Tackling Climate Change

Practical Actions to Make a Difference

Yesterday's Main Points

1 -Action NOW!

2 -We should be amongst the leaders - collective power!

3-Mindset change - neurotransmitters, overconsumption

Main Points for Today

Let's be the ones driving climate action

Ideas and practical tips to take home and put into practice



Now is the Time to Take Climate Action

- There is a big movement
- Social tipping point
- We are the first generation, won't be the last



"Doctor, we need you in Room Planet Earth"

- Our industry is a big part of the problem
- Ethical and professional duty
- Financially privileged \rightarrow economic clout
- ▶ Respected voice \rightarrow social clout
- Trained to evaluate current behavior vs future health consequences
- Expertise in managing complicated problems
- We cannot rely on politicians or new tech to fix this problem



How can we not give this our very best shot?

Climate Action We Can Take



Say no to gloves



Forced Labour and Human Rights Abuses

This was published 1 year ago

Ansell accused of 'knowingly profiting' from forced labour at Malaysian glove supplier



Chris Barrett August 10, 2022 – 5.49pm

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4				

A

Singapore: Ansell is being sued in a US court by a group of former migrant workers in Malaysia who claim the Australian personal protective equipment giant "knowingly profited" from alleged forced labour in the disposable glove manufacturing industry.

The 13 Bangladeshi workers say they were trafficked to Malaysia and made to live and work in shocking conditions at single-use glove producer Brightway Holdings, a supplier to Ansell.

NHS rubber gloves made in Malaysian factories linked with forced labour

Exclusive: firms supplying health service allegedly exploit thousands of migrants



Workers at Top Glove and WRP in Malaysia claim they are subjected to forced overtime, debt bondage and withheld wages. Photograph: Teh Eng Koon/AP

https://www.smh.com.au/world/asia/ansell-accused-of-knowingly-profiting-fromforced-labour-at-malaysian-glove-supplier-20220810-p5b8se.html

https://www.theguardian.com/global-development/2018/dec/09/nhs-rubbergloves-made-in-malaysian-factories-accused-of-forced-labour



Great Ormond Street Hospital – reducing single use plastics case study



Staff at Great Ormond Street Hospital reduced use of plastic gloves, and in doing so saved 21 tonnes of plastic and £90,000. The team used internal communications channels to raise awareness and developed a training package to reach all their nursing staff and healthcare assistants. The project changed behaviour and helped deliver health benefits for staff as well as the environment.



Join our ICU Initiative To

Reduce unnecessary use of gloves

Improve resource stewardship with financial and environmental benefits

Improve hand hygiene

SMART therapy for asthma







Curb Your Consumption

- Challenge " open just in case" culture
- Turn off lights and computers
- Consider the environmental cost of things
- Double-sided printing





- Travel Less
- If travel is necessary, OFFSET YOUR CARBON





To receive the Gift Certificate, please offset the emissions and then click "Submit".

Estimated Offset Cost (NZD - GST exclusive)

\$50.00

Would you like to offset your footprint? Let's do it ONo thanks

Carbon Credit Project

- NZUs Jacks Valley Permanent New Zealand Restorative Forest Units (NZUs) produced in Motueka, New Zealand.
- VCUs Papua New Guinea Verified Carbon Units (VCUs), produced in an avoided deforestation project in the New Ireland province, Papua New Guinea.

ekos.co.nz

Practice good medication stewardship

Talk about disposal



Disposal of Unwanted Medicines Properly

Return your unwanted medicines to your pharmacy for *FREE*



Waitemata

Medication Stewardship

RESEARCH ARTICLE | ENVIRONMENTAL SCIENCES

Pharmaceutical pollution of the world's rivers

Y in 🗠 🕗

John L. Wilkinson 💿 🖾 , Alistair B. A. Boxall 💿 , Dana W. Kolpin 💿 , +123, and Charles Teta 💿 Authors Info & Affiliations

