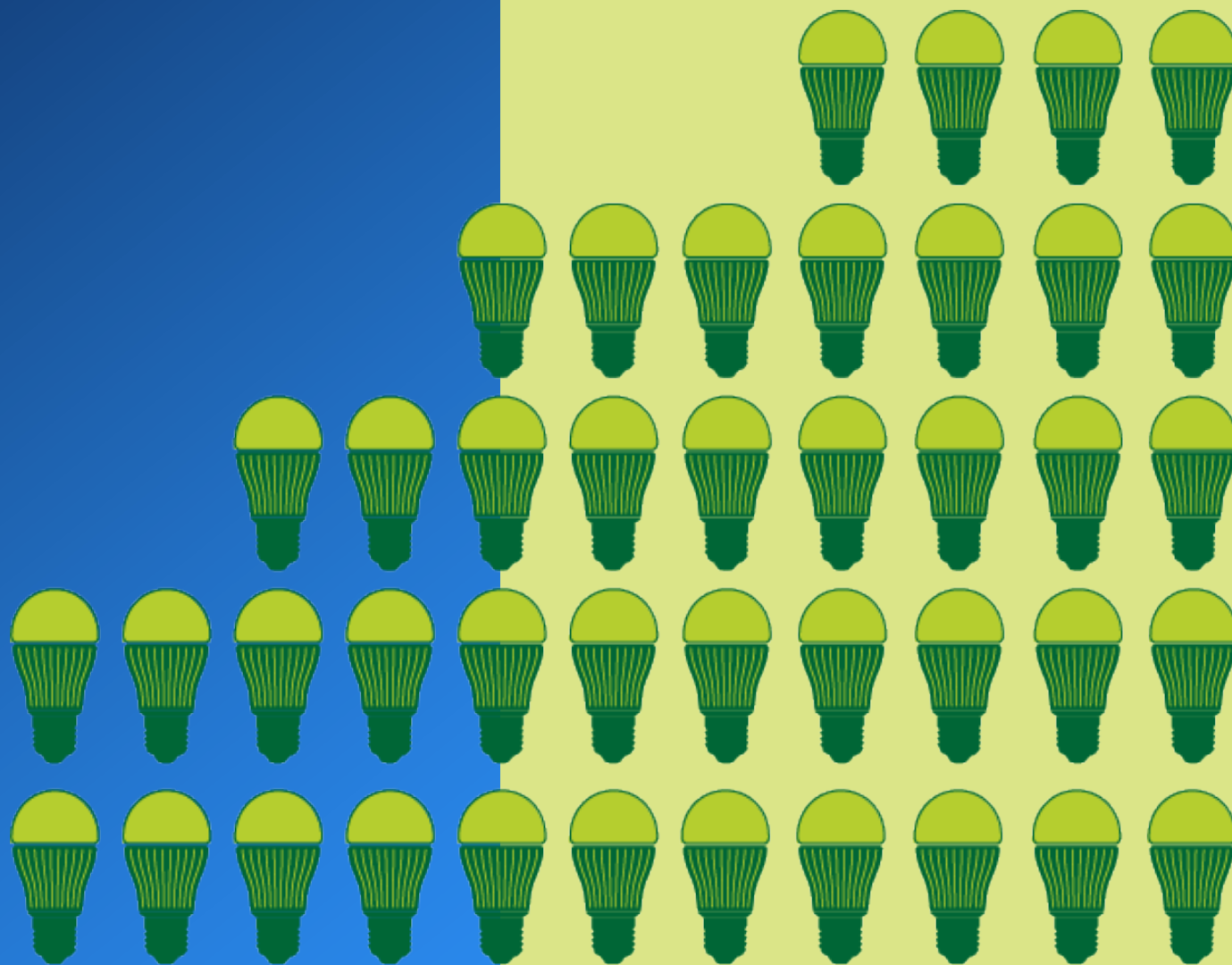
Lighting currently consumes 15% of the world's electricity

Global trends

35%

increase in
Light Points

in 2030 compared to
2006



Connect to leverage LED benefits

50-70% energy savings with LED



Up to 80% savings when coupled with smart controls





Lighting accounts for 15 % of
global electricity consumption

300 million street lights globally –
75 % with outdated technology

With conventional technologies,
lighting comprises around 50% of
local governments' energy bills

LEDs provide:

- Immediate energy savings of 50 – 80 %
- Higher quality light
- Longer lifetime and reduced maintenance



energy efficiency



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Benefits beyond Efficiency



- Safer roads and streets



- More productive offices



- More livable cities and attractive public spaces



- More patient-friendly hospitals

Case Study: Melaka, Indonesia



Transforming Melaka
into a smart city through
energy efficient LED lighting solutions

VIDEO

Government Policy Frameworks

- Accelerate buildings renovation rate from 1.2% - 3%
- All new and existing buildings LED by 2030
- Performance based procurement



If the entire world switched to LED by 2030 ...



Shut down 1250
power plants



Avoid 1400 million tons
in carbon emissions



Lower energy bills
by €272bn

A close-up photograph of a man and a woman. The man is on the left, looking towards the woman on the right. He has his hand near his face, and both appear to be in a state of surprise or joy. The woman is smiling broadly, showing her teeth. The background is a plain, light-colored wall.

3 Take-Aways:

Connected LED systems
proven & ready to scale

Triple benefits for cities

Time to invest in smart
lighting infrastructure
is... NOW!



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Innovative Financing Mechanisms

for lighting



Case Study: Semarang, Indonesia



Transforming Semarang
into a smart city