

Climate on Tap

'New Years Resolutions: commitments to a lower carbon 2020'

Facilitator:
Laura Tucker

Sponsored by:











A new year!



In 2020, what do you want to keep doing? ... start doing? ... stop doing?

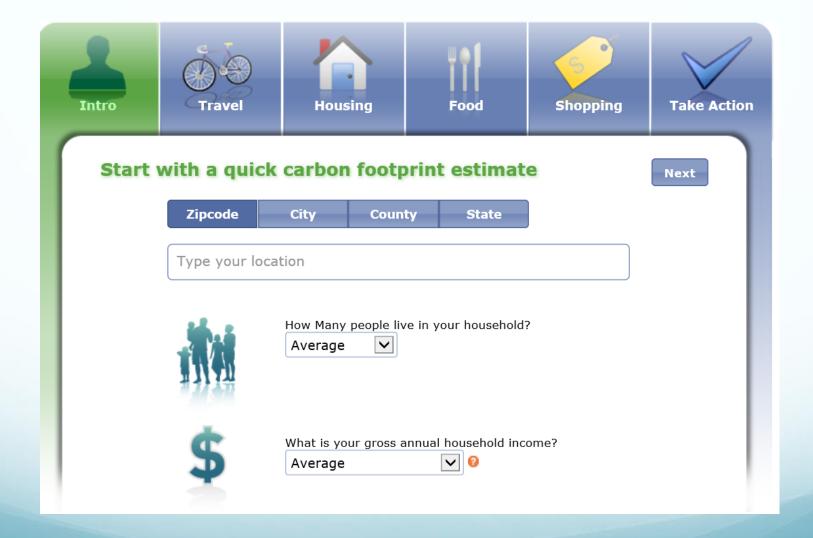
"Every dollar we spend is a vote for how we want the world to be."

Anne Lappe



Share your thoughts with those at your table or with the person next to you.

Carbon Footprint Calculator



https://coolclimate.berkeley.edu/calculators/household/ui.php





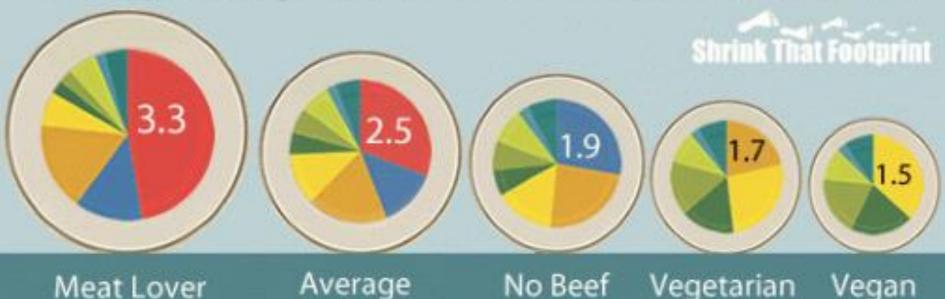
Dealing with Stuff

- 1. Choose a used product
- 2. Upcycle some stuff
- 3. Choose a durable product
- 4. Recycle some stuff
- 5. Share things with friends and neighbors