Edited by Andrea Rinaldo, School of Architecture, Civil and Environmental Engineering, Laboratory of Ecohydrology, Ecole Polytechnique Federale de Lausanne, Lausanne, Switzerland; received August 11, 2021; accepted December 10, 2021

February 14, 2022 119 (8) e2113947119 <u>https://doi.org/10.1073/pnas.2113947119</u>

Medication stewardship





New medications - limit initial supply

					GMS: A4
Drug:	Atorvastatin 20Mg Tab			6	
Mitte:	90	tabs	Period:	-	Amount: 3,33
Directions:	use 1 tab OD				
Repeats:	0				Options •
Administer:	Syster	nic	-		
Initial Dispensing	Period:	14 days	🕑 Provider E	ligible for	Co-Payment
	1		1000		
Provider:	Dr Ret	oecca Randerson 💌	📃 Prescribe	d External	ly
Provider: Date of Issue:	Dr Ret	2.02	Prescribe External Provider:	d External	ly
		2.02	search The State		
Date of Issue:	13/05/	2024 -	External Provider:	ense ()(
Date of Issue: Classification:	13/05/	2024 -	External Provider: Ø Frequent Dispe	ense 🖸) Long Term Generic Substituti
Date of Issue: Classification: Medication Status	13/05/	2024 •	External Provider: Prequent Disp Confident	ense ()(ial ()() Do) Long Term Generic Substituti Not Upload to MMF

Recycle what you canRight Bins



Medical waste

Don't be an over-includer!







Infectious Waste

- EXPRESSIBLE BODY FLUIDS
- SHARPS
- radioactive, cytotoxic
- Waste from isolation rooms
- Receptacles containing body fluids ie discarded lab specimens, cultures
- Waste from pts known to be suffering from transmissible wound infections ie MRSA

General Waste

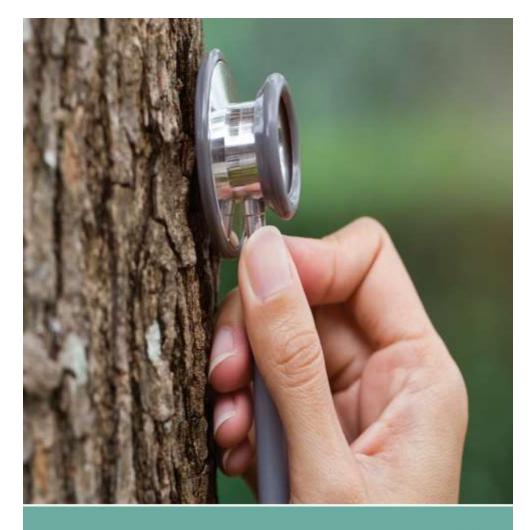
All other Non-Recyclables:
 saline moistened cleaning swabs
 swabs in small surgery
 Throat sticks, pooey nappies etc
 Gloves

Make/keep the new system 'attractive'









Greening General Practice.

A toolkit for sustainable practice



The Royal New Zealand College of General Practitioners Te Whare Tohu Rata o Aotearoa

C -

rant of the comm Käingo Tupu

Healthy Living for Patients / families





Choose Ethical Investments and Environmentally-Responsible providers





Many NZ banks service + profit from Fossil Fuel industry.



Not all are ethical providers

What can individuals do to divest-invest?

Bank accounts

 You can switch your bank account to a provider which doesn't invest in fossil fuels. Most countries have institutions that don't invest in fossil fuels and offer current accounts, savings and loans accounts. Look out for 'ethical banks', 'building societies', or 'credit unions'.

Divest

Pensions and retirement savings

- The structure of retirement savings can vary, so there is no single process to follow.
- If you're employer or private pension provider manages it, work with them to go through the steps for organisations wanting to DivestInvest.
- A key step is to ask them to offer a fund which meets your investment criteria.

Personal Investments

Invest

- If you manage your own investments:
 - Decide your criteria for excluding or including companies.

