

# *SMART GREEN PLANET*



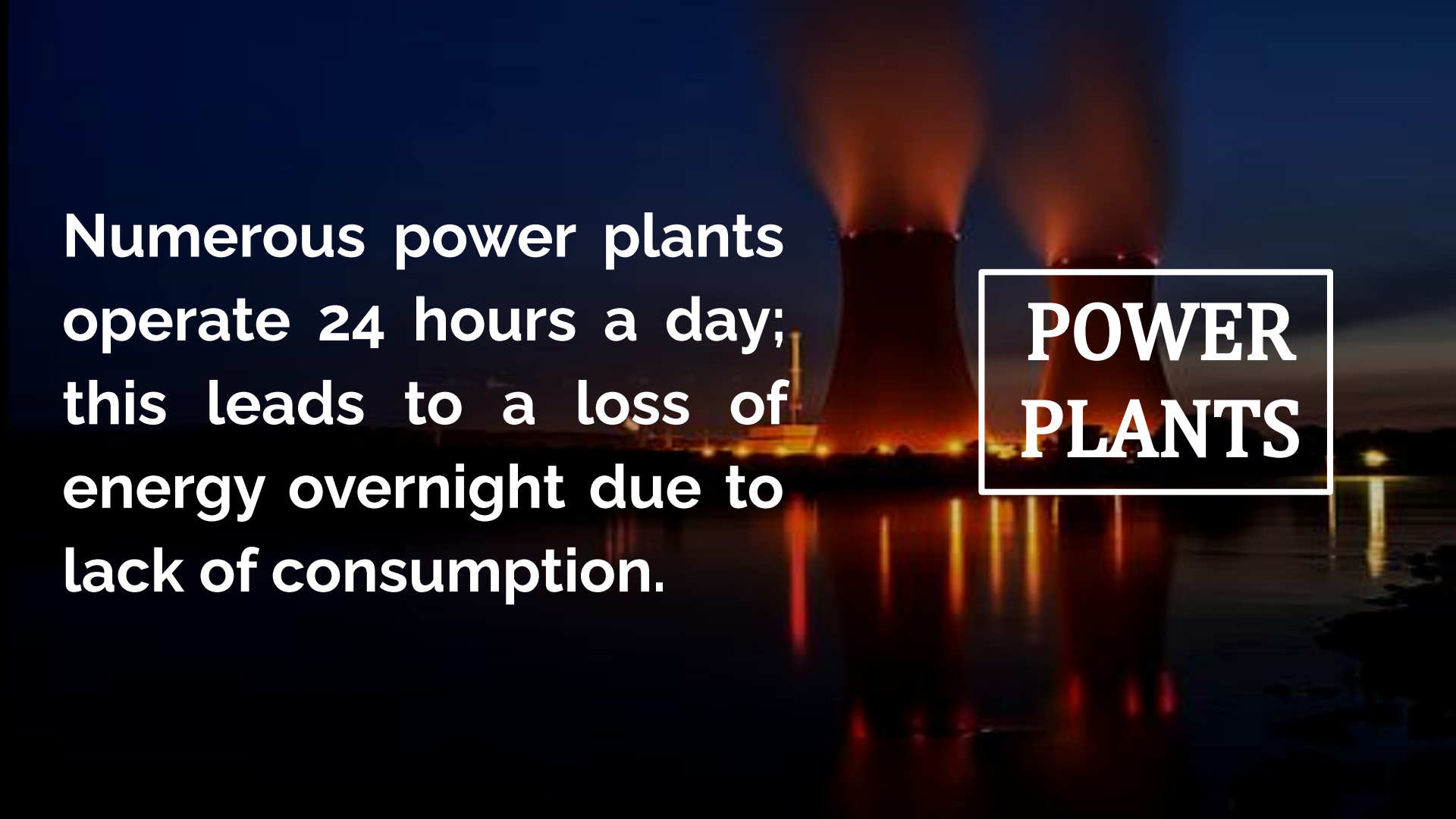
LAS TABLAS VALVERDE  
SCHOOL



# *ENERGY LOSS*

A photograph of a power plant with several cooling towers and smokestacks emitting white steam against a cloudy sky. The scene is captured from a low angle, showing the industrial structures in the foreground and the dramatic, overcast sky above. The cooling towers are large, cylindrical structures with a flared top, and the smokestacks are tall, thin chimneys. The overall atmosphere is one of industrial activity and environmental impact.

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**Numerous power plants  
operate 24 hours a day;  
this leads to a loss of  
energy overnight due to  
lack of consumption.**

**POWER  
PLANTS**

These power plants release gasses that contain CO<sub>2</sub> . They cause atmospheric pollution which leads to the greenhouse effect and acid rains.

