

CROTON CLIMATE ACTION NEXT STEPS

October 24, 2019 | Croton Public Library | croton100.org



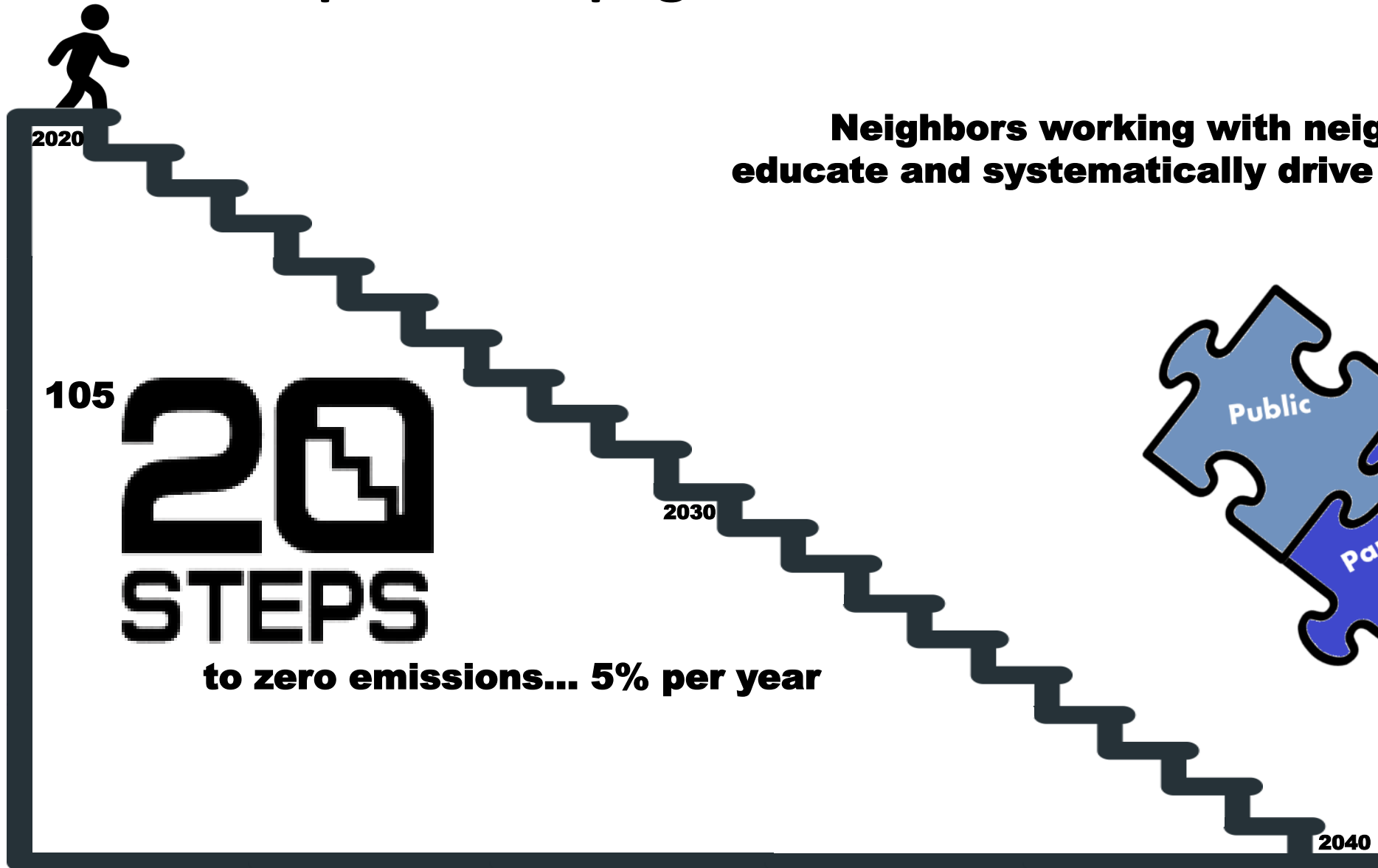
“Limiting global warming to 1.5°C would require rapid, far-reaching and unprecedented changes in all aspects of society.”