Carbon Footprint of Food

Foodprints by Diet Type: t CO2e/person



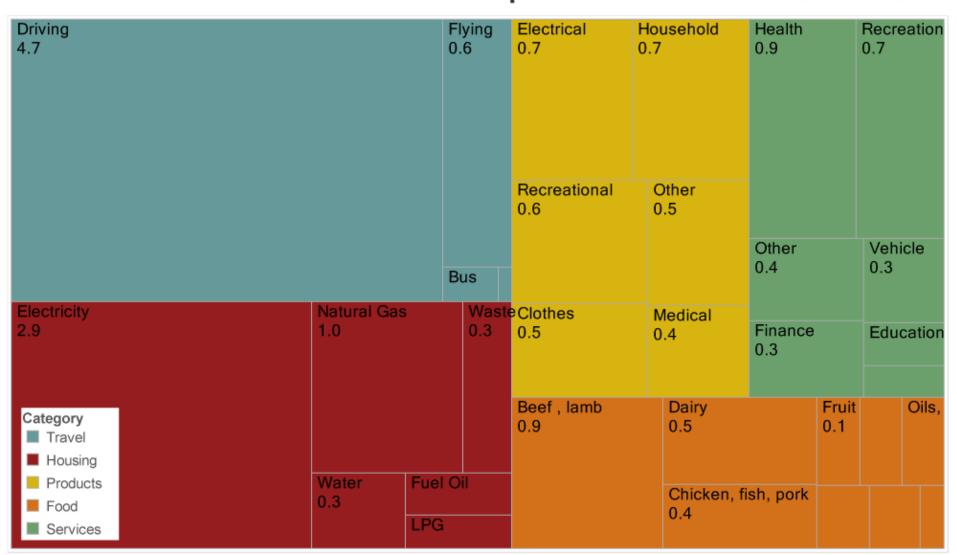


Footprints include emissions from supply chain losses, consumer waste and consumption.. Each of the four example diets is based on 2,600 kcal of food consumed per day, which in the US equates to around 3,900 kcal of supplied food.

Sources: ERS/USDA, various LCA and EIO-LCA data



The American Carbon Footprint: 19t CO2e (2010)



Note: these are emissions from personal consumption. Government and captial expenditure account for a further 5 t CO2e.

shrinkthatfootprint.com

The 35 Easiest Ways to Lower Your Carbon Footprint

https://blogs.ei.columbia.edu/2018/12/27/35-ways-reduce-carbon-footprint/

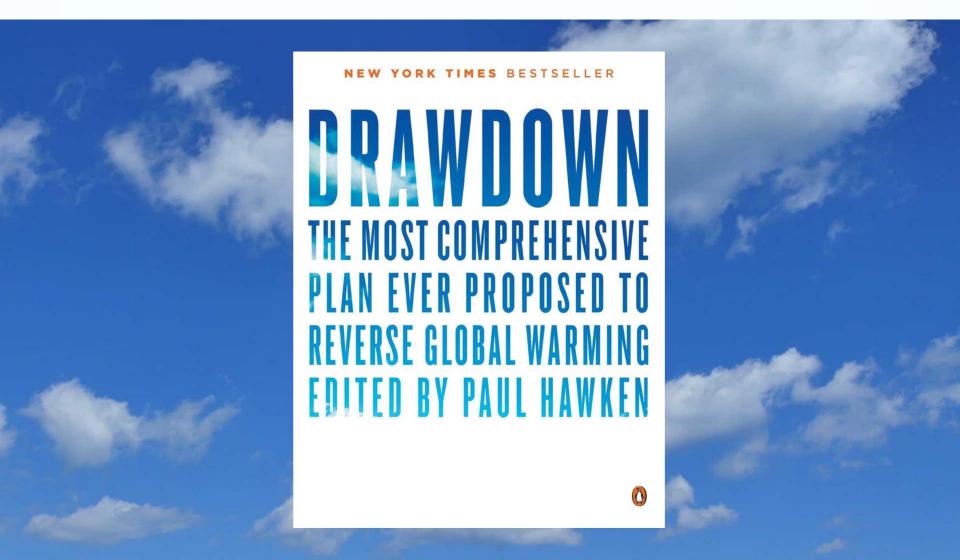


Let's look at systemic solutions. What ideas do you have for change at this level?



Take a few minutes to ponder this, then share your thoughts with those at your table or with the person next to you.

