

# ECO EDUCATION SESSIONS KS2/3+ October – January 2025

We look to learn and make our voices heard once again as leaders gather for **COP29** in Azerbaijan - **November 11th – 24th** immediately followed by the **PLASTIC POLLUTION TREATY** in Korea - **November 25th – 1st December**.

## What's in the power point ?

To focus we begin with a quick refresh on Carbon and Water cycles and see how Melting Glaciers are playing a big part in the changing climate . Then we take a look at **COP** – what is it all about ? How long has it been going on ? Loss & Damage, Mitigation and Adaptation are the biggest issues. Your students can take part in the letter writing action and walk in the footsteps of Severn Suzuki at the Rio Climate Summit 32 years ago.

**In Part 2 PLASTIC POLLUTION TREATY** looks at how Oil production and Plastic Pollution are closely linked together.

The life cycle of plastics , where big Oil spend their profits and how a circular economy could work and make a difference - more actions here to help us make changes with Re-fill our Waste Recycling Awareness Projects and we take a look at in the circular economy.

Before then we have the opportunity to be inspired by this year's **EARTH SHOT PRIZE** on **November 7th** introduced by Prince William take a look at the amazing innovators, there are three in each of the five categories - Fix Our Climate; Revive Our Oceans; Build a Waste-free World; Clean Our Air and Protect & Restore Nature.

**Watch the trailer - <https://www.youtube.com/watch?v=CFmIpMUHyWE&t=149s>**

Then you can click the links to take a detailed look at the amazing solutions created by each of the finalists. . .

What's your favourites ? What would you like to explore ?

**This PowerPoint is designed for Key stage 2 up to Adult. Purple headers = KS2 + Green headers = KS3 + Actions are in Red**

**Some slides are repeated as they are relevant to both COP and Plastic Treaty**

I would love to be able to get round and deliver the sessions in person but its not physically possible ! I still have a few dates available if you contact me.

The cost is £250 for the full day, and includes £50 donation to Jesuit Services Cambodia for their Education + Ecology Program.

if you do use the PowerPoint please consider making a donation to them.

Thankyou for taking the time to read this. Best regards **Bob** Tel **07590513127** [rfturn@hotmail.com](mailto:rfturn@hotmail.com)



# SEASON OF CREATION

The theme this year is: 'To hope and act with Creation.'

Care for our common home  
... OUR FOOTPRINTS ...



Efforts by Households to reduce pollution and waste, and to consume with prudence, are creating a new culture. The mere fact that personal, family and community habits are changing is contributing to greater concern about the unfulfilled responsibilities of the political sectors and indignation at the lack of interest shown by the powerful.

[Laudate Deum 71]

