



**PLASTIC FREE
CAMBODIA**



 **cirad**

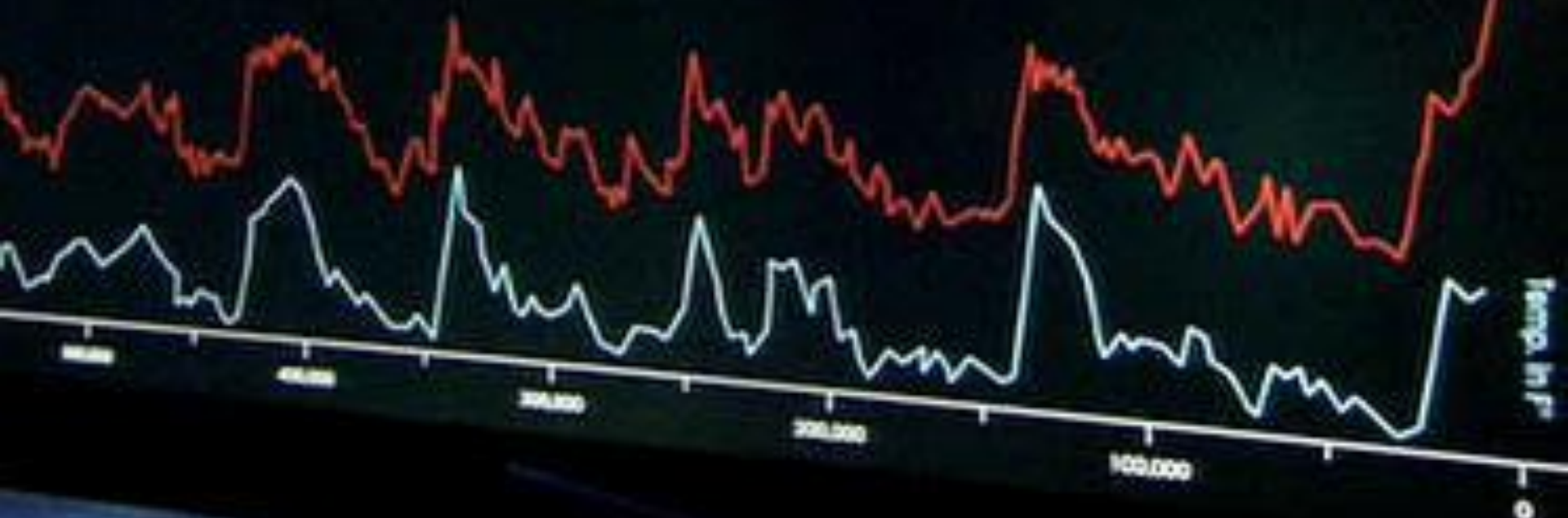


ALiSEA
Agro-ecology Learning alliance in South East Asia

Agroecology Futures Regional Forum:
What environmental impact?

CO2 Assessment

CO₂ and Temperature



Projected concentration after 20 more years of unabated fossil fuel burning

Today's CO₂ concentration

Temp. in F°


Methodology

- Application of local knowledge
- Availability of data and averages
- Consideration of venue, travel and meals
- Measurement of CO₂ savings as well as footprint
- Utilised formulas and averages from established subject matter experts



19.94t of CO2 from 110 SEA
flights

37.52t from 34 long haul flights

An aerial view of a busy city street with multiple lanes of traffic. The street is lined with lush green trees on both sides. Various vehicles, including cars, taxis, and vans, are visible on the road. The scene is captured from a high angle, showing the layout of the road and the surrounding urban environment.

Local travel:
airport transfers (SR): 0.02t
car pooling initiative Vietnam:
0.45kgs
Saved = 2.25kgs
Domestic: 3.35t
20,395 kms driven