- IPCC Summary for Policymakers, October 8, 2018

“The climate and the biosphere don’t care about our politics and our empty words for a single second.”

- Greta Thunberg, Climate Activist

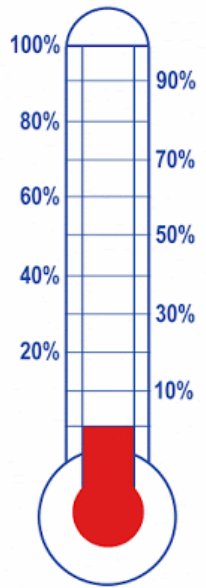
Croton100 plan on a page



Neighbors working with neighbors to inform, educate and systematically drive down emissions

Overall goal

- Draw down net greenhouse gas emissions to **ZERO** in the twenty-year period from 2020 to 2040
 - Note that Croton is more wasteful than the national average of emissions per household
 - Every day of inaction means another 700+ tons of Croton emissions in the atmosphere
- In keeping with the UN's IPCC report
- Scope
 - Zip code 10520 (12,810 population, 5,540 housing units)
 - Economy-wide, not just electricity
 - Economy-wide, not just municipal operations
- We will use 2019 as the baseline and reduce by 5% of the baseline every year for 20 years
- We will mimic the private/public partnership idea from Bedford and create a not-for-profit called **Croton100** (web site Croton100.org)
- We will encourage sharing of costs and best practices with other towns and municipalities
- We want to be the first community to announce an economy-wide zero emission goal by 2040, to be a shining example, to be able to look the young people in the village in the eye and say yes, we did something about that