# EARTH SHOT - Innovation Awards 6<sup>th</sup> November

<https://earthshotprize.org/winners-finalists-listing/?filter-year=2024>

## Fix Our Climate

**A.T.S USA**  
<https://www.youtube.com/watch?v=2vcFysRsKF4&t=5s>



Advanced Thermovoltaic Systems

**BUILD UP NEPAL Nepal**  
<https://www.youtube.com/watch?v=CqlqaiH4yGU&t=7s>



Build up Nepal

**EQUATIC USA**  
<https://www.youtube.com/watch?v=U3D-wQnpNUE&t=5s>



Equatic

## Revive Our Oceans

**HIGH AMBITION COALITION**  
<https://www.youtube.com/watch?v=KzSFHxQAh5k&t=116s>



High Ambition Coalition for Nature and People

**MI ALGAE UK**  
<https://www.youtube.com/watch?v=tS36Pt48dTU&t=5s>



MiAlgae

**COAST4C Australia**  
<https://www.youtube.com/watch?v=ks3gewSDhuk>



Coast 4C

## Build a Waste-free World

**FERMENT'UP France**  
<https://www.youtube.com/watch?v=VQzYd9CyKLA&t=6s>



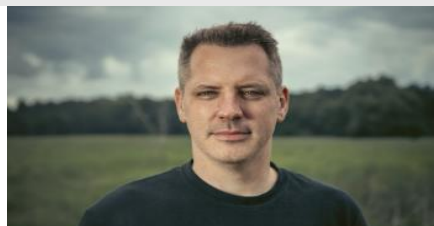
Ferment'Up

**KEEP IT COOL Kenya**  
<https://www.youtube.com/watch?v=-H21tdbZ2Rs&t=1s>



Keep IT Cool

**NATURE FIBER WELDING USA**  
[https://www.youtube.com/watch?v=oSTdvj\\_J8NY&t=2s](https://www.youtube.com/watch?v=oSTdvj_J8NY&t=2s)



Natural Fiber Welding

## Clean Our Air

**MYCL Indonesia**  
<https://www.youtube.com/watch?v=XRF34tXjrZ0&t=3s>



MYCL

**GAYO Ghana**  
<https://www.youtube.com/watch?v=ZGq9W7L-HjE&t=7s>



GAYO, Green Africa Youth Organization

**D.LIGHT Kenya**  
<https://www.youtube.com/watch?v=4tLfdyCiGbw&t=1s>



d.light

## Protect & Restore Nature

**NATURE METRICS UK**  
<https://www.youtube.com/watch?v=FkMCZR8M930&t=10s>



NatureMetrics

**PROTECT NATURE Ecuador**  
<https://www.youtube.com/watch?v=Dif6kibQrqq&t=2s>



Amazon Sacred Headwaters Alliance

**CONSERVATION Kazakhstan**  
<https://www.youtube.com/watch?v=PZ2XcC7E8P8&t=15s>



Altyn Dala Conservation Initiative



# TRANSITION Safe Ambition sing “Its about time”



4 min 24s

<https://www.youtube.com/watch?v=buttg8DlMA0>

In Laudato Si we hear Pope Francis say -

“ The Earth, our home is beginning to look more and more like a huge pile of filth “



He calls on us to “ Hear the Cry of the Earth and the Cry of the Poor”



All over the world we see ...  
**THE CRY OF THE EARTH and THE CRY OF THE POOR**



# *Young People Demand Change*

We all have a role to play in transforming and caring for our common home, **COP29** and **The Plastic Pollution Treaty** brings opportunity to put pressure on those with the power to make changes.

