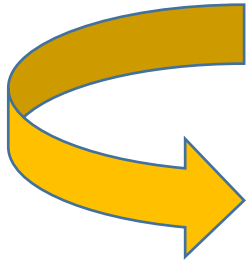
Cambodia Energy Efficiency Competition

WHAT IS THE CEE COMP?



Universities
90-DAY CHALLENGE

WHY CEE COMP is so RELEVANT for ENERGY & CLIMATE CHANGE in Cambodia ?

WHAT IS THE CEE COMP?

CEE Comp is a **not-for-profit**, **multi-year** campaign

Engage people and organisations, using **gamification** & **competition**.

Rely on simple but **cost-efficient** energy saving measures

A one-year competition between private buildings comparing their energy savings according to the evolution of their electricity bill

A 90-day challenge between public buildings to raise awareness on energy efficiency in ministries and universities

Sensitization of the general public to energy efficiency through events and social media communication

C.E.E comp

Organised by sevea

With the support of CAMBODIA CLIMATE CHANGE ALLIANCE, Schneider Electric, Sverige

In partnership with (Energy)Lab, a4mt, EUROCHAM CAMBODIA, LiGER

WHAT IS THE CEE COMP?

Implemented by

With the support of

ONE-YEAR COMPETITION for PRIVATE ORGANIZATIONS

22 buildings

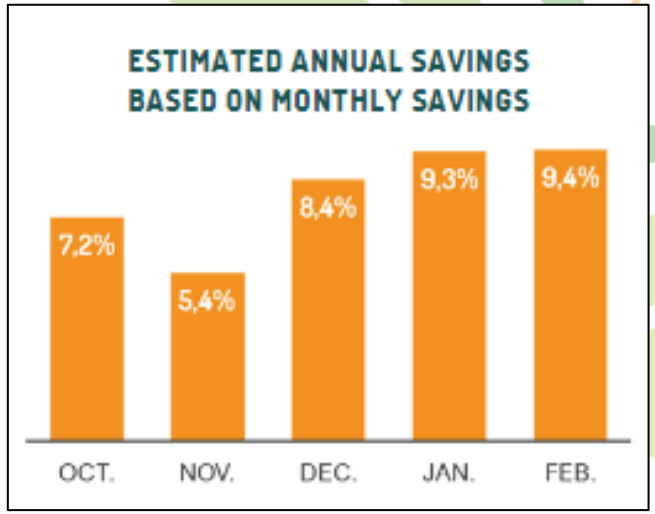
14 companies

2300+ employees

Very simple concept: saving the maximum amount of energy in 1 year by implementing small gestures, **improving the building's management** and **mobilizing its occupants.**

The energy savings are calculated based on the building's **electricity bills.**

Focus on commercial buildings.



C.E.E comp POWERED BY

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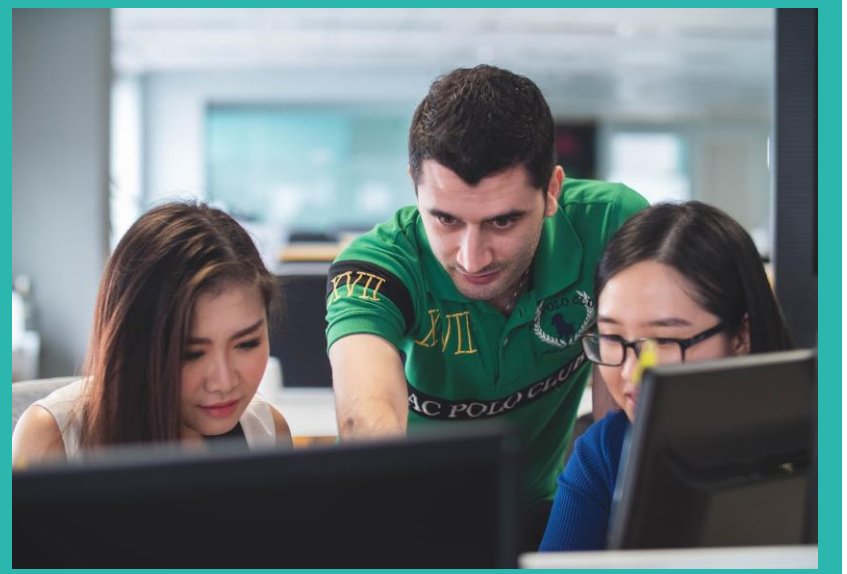
With the support of CAMBODIA CLIMATE CHANGE ALLIANCE, Schneider Electric, Sverige