- Assess where your investments are currently. There are several tools available to check this such as fossilfreefunds.org.
- Sell any shares that fail to meet your criteria, and switch to ones that do.
- If you have a fund manager:
 - Ask the fund manager to select funds or securities that meet your exclusion and inclusion criteria.
 - Ask them how they incorporate climate risk into their investment process.
 - If they are unable or unwilling to respond adequately, consider switching managers.

4350 Bank Statement: Is your bank climate friendly?

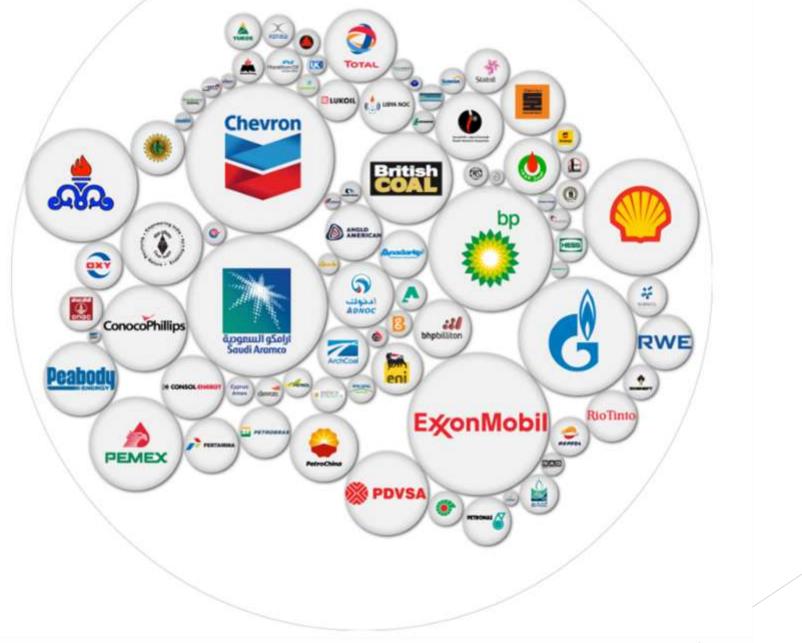
	AMOUNT LOANED TO FOSSIL FUELS	EMISSIONS FROM EXPANSION PROJECTS (Claret)	RULES OUT INVESTING In Fossil companies?	FOSSIL-FREE BANK
C Kiwibank.	\$0	Ot	0	YES
The Cooperative Bank	\$0	Ot	0	YES
🎸 s <u>b</u> s	\$0	Ot	0	YES
◆ TSB	\$0	Ot	0	NO
WESTPAC GROUP, PARENT OF	A\$9.0B	3B t	8	NO
bnz	A\$14.0B	6B t	8	NO
	A\$15.8B	6B t	8	NO
ANZ OROUP, PARENT OF	A\$18.6B	5.3B t	8	NO
🍐 Rabobank	A\$19.1B	?	8	NO
D F E 能 行 BANK OF CHINA	A\$185.3B	?	8	NO
	?	?	?	NO

'Aotearoa Bank Statement 2024'

www.350.org.nz/fossil -free-banks/

Further details and letter-template at above address

90 Companies responsible for two thirds of emissions



Set a good example:Reusables





Greatist.com

No more plastic water bottles (for real!)





Carpool
Use public transportation
Travel actively



Sashiko

Mend or repair your broken things





Photo by Riho Kitagawa on Unsplash

Be a smart consumer

Think about:

- How far has it travelled?
- How was it produced?
- How is it packaged?
- How long will it last?
- What happens when I've finished with it?
- What happens to the packaging?
- Do I really need it anyway?