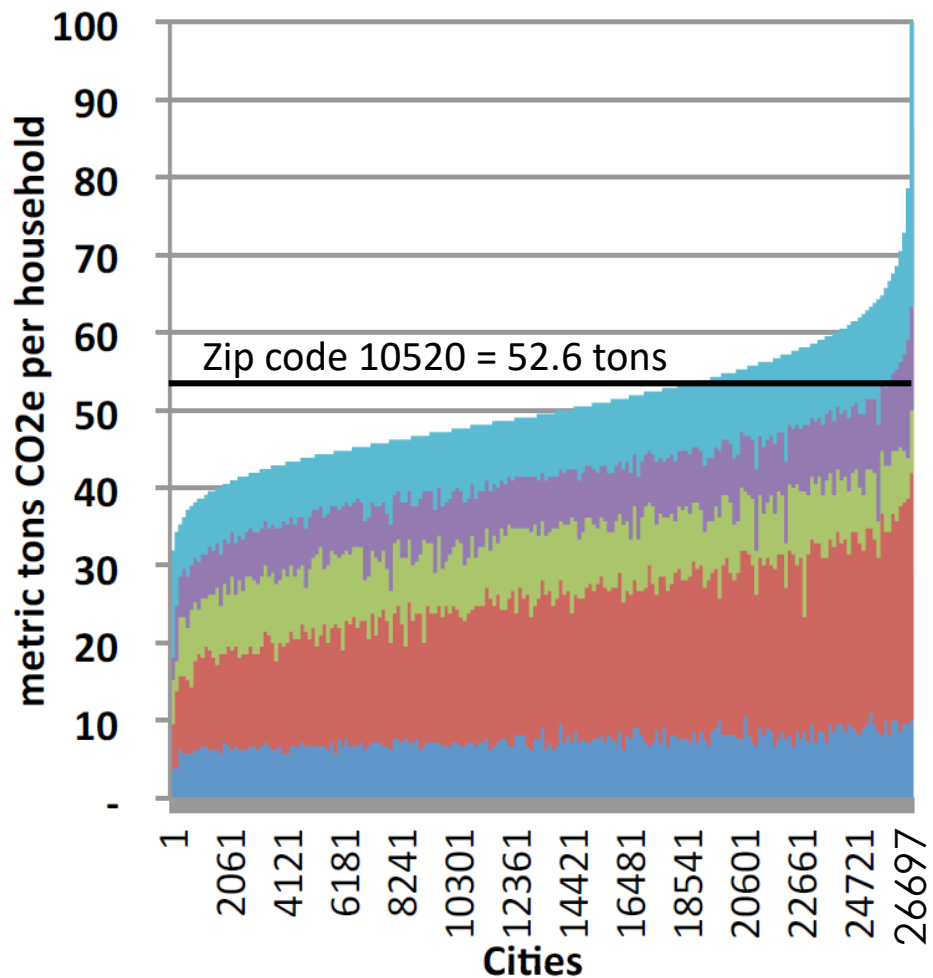


Public “draw down” display

Student Presentations

Hand over to Chandu

Emissions goals

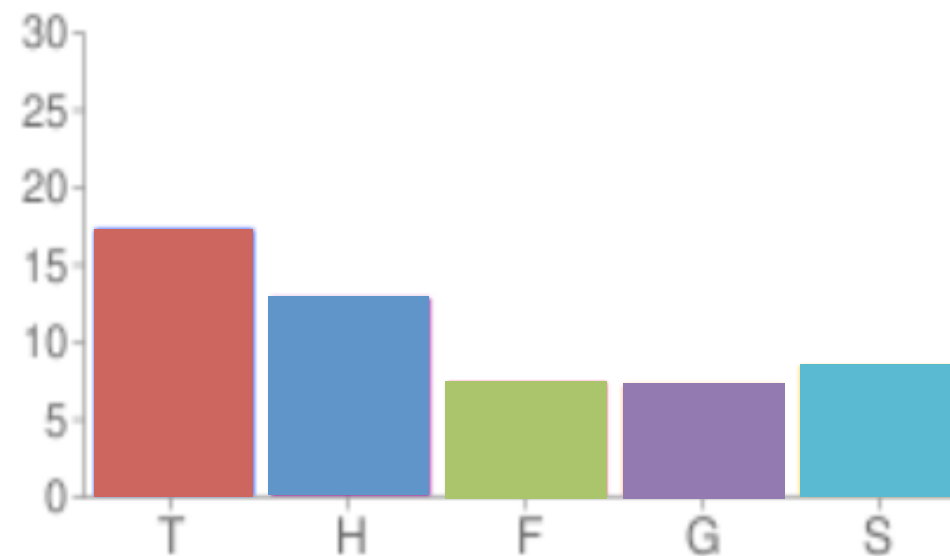


■ Housing
 ■ Trans
 ■ Food
 ■ Goods
 ■ Services

[Christopher M. Jones](#) and [Daniel M. Kammen](#), [Spatial Distribution of U.S. Household Carbon Footprints Reveals Suburbanization Undermines Greenhouse Gas Benefits of Urban Population Density](#). *Environ. Sci. Technol.*, 2013, dx.doi.org/10.1021/es4034364

52.6

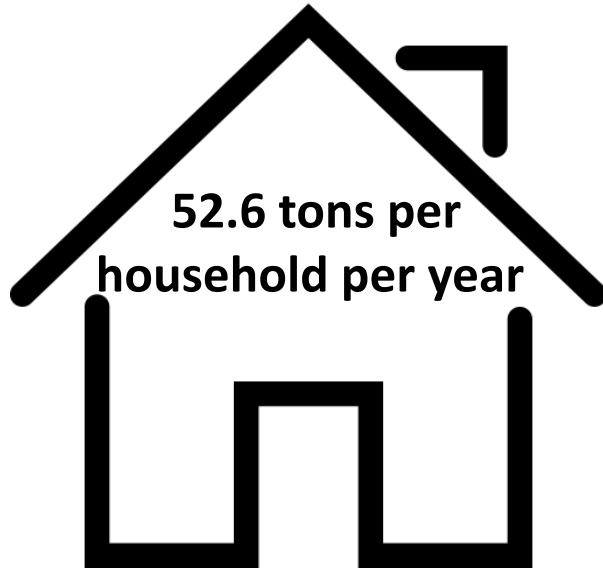
metric tons CO₂ equivalent



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<https://coolclimate.berkeley.edu/maps>