In partnership with (Energy)Lab, a4mt ACTION FOR MARKET TRANSFORMATION, EUROCHAM CAMBODIA, LiGER

Universities 90-DAY CHALLENGE

A 90-day challenge to raise awareness of energy efficiency in university buildings



Learn more about the energy use of your university's buildings

Take action for the planet by implementing energy saving measures

Participate in fun contests on the theme of energy efficiency

The winning university will be the one that collects the most points!

Organised by: sevea GREENCAP

Participants:

Sponsored by: CAMBODIA CLIMATE CHANGE ALLIANCE Sverige

Co-funded by the Erasmus+ Programme of the European Union

Universities 90-DAY CHALLENGE

Implemented by

With the support of

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Universities 90-DAY CHALLENGE

Started on May 23

National University of Battambang

National University of Management

Institute of Technology of Cambodia

Royal University of Law and Economics

Royal University of Agriculture

Royal University of Fine Arts

WHAT WE EXPECT

Data collection , surveys, action plan and implementation of measures

THEMATIC CONTEST

ENERGY DAY

Games / stands
Rewards

MAY 23

AUG 19

Challenge starts

POSTER CONTEST

WHY CEE COMP IS SO RELEVANT?

ENERGY & CLIMATE CHANGE IN CAMBODIA

C.E.E comp

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CAMBODIA CLIMATE CHANGE ALLIANCE