Drawdown is the point in time when the concentration of greenhouse gases in the Exirch Prayels he against the concentration of greenhouse gases in the Exirch Prayels against the against the appropriate and possible the solutions of the concentration of greenhouse gases in the Exirch Prayels and possible the solution of greenhouse gases in the Exirch Prayels and possible against the solution of greenhouse gases in the Exirch Prayels and possible and possible against the solution of greenhouse gases in the Exirch Prayels and possible against the solution of greenhouse gases in the Exirch Prayels and possible against the solution of greenhouse gases in the Exirch Prayels and possible against the solution of greenhouse gases in the Exirch Prayels and possible against the solution of greenhouse gases in the Exirch Prayels and possible against the solution of greenhouse gases in the Exirch Prayels and possible against the solution of greenhouse gases in the Exirch Prayels and possible against the solution of greenhouse gases in the Exirch Prayels and possible against the solution of greenhouse gases in the Exirch Prayels against the prayels against the prayels against the solution of greenhouse gases in the Exirch Prayels against the prayels against the prayels against the prayels against the solution of greenhouse gases and possible against the prayels against the pray







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ELECTRICITY GENERATION

Biomass

Cogeneration

Concentrated Solar

Energy Storage (Distributed)

Energy Storage (Utilities)

Geothermal

Grid Flexibility

In-Stream Hydro

Methane Digesters (Large)

Methane Digesters (Small)

Micro Wind

Microgrids

Nuclear

Rooftop Solar

Solar Farms

Solar Water

Waste-to-Energy

Wave and Tidal

Wind Turbines (Offshore)

Wind Turbines (Onshore)

FOOD

Biochar

Clean Cookstoves

Composting

Conservation Agriculture

Farmland Irrigation

Farmland Restoration

Improved Rice Cultivation

Managed Grazing

Multistrata Agroforestry

Nutrient Management

Plant-Rich Diet

Reduced Food Waste

Regenerative Agriculture

Silvopasture

System of Rice Intensification

Tree Intercropping

Tropical Staple Trees

WOMEN AND GIRLS

Educating Girls

Family Planning

Women Smallholders

BUILDINGS AND CITIES

Bike Infrastructure

Building Automation

District Heating

Green Roofs

Heat Pumps

Insulation

Landfill Methane

LED Lighting (Commercial)

LED Lighting (Household)

Net Zero Buildings

Retrofitting

Smart Glass

Smart Thermostats

Walkable Cities

Water Distribution

LAND USE

Afforestation

Bamboo

Coastal Wetlands

Forest Protection

Indigenous Peoples' Land

Management

Peatlands

Perennial Biomass

Temperate Forests

Tropical Forests

TRANSPORT

Airplanes

Cars

Electric Bikes

Electric Vehicles

High-speed Rail

Mass Transit

Ridesharing

Ships

Telepresence

Trains

Trucks

MATERIALS

Alternative Cement

Bioplastic

Household Recycling

Industrial Recycling

Recycled Paper

Refrigerant Management

Water Saving - Home

Featured Solutions

COMING ATTRACTIONS



MARINE PERMACULTURE

Marine permaculture utilizes floating, latticed structures designed to grow rich kelp forests and foster marine life. It could sequester billions of tons of carbon dioxide.

WOMEN AND GIRLS



WOMEN SMALLHOLDERS

If women smallholders receive equal farming resources and land rights, their yields will rise by 20 to 30 percent, avoiding emissions from deforestation.

MATERIALS



REFRIGERANT MANAGEMENT

The primary chemical refrigerant, HFCs, is a potent greenhouse gas. Emissions are avoided by managing leaks and disposal and by phasing out the use of HFCs.

RANKING BY 2050

#62

RANKING BY 2050

#1

BROWSE ALL SOLUTIONS

Solutions by Rank

Rank	Solution	Sector	TOTAL ATMOSPHERIC CO2-EQ REDUCTION (CT)	NET COST (BILLIONS US \$)	SAVINGS (BILLIONS US \$)
1	Refrigerant Management	Materials	89.74		\$ 50E.77
2	Wind Turbines (Onshore)	Electricity Generation		\$1,225.37	\$7,425.00
3	Reduced Food Waste	Food	70.53	N/A	NA
4	Plant-Rich Diet	Food	66.11	N/A	N/A
5	Tropical Forests	Land Use	61.23	N/A	N/A
6	Educating Girls	Women and Girls	51.48	N/A	N/A
7	Family Planning	Women and Girls	51.48	N/A	N/A
8	Solar Farms	Electricity Generation	36.90	\$-80.60	\$5,023.84
9	Silvopasture	Food	31.19	\$41.59	\$699.37
10	Rooftop Solar	Electricity Generation	24.60	\$453.14	\$3,457.63