Leave the freebies





GENTLE ON FABRICS

- HARSH ON PLANET

- SHIT FOR SKIN

After you give birth take this youcher into

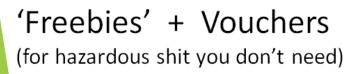
BOUNTIFUL NEW PARENT PACK

回路积

participating pharmacles to receive your FREE BOUNTIFUL NEW PARENT PACK

for your nearest stockist scan QR code or visit bountifulpacks.co.nz/collectionpoints

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Café Regenerata

Menu

Serotonin

- Contemplate the sunrise
- Morning yoga
- Bush walks
- Kneading bread dough
- Weighted blanket

Endorphins

- Gardening
- Listen to music
- Watch a movie
- Laughter



Oxytocin

- Sense of belonging
- Somatosensory stimulation (skin)
- Positive warm human-human connections
- Volunteer in your community
- Loving human-pet interactions
- Warm bath

Ethical Dopamine/Nature-centred Dopamine

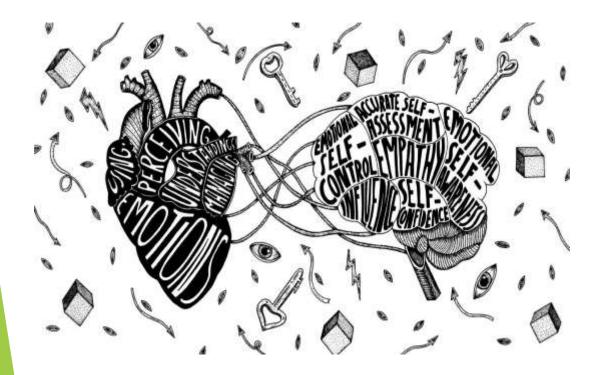
- Laughter
- Exercise
- Handcrafts
- Supporting others

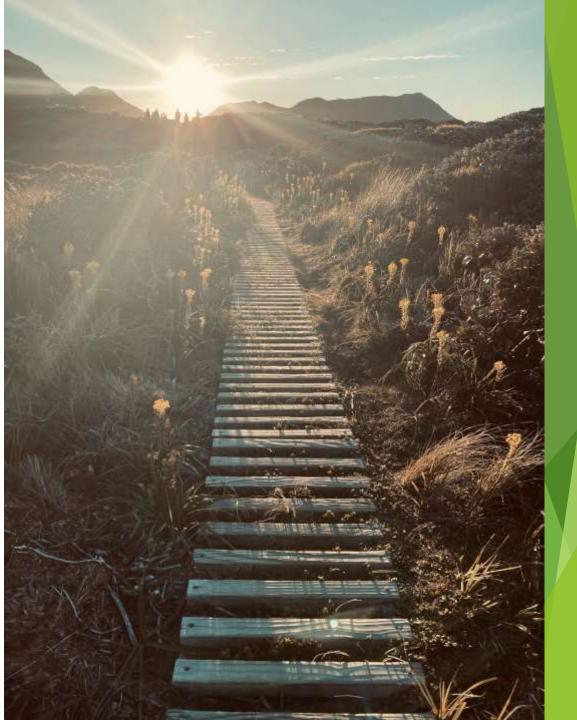


Share Your Wins



It's a journey



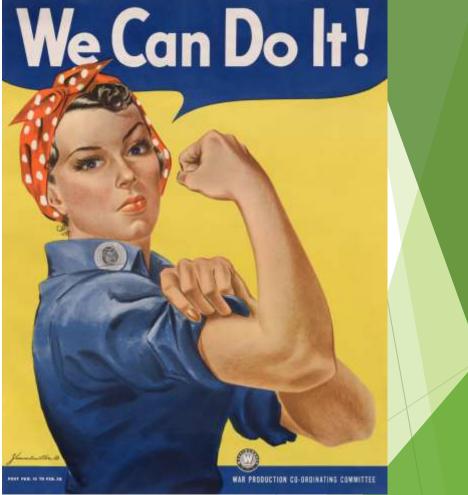


Personal Sustainability



Summary: Climate Actions We can Take Today

- No Gloves
- SMART Asthma therapy
- Curb consumption
- Travel less and offset the remainder
- Good medication stewardship
- Dispose correctly
- Travel actively
- Mend and Repair
- Leave the Freebies
- Share your wins
- Put your money where your heart is!
- Acknowledge this is a journey and take whatever step comes next for you