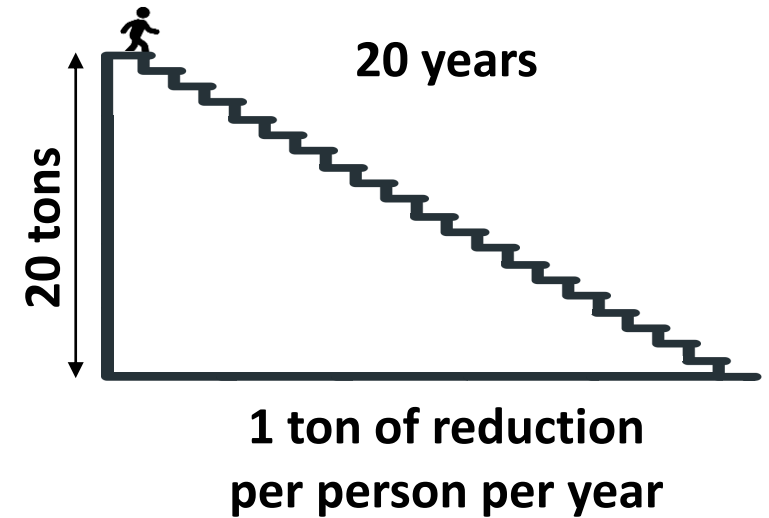
Croton emissions



2.6 people per household

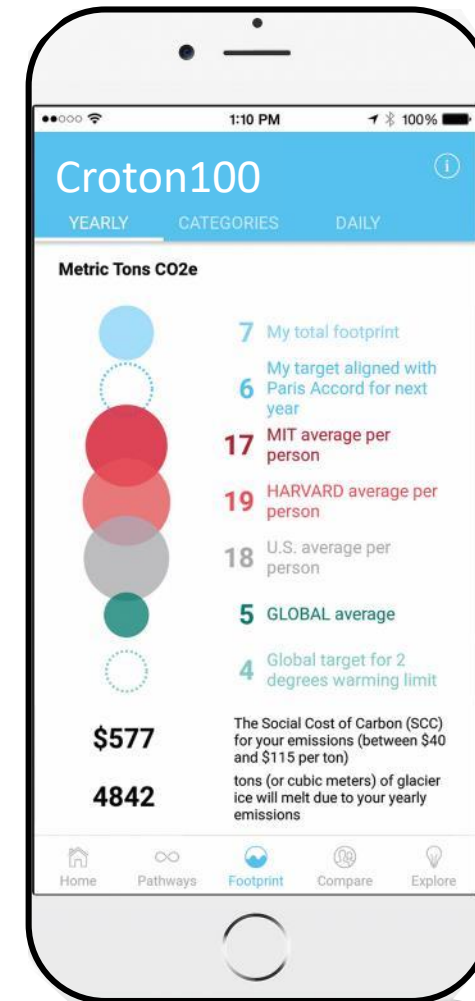


20 tons per person per year



Easy-to-remember goals

- Croton has per-capita emissions of 20 metric tons of CO₂e (give or take a few percent)
 - Reduction goal = 1 metric ton per person per year
 - = 1,000 kg per person per year
 - = 1,000 **points** per year
- Some people will drag their feet on emissions reductions, so we have to get the rest to over-achieve in the early years
- Point system will be used for various purposes
 - Track and measure goals (voluntary/honor system)
 - Recognize outstanding achievements
 - Gamification
- Specialized point systems for renters, landlords, businesses, public spaces
- Points will be tracked by means of a smartphone application
 - The application will allow us to keep residents informed, engaged and educated



The five Es of emission reduction



Efficiency

Insulation, smart thermostats, carpooling, LED bulbs, biking, no idling, public transport, ...



Electrification

Electric vehicles, heat pumps, ...



Electric generation

Solar panels, community aggregation, community choice, ...



Eating

Low carbon diet, land use & agricultural impacts...