109 litres of organic coffee (that's
650+ cups)... from Laos and
Myanmar





Food:
16% vegetarian
84% meat based
Fruit was local and organic



180 rooms
2249 kgs CO₂ per room per day
287.28 litres of water per room per
day

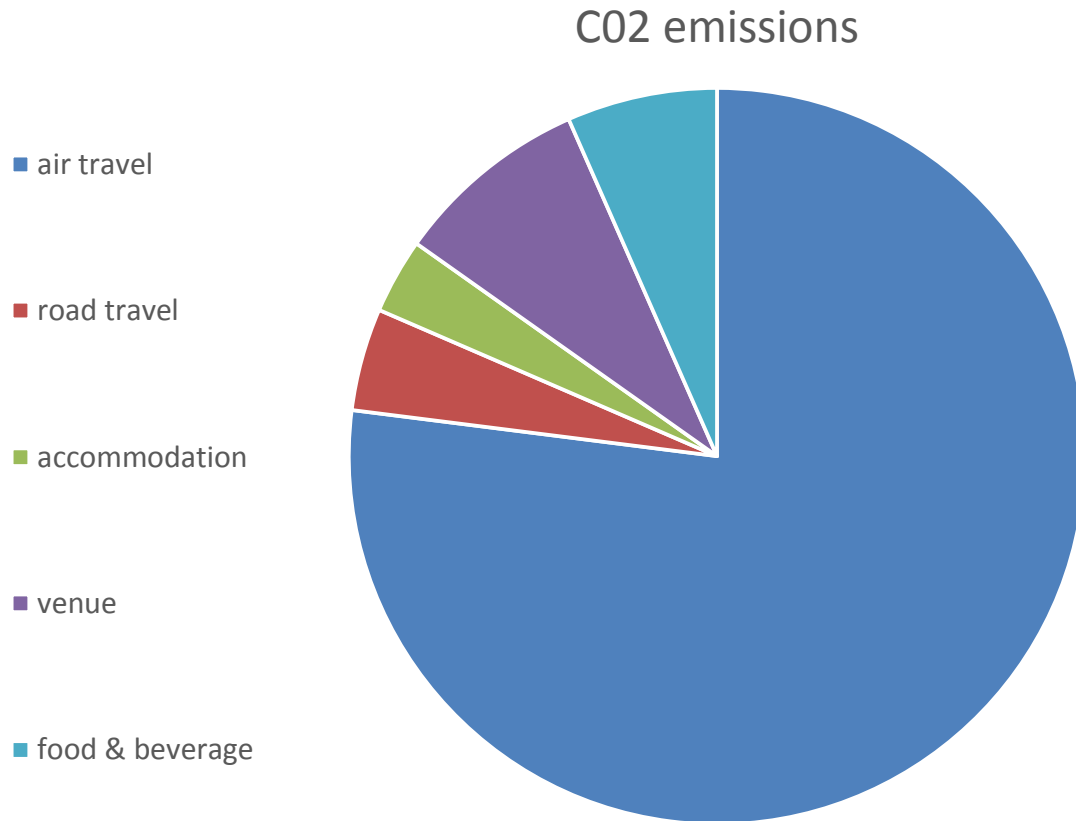




Our total carbon footprint for this 3 day
event was: approx 75 tonnes

= 299kgs per person

Carbon Footprint



Sustainability measures by organisers

- ✓ Organizing team collaborated with Plastic Free Cambodia
- ✓ Carbon footprint assessment
- ✓ Establish baseline
- ✓ Reduce plastics
- ✓ Organic local products for the coffee breaks

Sustainability measures by hotel

- ✓ Apsara Palace Resort
- ✓ ASEAN Green Hotel standard
- ✓ GEM – Green Eco-friendly Meetings package

C02 savings

Initiative	Saving
✓ Reduced amenities	
✓ No free bottled water in rooms ✓ Refill stations	✓ 1200kgs of C02
✓ Natural, local delegate packs	