**ACTION - COP29** 11<sup>th</sup> November -24<sup>th</sup> November

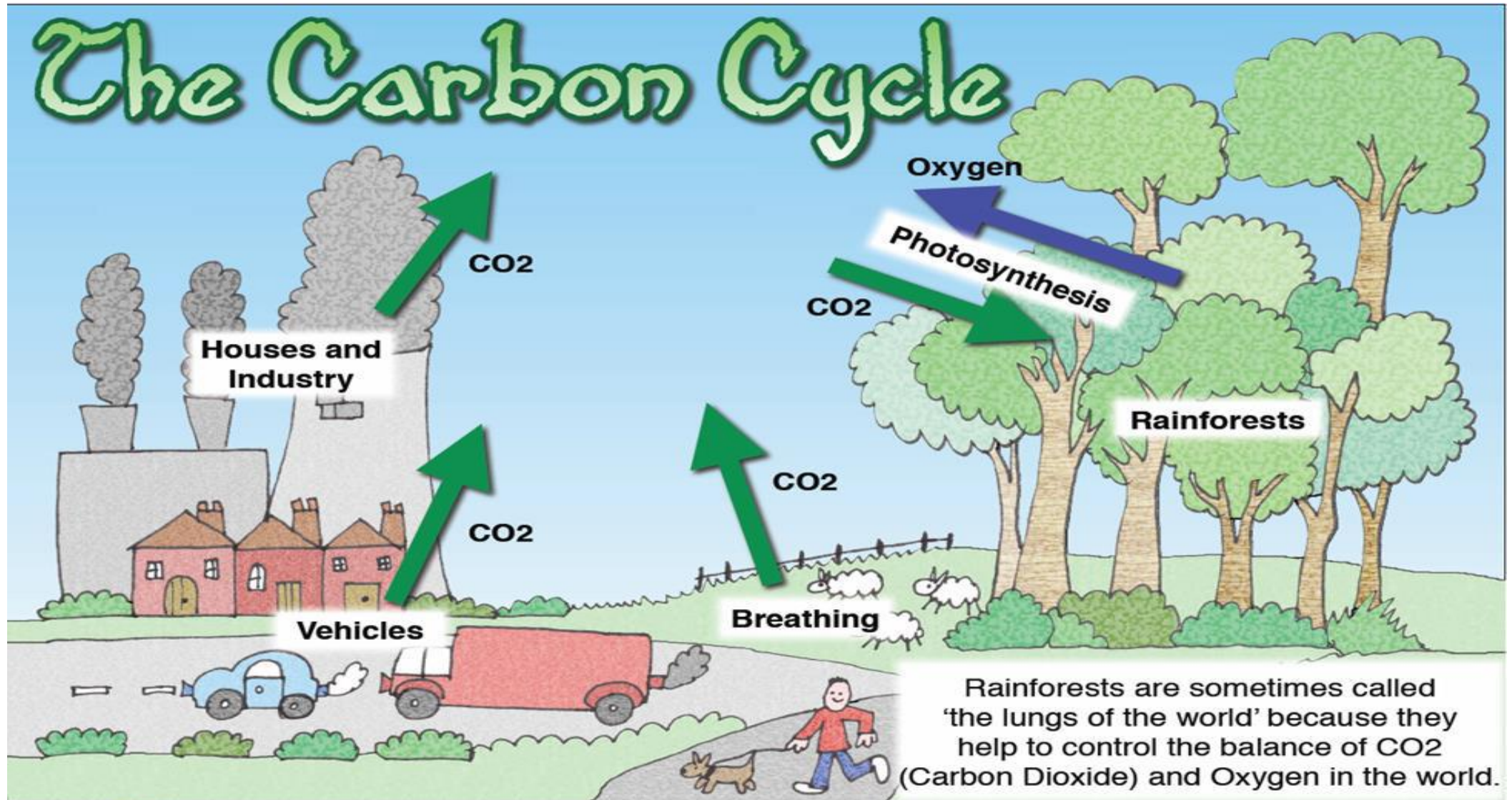
The annual meeting of countries to find ways to stop the increase in global warming