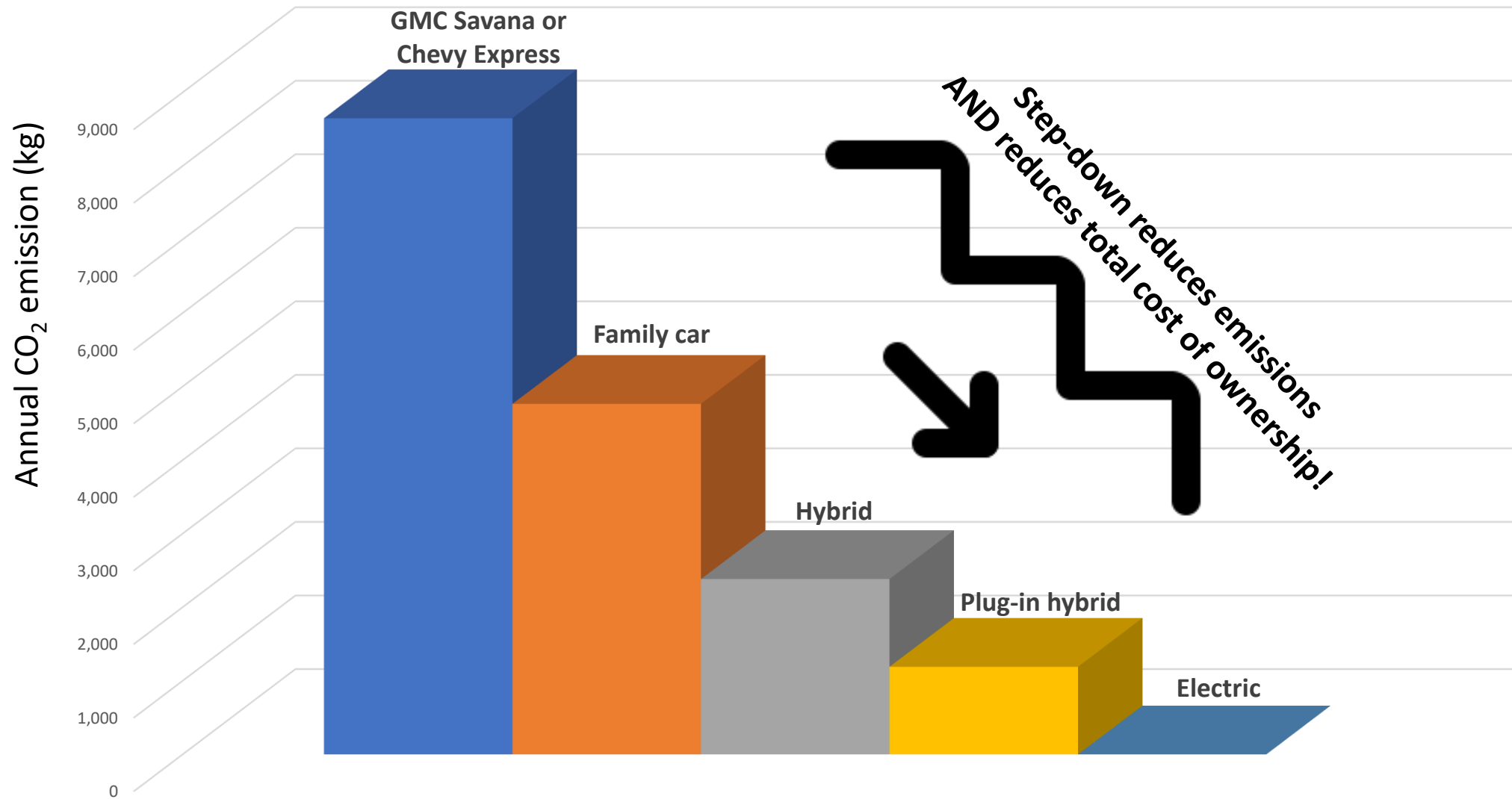


Education

Build knowledge + engage with neighbors, friends, relatives, parishioners, politicians, regulators, ...