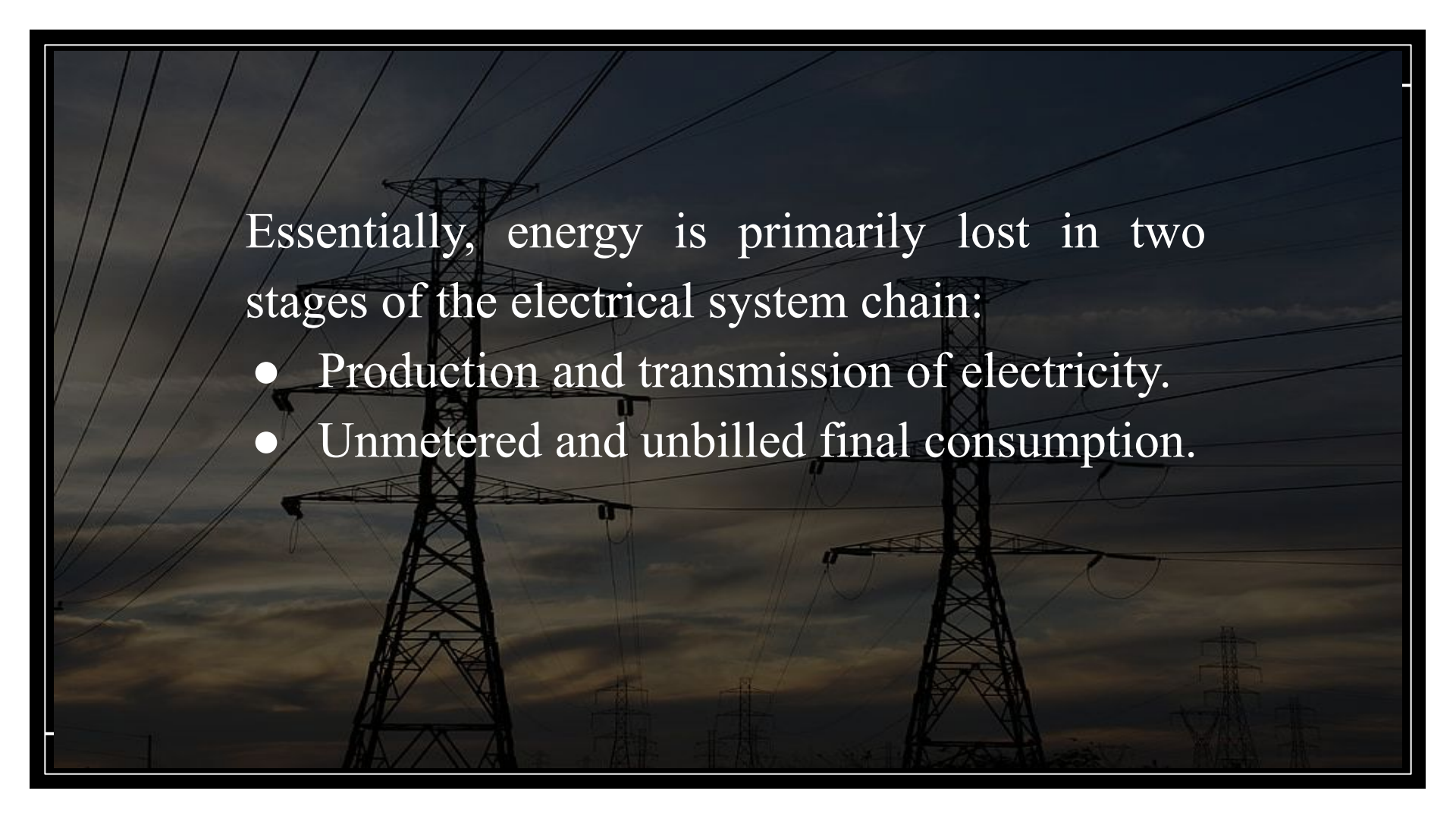


CO<sub>2</sub>

# Appliances



Devices in poor condition: if the devices we use are worn out, they can consume twice as much required energy, since they will need more time to carry out the task entrusted to them, putting the device constantly under pressure.

The background of the slide features a dark, atmospheric photograph of several high-voltage electrical transmission towers. The towers are silhouetted against a sky filled with heavy, dark clouds, suggesting a dusk or dawn setting. The perspective is from a low angle, looking up at the towers, which are connected by a network of power lines stretching across the frame.

Essentially, energy is primarily lost in two stages of the electrical system chain:

- Production and transmission of electricity.
- Unmetered and unbilled final consumption.



*What percentage of energy is lost?*

The total loss of energy varies in a range between

**8 - 15%**

## ***Solution***

A method to store energy that is not needed.

This method consists of storing the energy excess in a battery so it can be used whenever it is needed.



This batteries would be placed in a battery station which would be connected to the electric wires and take in 8 - 15% of the energy