**ACTION - Plastic Pollution Treaty** November 25<sup>th</sup> – 1<sup>st</sup> December

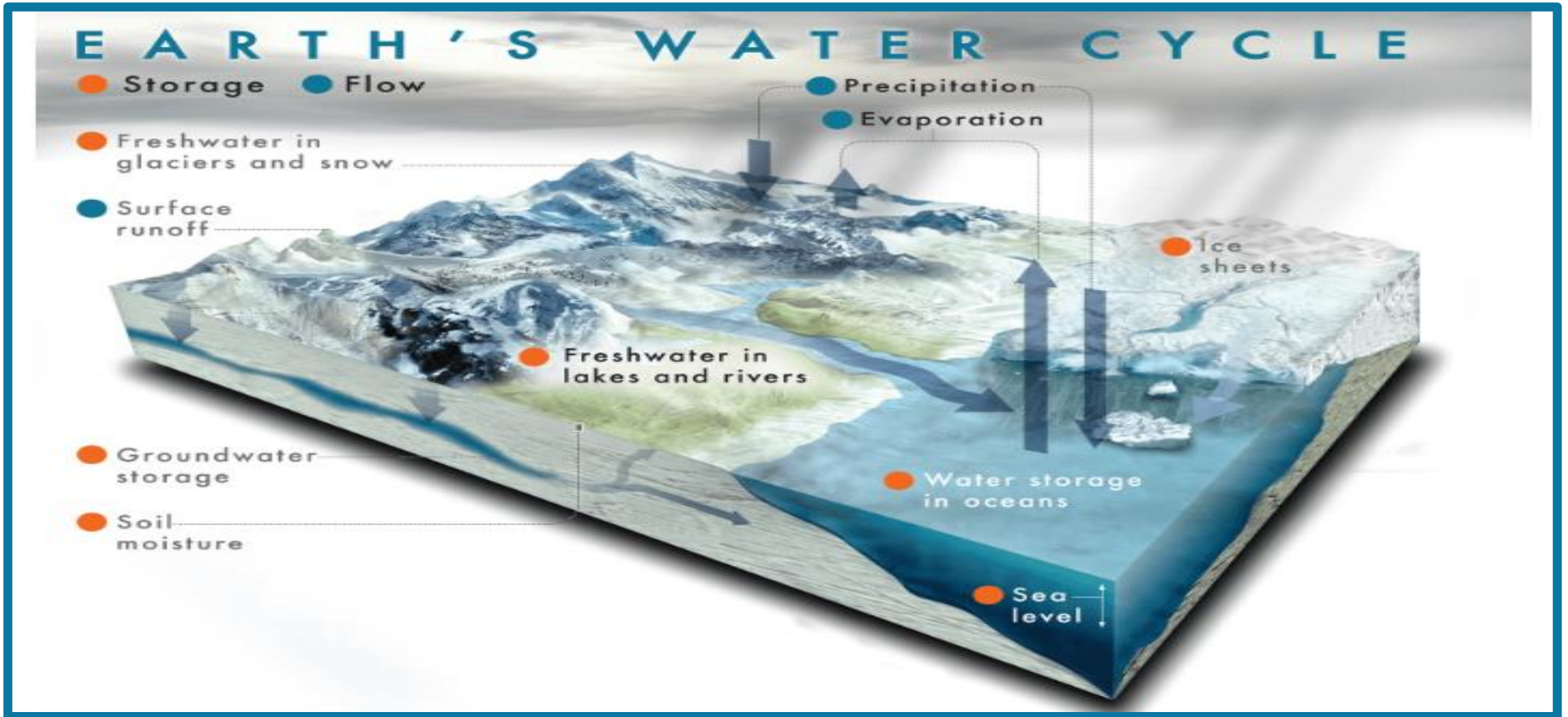
This will be the fifth and final meeting as countries seek to agree on a way to reduce plastic pollution



# Refresh on the Carbon and Water Cycles







The Sun's heat causes glaciers and snow to melt into liquid water. This water goes into oceans, lakes and streams. Water from melting snow and ice also goes into the soil. There, it supplies water for plants and the groundwater that we drink.

Snow falling on a glacier during winter months usually replaces any water that melts away in the summer. However, due to earth's overall warming, most glaciers today are losing more ice than they regain, causing them to shrink over time.

WHEN ICE CAPS and GLACIERS MELT - they change the way water flows around our planet  
So, we see lots of rain and flooding and drought in Africa and other hot countries.  
In UK the increase in rainfall is affecting our food chain . . .