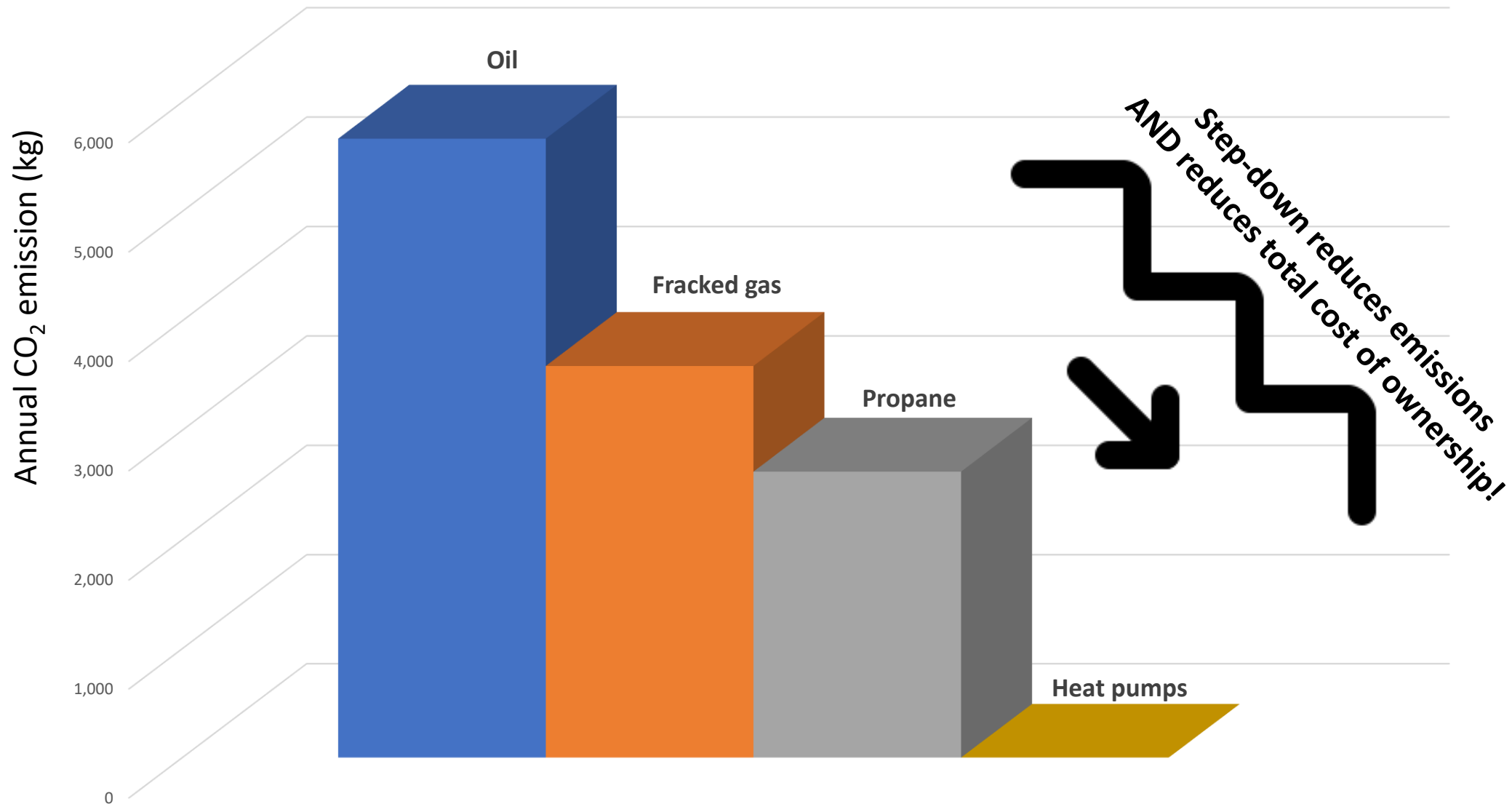


Example of emission reduction: the car you drive



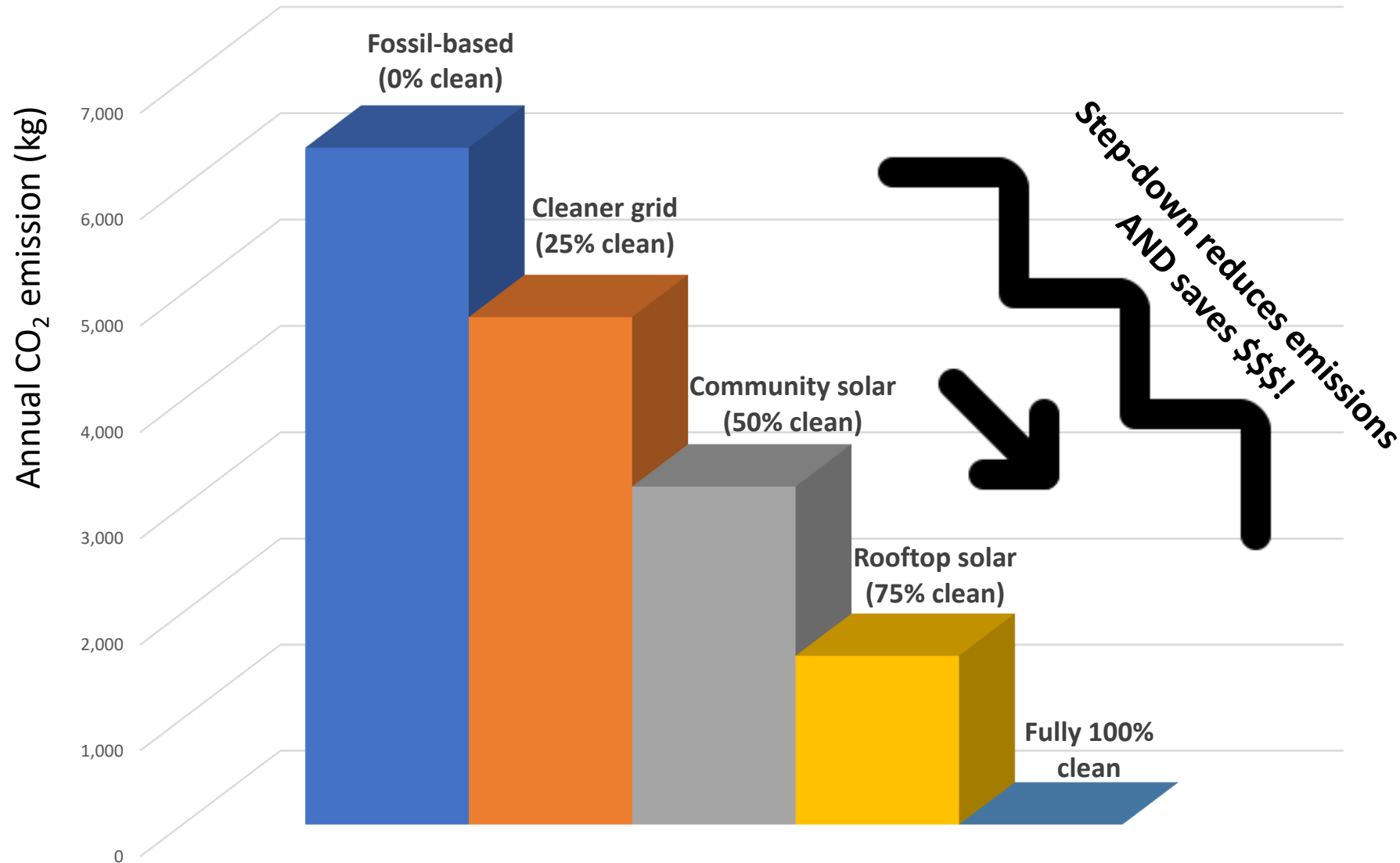


Example of emission reduction: how you heat your home

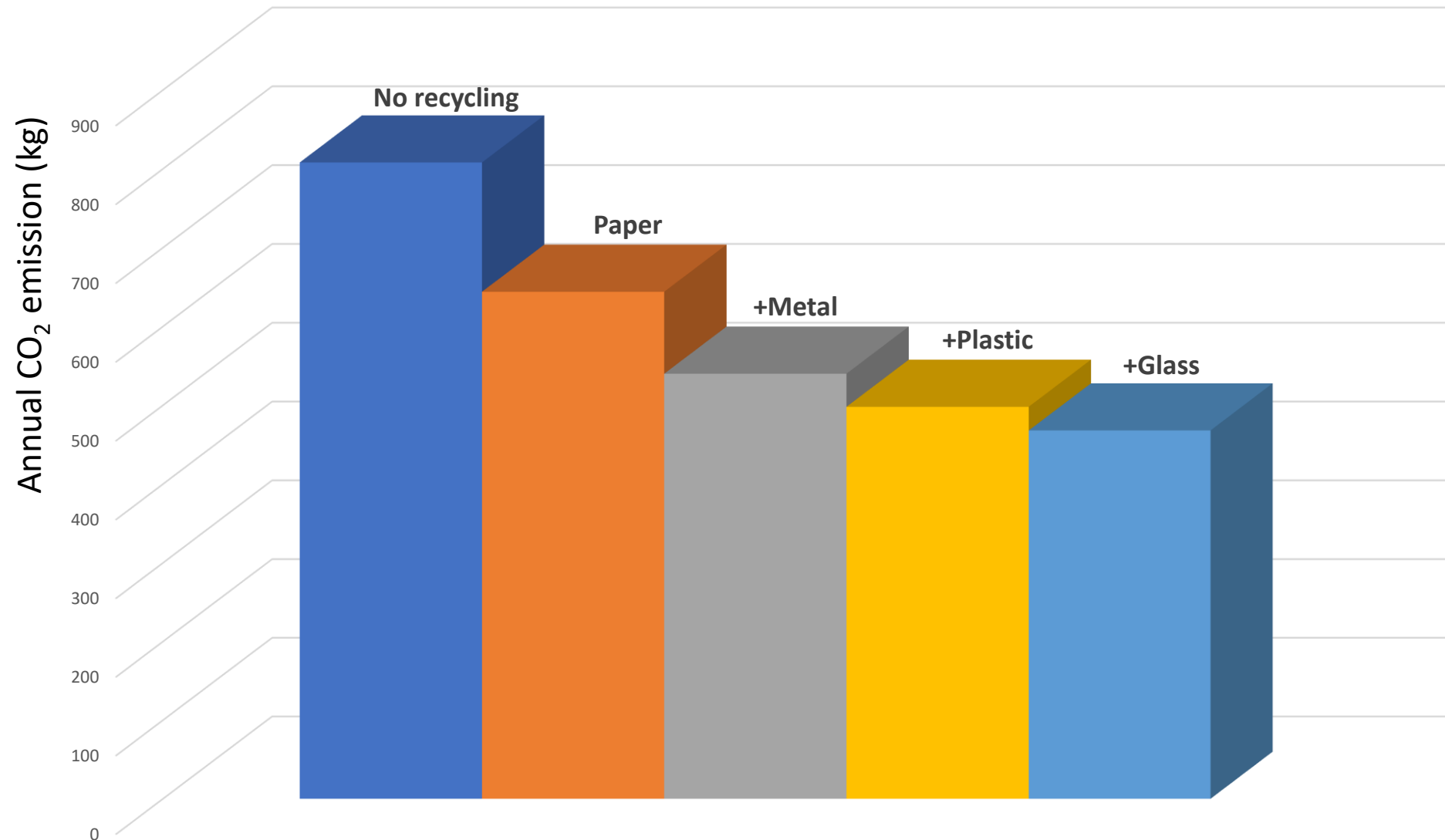




Example of emission reduction: electricity source



Example of emission reduction: waste and recycling



Hand over to Lisa

Funding of our Croton100 not-for-profit



Private donations



Corporate sponsorships



Grant proposals

Croton100 launch preparations

Board of Directors

Rachel Bernstein | David Hemmerling | Donna O'Malley | Lisa Moir | Karen Moy | Nicole Shapiro | Chandu Visweswariah

Co-Presidents

Lisa Moir | Karen Moy

Nicole Shapiro
Patty Buchanan

Launch Committee

- Event plans (venue, celebrity speaker, etc.)
- Donations
- Corporate sponsorships
- Publicity

5
members

Tim Dinger
Hunter Brodie

App. Committee

- Web site
- Smartphone app.
- Data

5
members

Donna O'Malley
Karen Moy

Recruitment Committee

- Recruit/train volunteers
- Draft pledge
- Gather pledges for launch
- Student committee leaders

5 members, 100
volunteers

Dr. Thomas Theis
Matthew Rubinstein

Emissions Committee

- CO₂ accounting
- Campaign design
- Research, studies, grants
- Collateral

5
members

Conclusions and call for help

Comprehensive, aspirational, draw-down plan

Clearly measured metrics and goals

Deliberate and systematic approach

“Neighbors influencing neighbors”

We will only succeed if we can get every Crotonite fired up!!!

Your presence today is a strong sign of commitment

Please sign up to be committee members and volunteers

Please lead by example!

Please join one of the break-outs to help us plan for a big launch event in early 2020

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