C02 savings

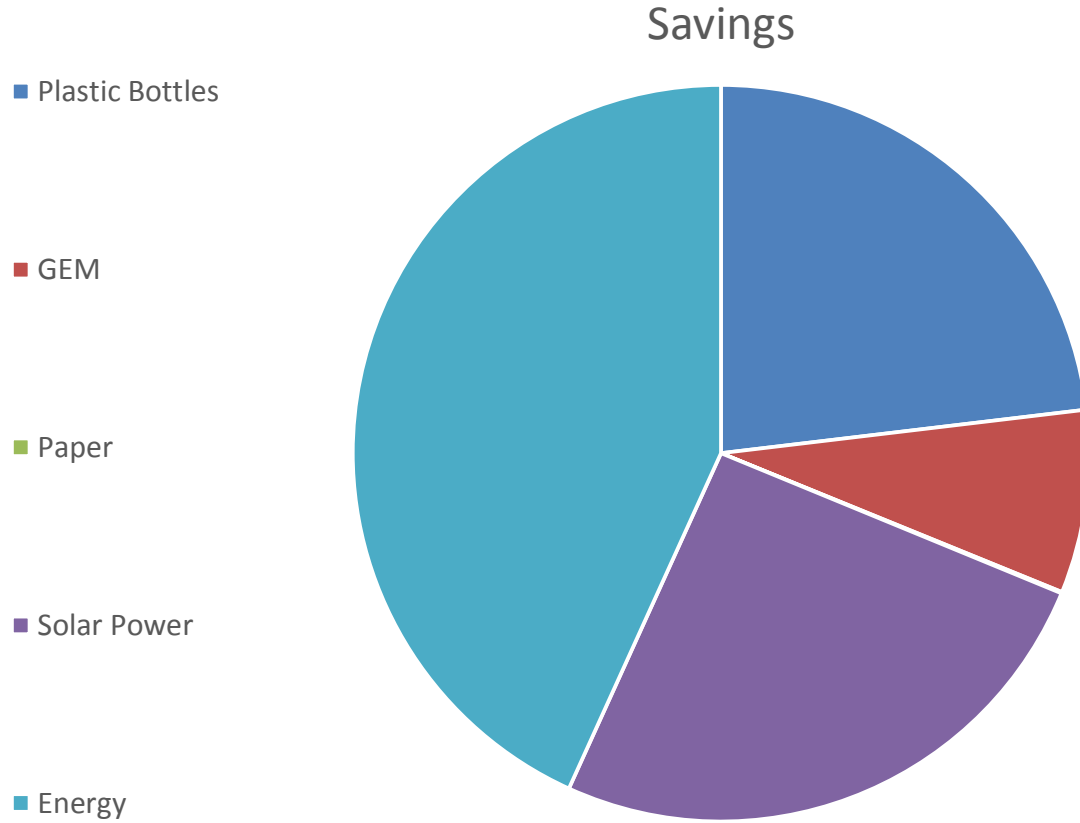
Initiative	Saving
✓ Regulated a/c temp to 24 degrees C	✓ 35.3% energy savings
✓ No daily towel or sheet washing unless requested	✓ 17% savings in combined energy, sewage, water and labour
✓ Solar hot water	✓ 396 kilowatts of power per day
✓ No welcome letter to save paper	✓ Saving 3.23kgs of C02



Our total carbon **savings** for this 3 day
event:

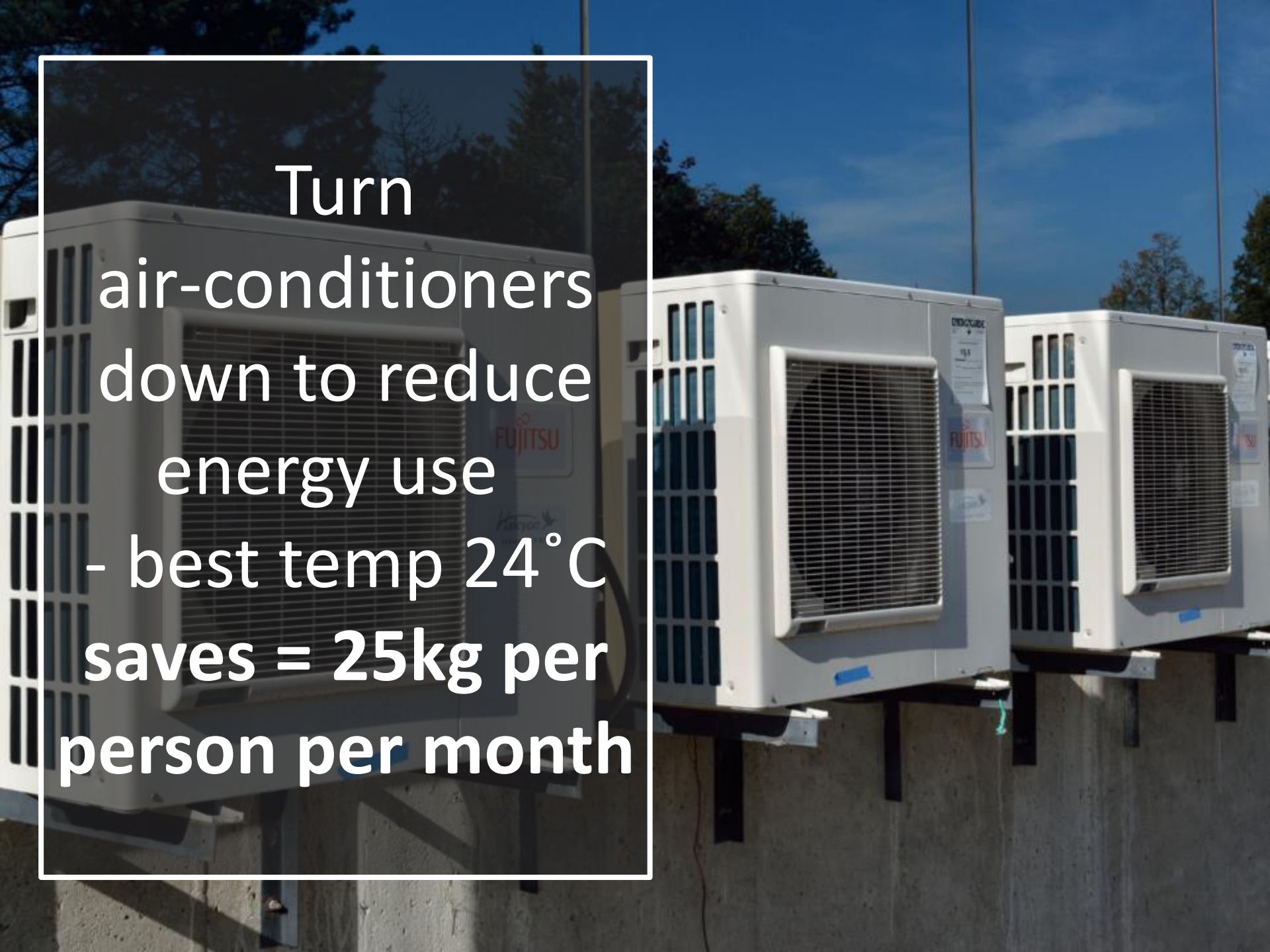
5.23 tons

Carbon Savings



Turn off lights,
electronic
equipment &
unplug
when not in use
**Saves = 5 kgs
per person per
month**



The image shows three white Fujitsu air conditioning units mounted on a light-colored wall. The units are arranged in a row, with the leftmost one being the largest and most prominent. Each unit has a large, dark-colored condenser coil on its front. The Fujitsu logo is visible on the side of each unit. The background shows a clear blue sky and some green foliage. A white text box with a black border is overlaid on the left side of the image, containing the text: "Turn air-conditioners down to reduce energy use - best temp 24°C saves = 25kg per person per month".

Turn
air-conditioners
down to reduce
energy use
- best temp 24°C
saves = 25kg per
person per month