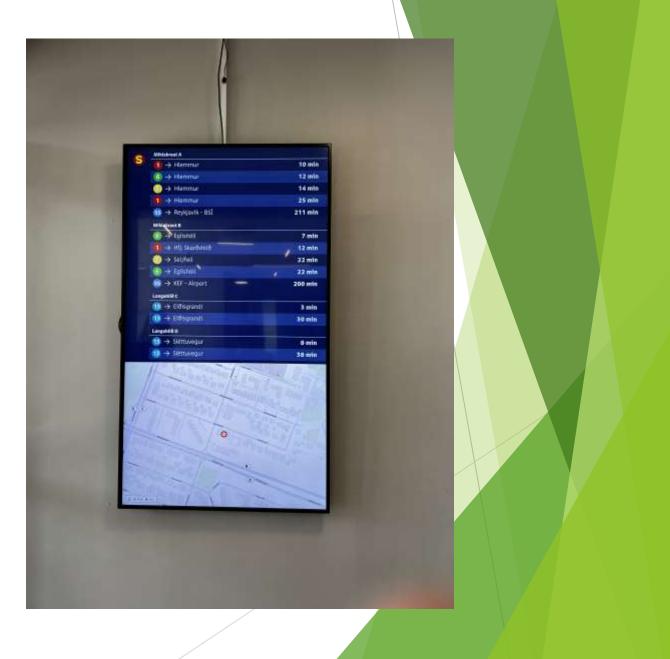


By J. Howard Miller - U.S. National Archives and Records Administration, Public Domain, https://commons.wikimedia.org/w/index.php?curid=80242715

Some good examples

Making it easy to do the right thing





Switzerland

SUSTAINABILITY STRATEGY 2030





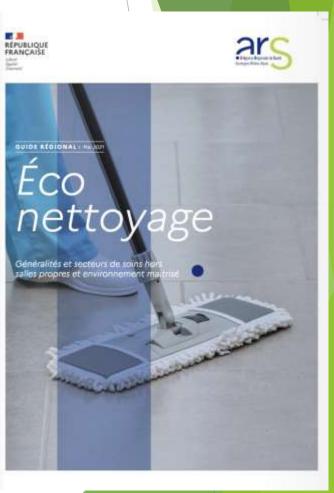
LES HUG REÇOIVENT UN PRIX POUR L'ÉLABORATION DE LEUR STRATÉGIE DE DURABILITÉ

O Auture C Institut



Collaboration

No more disinfectants



HECAF 360

Used syringes and sanitary pads: Nepali engineer's mission to recycle all hospital waste

Even amputated limbs can be recycled. It's behaviour change that is the biggest obstacle to a circular economy for healthcare, says Nepali engineer Mahesh Nakarmi.

"It's about changing the mindset of staff. That's the key."





Nepal





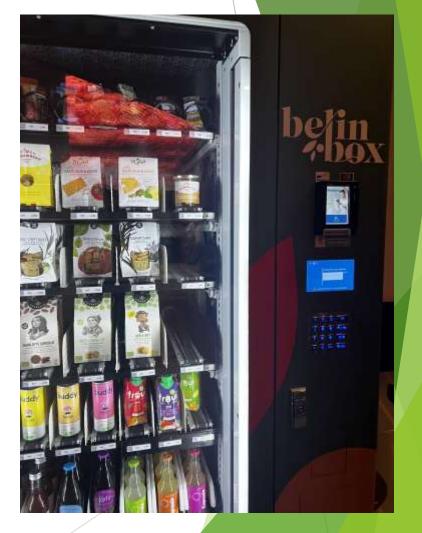


Feel-good projects









Review Paper

The Carbon Footprint of Surgical Operations

A Systematic Review

-Efficient

Chantelle Rizan, MRCS (ENT), *†‡§⊠ Ingeborg Steinbach, MA,§ Rosamond Nicholson, MBChB,¶ Rob Lillywhite, PhD, || Malcolm Reed, FRCS,† and Mahmood F. Bhutta, FRCS*†**

-No Single-Use Plastic

Carbon footprint of cataract surgery in different settings:

Cataract surgery in UK = 182 kg CO2 Cataract surgery in India = 6 kg CO2

Why? -highly efficient systems - reusable equipment

And the best part? LOWER rates of infective endophthalmitis

Rizan C et al. Annals Surgery 2020. 272(6): 986-995

Get Involved. Collaborate.