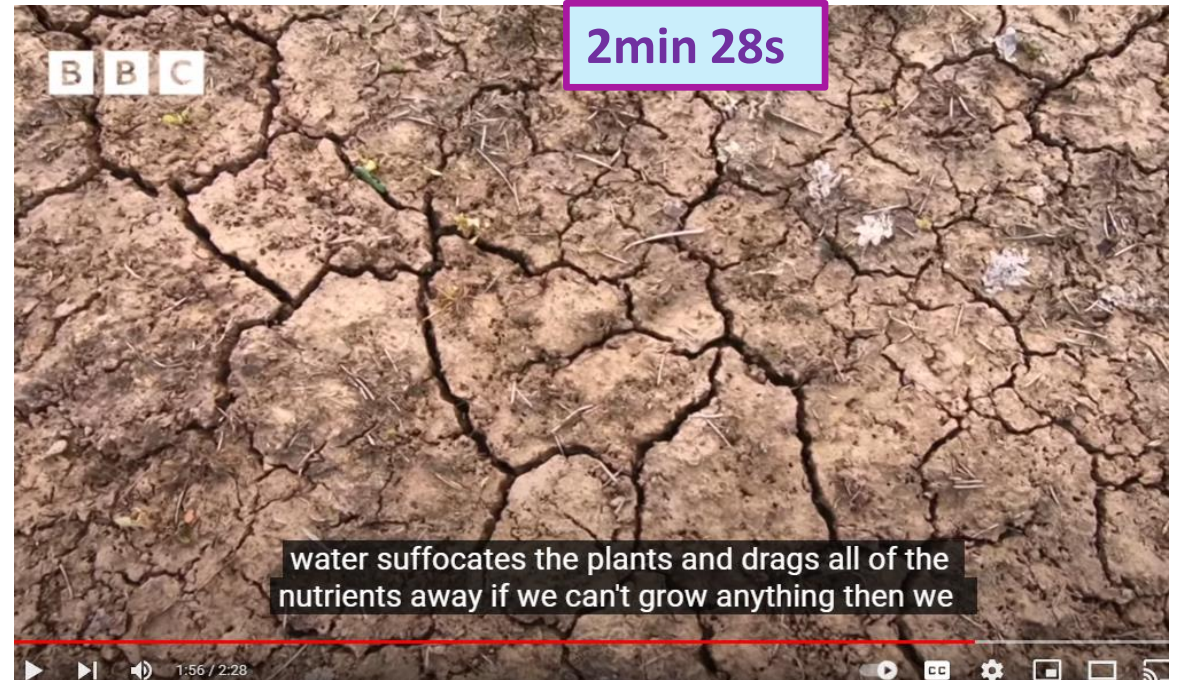
<https://www.youtube.com/watch?v=JjlkzRG9YI8>