SEE ALL SOLUTIONS BY RANK

* Rank	Solution	≑ Sector	TOTAL ATMOSPHERIC CO2-EQ REDUCTION (GT)	♦ NET COST (BILLIONS US \$)	SAVINGS (BILLIONS US \$)
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10	Rooftop Solar	Electricity Generation	24.60	\$453.14	\$3,457.63
11	Regenerative Agriculture	Food	23.15	\$57.22	\$1,928.10
12	Temperate Forests	Land Use	22.61	N/A	N/A
13	Peatlands	Land Use	21.57	N/A	N/A
14	Tropical Staple Trees	Food	20.19	\$120.07	\$626.97
15	Afforestation	Land Use	18.06	\$29.44	\$392.33
16	Conservation Agriculture	Food	17.35	\$37.53	\$2,119.07
17	Tree Intercropping	Food	17.20	\$146.99	\$22.10
18	Geothermal	Electricity Generation	16.60	\$-155.48	\$1,024.34
19	Managed Grazing	Food	16.34	\$50.48	\$735.27
20	Nuclear	Electricity Generation	16.09	\$0.88	\$1,713.40
21	Clean Cookstoves	Food	15.81	\$72.16	\$166.28
22	Wind Turbines (Offshore)	Electricity Generation	14.10	\$545.30	\$762.50

You get a new #1!

1	I. Wind Energy	Electricity Generation	98.7	\$1,770.67	\$8,187.50
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You get a new #1!

1. Empowering Women & Girls

Women and Girls

102.96

2. Wind Energy

Electricity Generation

98.7

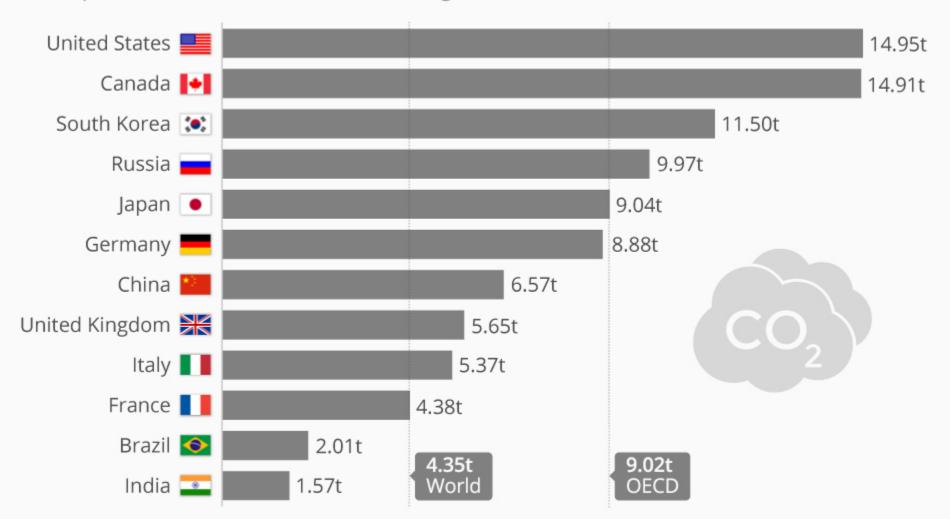
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The Global Disparity in Carbon Footprints

Per capita CO₂ emissions in the world's largest economies in 2016* (in metric tons)















I pledge allegiance to the Earth and all the life which it supports. One planet in our care, irreplaceable, with sustenance and respect for all.

In 2020, what do you want to keep doing? ... to add? ... to stop?

A final thought ...

"Never doubt that a small group of thoughtful, committed citizens can change the world; indeed it's the only thing that ever has." — Margaret Reed



5 Reasons to Be Optimistic

https://landing.pachamama.org/5-reasons-to-be-optimistic



Climate on Tap

Thank you for coming! Questions?

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