- www.SustainableDoctor.co
- Green Team
- Your Union
- HNZSustainability@health.govt.nz
- The other caps you wear or contacts you have



A few nuggets of positivity

- Every little bit counts
- Don't let perfect be the enemy of good
- You are not alone
- Don't Panic
- ► There is Hope



Further Inspo

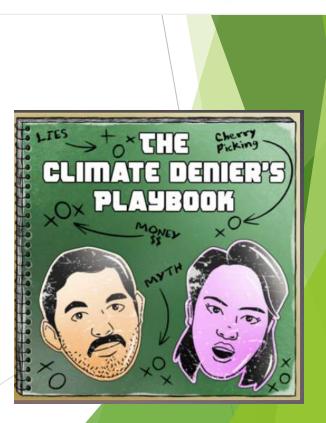
- Ethically Kate
- The Rubbish Trip
- Climate Town
- Climate Denier's Playbook
- The Juice Media







helping humans walk the talk on zero waste



TOWN

CLIMATE





rebecca@vital.kiwi.nz



Summary and CALL TO ACTION



What will YOU do with this?



A few more ideas

- Petition Pharmac to carry dry powder salbutamol inhalers
- Disposal instructions on prescriptions
- Get bike racks installed
- Ask for plant-based options at your hospital café
- Enter submissions for improving public transportation options



Energy Usage

- Most businesses think of energy as an overhead rather than a variable cost they can control (EECA)
- Most can make a minimum of a 20% cost saving with energy efficient changes to the workplace
- www.energywise.govt.nz (CHECK)

Computers

- Switching off can save \$120 a year
 20 computers = \$2400
- 2/3 of a computer's energy used by the monitor
- Screen savers don't save energy

Reusing of unwanted equipment

Sell it on:

- www.trademe.co.nz or
- www.te.co.nz trade and exchange

Gift it on a free website

- www.nothrow.co.nz
- www.donatenz.co.nz
- www.freecycle.org
- www.reusable.co.nz

Procurement and contracts

- ½ NHS Procurement emissions due to pharmaceuticals
 + medical equipment
 extraction, processing, assembly, packaging, transport, storage, handling
- Use less waste less, innovate, reuse, recycle, lean procurement
- Choose well choose manufacturers with green supply chain start asking. Prefer local manufacturers.
- provide preferred criteria for awarding contracts.
- Get our national purchasing bodies to require these.

Interesting but probaby don't need.....

- New Zealand has the 8th highest level of electricity generation per person in the OECD
- Chose power company with renewable generation sources
- Electricity generation from non-renewable sources is steadily increasing
- To reverse this trend, New Zealand needs to reduce total demand and this should be readily achievable by using our energy more efficiently

Healthy Living for Patients/families

Encourage activity - cycling/walking

Subsidised insulation - EECA 'Warm-up New Zealand: Heatsmart' programme.

Discourage unflued LPG heaters

Curtain banks

Eat less meat

Supply Chain

- Every-day purchasing decisions matter
- Prefer suppliers using environmentally friendly processes and/or local or New Zealand manufacturers
- Ask our organisations to include environmental sustainability in core values and key operating guidelines

eg DHB, Pharmac, PHOs, IPAs.

Make it happen

- Motivator(s) required
 - Positive reinforcement
 - Everyone is a potential resource-saver rather than a potential resource-waster
 - Go-to person for problems
- Aesthetics
- Involve key staff

Keep it happening

- (a) Left to their own devices, people will only maintain momentum if.....
- (b) a) they have to give a presentation on progress to their peers/ Board
- (b) b) they know someone (external) is booked to come in on Tuesday afternoon to check progress, or
- (c) it is a legal requirement.