Sverige

Schneider Electric

In partnership with

(Energy)Lab

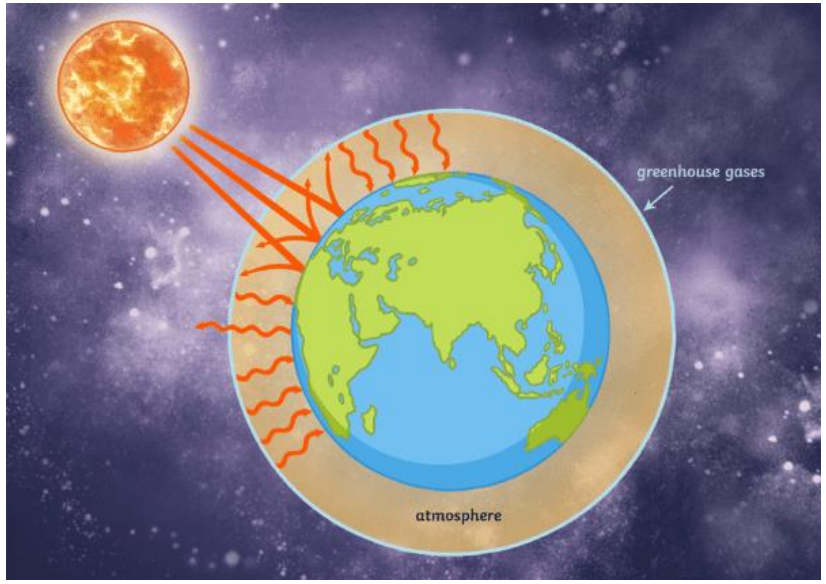
a4mt

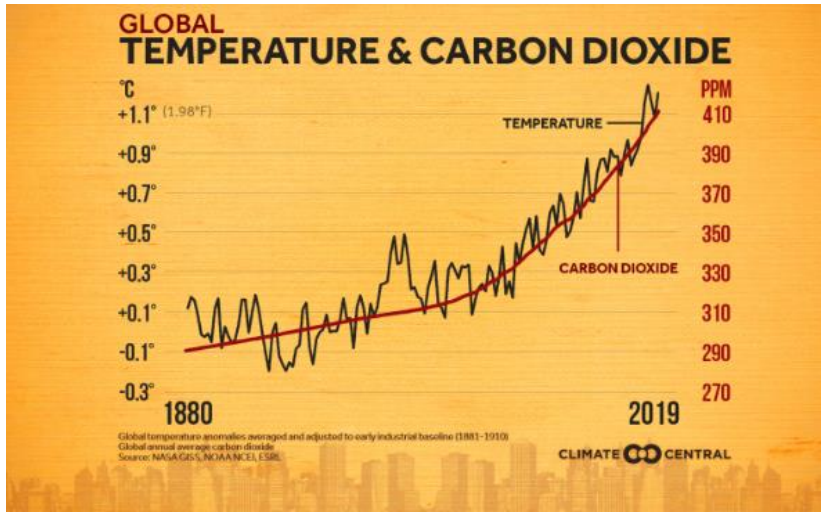
EUROCHAM CAMBODIA

LiGER

What is CLIMATE CHANGE ?

- refers to long-term shifts in temperatures and weather patterns.
- these shifts may be natural, such as through variations in the solar cycle. But since the 1800s, human activities have been the main driver of climate change, primarily due to burning fossil fuels like coal, oil and gas.
- burning fossil fuels generates greenhouse gas emissions that act like a blanket wrapped around the Earth, trapping the sun's heat and raising temperatures.





CONSEQUENCES OF CLIMATE CHANGE IN CAMBODIA

Increased incidence of extreme heat
Longer period of drought

More frequent tropical storms

Rising sea levels and saline intrusion of key freshwater resources

Agriculture and Food Security

Reduced crop yields
Reduced agricultural lands
Decreased food security

Water Resources

Decreased water quality for drinking
Limited freshwater availability
Unpredictable changes in water flow

Human Health

Increased heat stress
Reduced water and food supply
Increased water and vector borne diseases

Fisheries and Food Security

Reduced fish production
Decreased food security
Loss of livelihoods

Ecosystems

Loss of livelihoods
Decreased food security
Habitat and biodiversity loss

Source : USAID, Climate risk profile Cambodia, 2019

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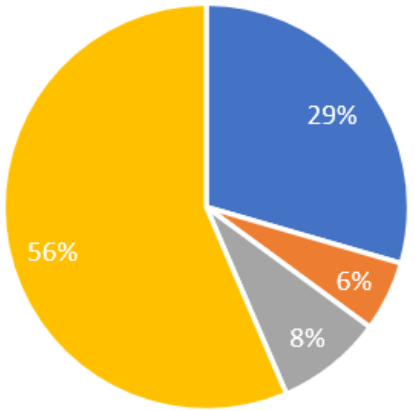
AN OVERVIEW OF CLIMATE AND ENERGY IN CAMBODIA

Cambodia is highly vulnerable to climate change

1.0-2.6 °C

Increase in temperatures very likely by 2050 in Cambodia

Main cause: deforestation and change in land use



The energy sector is responsable of ~30% of GHG in 2016 and it is estimated to increase by 22% by 2030.