We saved an
estimated 1200kg of
CO2 emissions

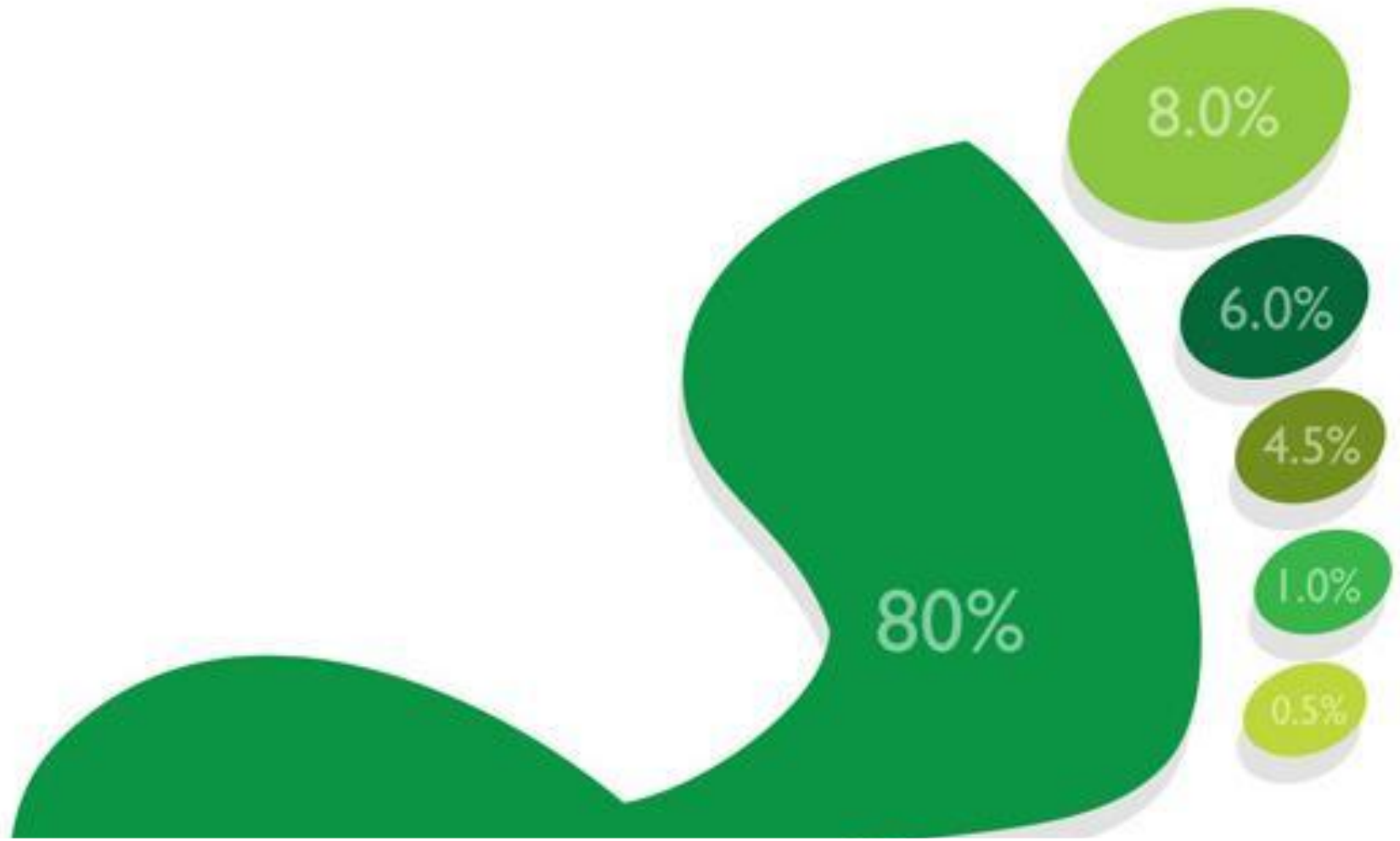
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2400 plastic bottles

-

8400L additional
water (used in
processing)





Ideas to offset the footprint

Plant
6 trees per
ton of CO₂
= 450 trees





Creating access to finance for development projects

[Clean Energy Revolving Fund](#)



[Pioneer Facility](#)



[Nexus Climate Finance Revolving Fund](#)



What could we do next time?

- Frequency of events
- Build on efficiencies with venue
- Compulsory car pooling
- Priority to more fuel efficient airlines
- Maximise room sharing
- All vegetarian meals
- Set meals to reduce food waste
- Reduce printing further
- Eco lanyards for nametags
- Encourage use of apps for business card swapping
- Onsite data collection and surveys

Inspiration and Statistics



References

- https://co2.myclimate.org/en/flight_calculators/new
- <https://www.carbonfootprint.com/calculator.aspx>
- <https://store.b-e-f.org/event-calculator/#results>
- <https://climatecare.org/calculator/>
- <http://pacinst.org/publication/bottled-water-and-energy-a-fact-sheet/>
- <https://www.theguardian.com/environment/2008/feb/10/water.foodanddrink>
(Consumer Council for Water; National Consumer Council; Earth Policy Institute; Bottled Water Information Office; Zenith; Mintel)
- <https://treesforlife.org.uk/plant-trees/becoming-carbon-conscious/>
- <http://www.greenkey.global/online-hcmi/>
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- <https://www.smithsonianmag.com/smart-news/reusing-hotel-towels-actually-does-make-difference-180949890/>

Keep in touch

Help create a Plastic Free Cambodia



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The background is a solid teal color. Overlaid on this are faint, semi-transparent images of plastic waste, including a water bottle, a cap, and a straw. Additionally, there are several irregular shapes with a giraffe print pattern scattered across the background.

THANK YOU

[HTTPS://PLASTICFREECAMBODIA.COM/](https://plasticfreecambodia.com/)

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