- Or It is someone's (paid) job to encourage and sustain the change

High Yield Sources of Information/Inspiration

- Health Care Without Harm (<u>https://noharm-global.org</u>)
- OraTaiao OraTaiao.org.nz
- Climate and Health Alliance https://www.caha.org.au
- CleanMed Europe virtual conference 3-7 June 2024 (https://cleanmedeurope.org)
- CPD Match (<u>https://cpdmatch.co.uk</u>)
- NZ's Te Whatu Ora Sustainability Report: <u>https://www.tewhatuora.govt.nz/publications/sustainability-report-q1-fy23-24/</u>
- Geneva Sustainability Centre: <u>https://ihf-fih.org/what-we-do/geneva-sustainability-centre/</u>

Co-benefits of reducing wastage

- 1. Alternative spend for the health dollar
- 2. Improved health **better-managed health** conditions
- 3. Reduced secondary care costs
- 4. Reduced chance of overdose
- 5. Safer environment incorrectly dumped medication can reach waterways and eventually human food chain

SEDUM (Mid Central DHB)

- 6 of the top 13 most frequently returned medicines were preventative cardiovascular medications.
- And inhalers (esp preventative).
- Also medications known for side-effects eg. statins, salazopyrin
- Top 3 reasons: 'surplus', bereavement, medication changed
- "Frail Elderly"

Why does it matter?

- Contaminated medical waste undergoes more energy-intensive disposal.
- NZ contaminated waste is steam-sterilised in combined loads with sharps and pharmaceutical waste, then taken to dedicated 'sanitary' (fully lined) landfills.
- Autoclaved at high heat, under high pressure for an hour (400 kPa) using water/ steam heated to 145°C within a rotating steriliser
- In the past, medical waste used to be incinerated (with dioxin byproducts from the PVC plastics) but now is autoclaved under pressure. This is achieved by tumbling the waste around under pressure (400 kPa) using water/ steam heated to 145°C within a rotating steriliser

And we are the People...with Responsibility

- Healthcare sector 5.2% global emissions (the Lancet)
 - > 2 billion tons of CO2/year
 - More than shipping and aviation
- Professional duty to do better
- Our patients

...And a Huge Potential

Economic Clout of the healthcare sector:

10% NZ GDP

10.9% GWP

18.8% US GDP

Source: Data World Bank

Social Clout

The World's Most & Least Trusted Professions

Share of respondents considering the following professions untrustworthy in 2021



n = 20,000 respondents in 28 countries Source: Ipsos most trusted least trusted

EQS. GROUP

Doctors	58%	58%	64%	57%	55%
Scientists	57%	57%	61%	59%	59%
Teachers	52%	51%	55%	53%	52%
Armed Forces	42%	42%	44%	44%	439
Ordinary men/women	37%	37%	38%	38%	379
The Police	37%	37%	40%	38%	39%
Judges	34%	35%	37%	33%	329
Lawyers	30%	29%	30%	28%	25%
Television news readers	29%	28%	27%	25%	24
Polisters	27%	27%	25%	23%	23
Civil Servants	27%	26%	25%	23%	24
Clergy/Priests	25%	26%	26%	24%	21
Bankers	25%	24%	23%	21%	20
Journalists	24%	25%	23%	22%	21
Business Leaders	24%	23%	23%	22%	22
Advertising executives	18%	17%	15%	13%	13
Government ministers	17%	16%	15%	13%	12
Politicians generally	13%	12%	10%	10%	99

The most trustworthy professions as an average across all 31 countries surveyed. The numbers on the right are past years' surveys in 2022, 2021, 2019, and 2018. Photo credit: Ipsos.

Involved in Zero Carbon

- Mindset and Habit Change
- Infrastructure Change













If You're Worried About the Climate, Move Your Money

How you consume matters to the planet. How you invest does too.