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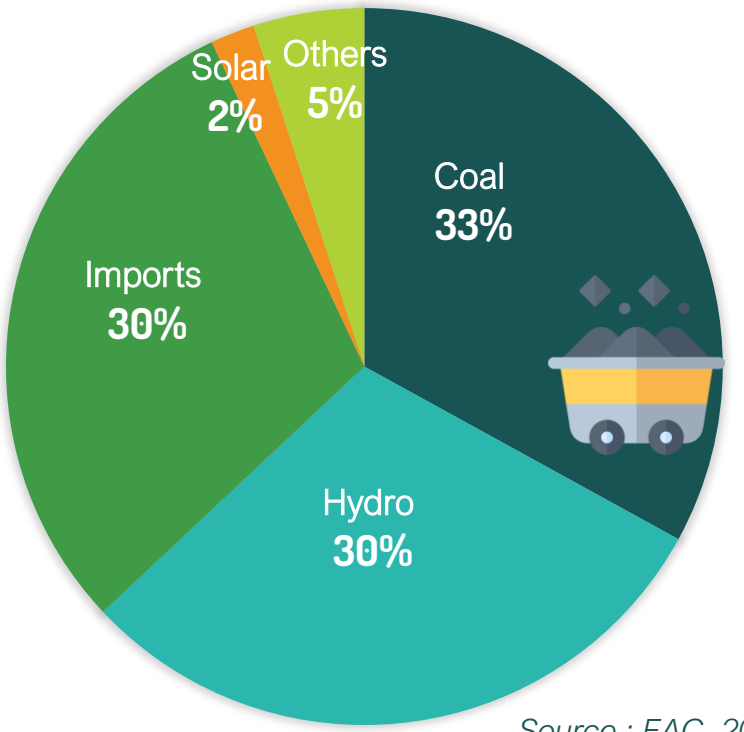
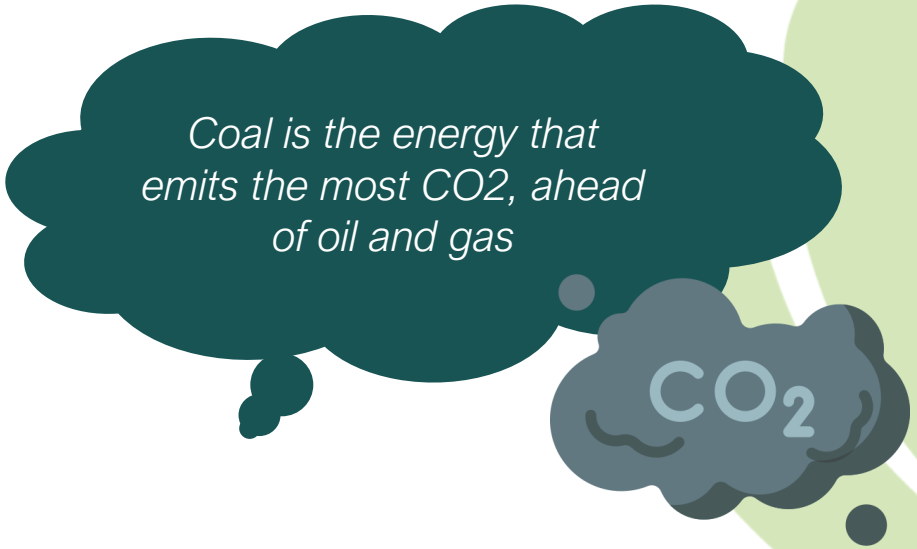
WHERE DOES THE ENERGY WE CONSUME COME FROM?

Distribution of electricity consumption in Cambodia by source, 2020



Source : EAC, 2020



ENERGY ⇆ CLIMATE CHANGE

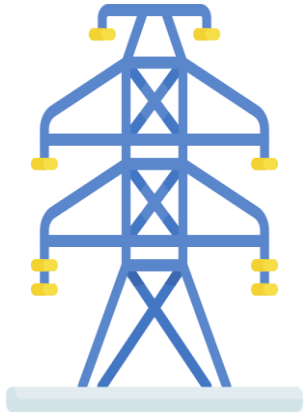
GROWTH AND DEVELOPMENT = ENERGY CONSUMPTION

Cambodia is becoming more and more populated

+ 6 million inhabitants between 1994 and 2019

Source : World Bank

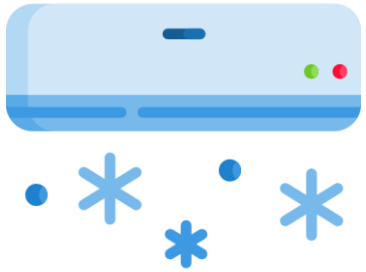
Our living conditions are improving (thankfully!)



81% of households have access to electricity
That's six times more than 15 years ago!

Source : EAC, 2020

And we are getting more and more equipped



63% of households in Phnom Penh are equipped with air conditioning (50% on average in Cambodia)

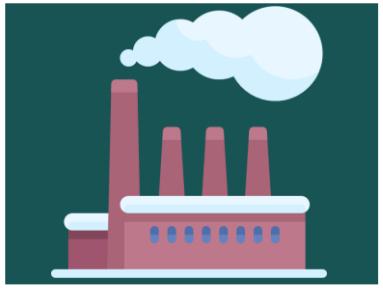
Source : UNDP Energy Efficiency Booklet, 2019

BUILDINGS ARE BECOMING MORE AND MORE ENERGY-INTENSIVE IN CAMBODIA

Final energy consumption growth rates 2010-2018 (per year)

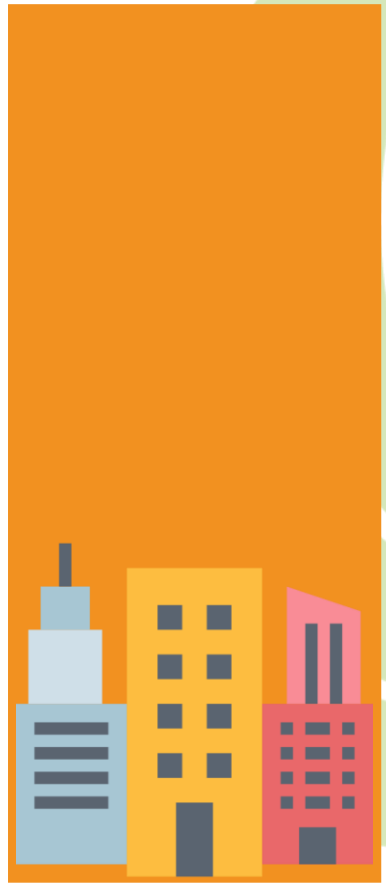
Residential
+3%

Industry
+5%



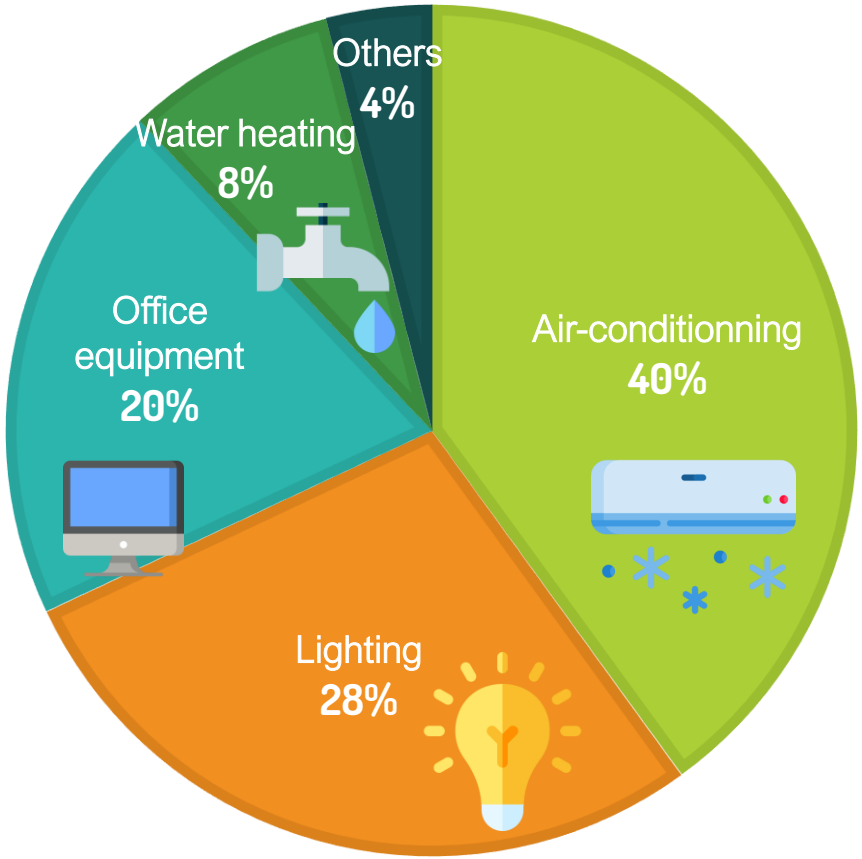
Transport
+7%

Commercial
+19%



Source : MME & ERIA, 2020

ENERGY CONSUMPTION IN COMMERCIAL BUILDINGS



Commercial buildings: office buildings, retail malls, hotels, hospitals, schools…

Source : Energy management of commercial buildings – A case study form a POET perspective of energy efficiency

CEE Comp focusing on

commercial buildings

operation management and behaviour change

awaneress raising and communication

THANK YOU !

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