1min 50s



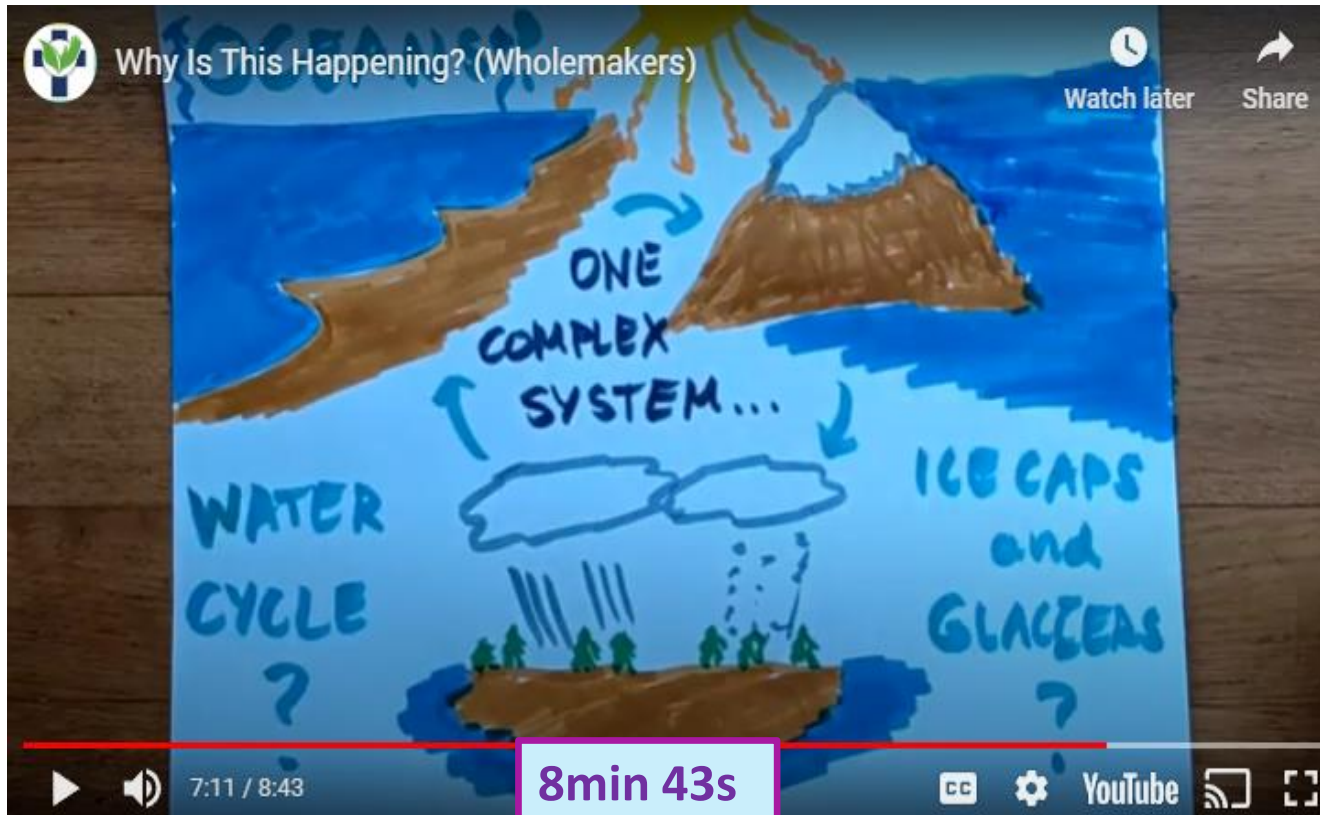
[https://www.youtube.com/watch?v=r\\_XqGqhFs-o&t=78s](https://www.youtube.com/watch?v=r_XqGqhFs-o&t=78s)

2min 28s





# Before we look at the Oil and Plastic pollution problem lets re-cap on the impact caused by increase of CO2 and the melting glaciers



<https://www.youtube.com/watch?v=wl2KSABJLyE&t=483s>

3:47 > 5:20

This video is part of WHOLEMAKERS - a resource from <https://catholicclimatecovenant.org/programs/youth-and-young-adults/wholemakers/> explores the intersection of Catholic faith, integral ecology and social action – created for young adults by young adults.

## CRITICAL IMPORTANCE OF HINDU KUSH HIMALAYAS

- 8 Countries spanning from Afghanistan to Myanmar, and encompass over 4.2 million sq. km.
- 10 Major river systems in Asia are its source including the Indus, Ganga and Brahmaputra.
- 240 Million mountain dwellers and 1.9 billion people living downstream.
- 50.3 Million population distributed across its 11 mountain states, highest among the 8 countries.
- Researchers warn of more political unrest in the region due to conflicts over natural resources, especially river water.

testbook

1800 833 0800 @testbookdotcom

**COP29 11<sup>th</sup> November -24<sup>th</sup> November**

**The annual meeting of countries to find ways to stop climate change**



THEY WILL BE TALKING ABOUT WHO WILL PAY FOR ALL THE **LOSS AND DAMAGE** CAUSED BY FLOODING  
**ALSO MITIGATION** = actions that need to be taken **BEFORE** to reduce greenhouse gas emissions  
**AND ADAPTATION** = actions taken **AFTER** to help communities adjust to the impacts of changing climate.

4min 58s

<https://www.youtube.com/watch?v=GnaxpPZ4DKw>



**COP** for a bit of history . . . **1979** first climate conference in Geneva.  
Berlin **1995** the first **COP** was held. Each year its in a different country .  
Discussions are all about the **PROBLEMS** and the **SOLUTIONS** of the Climate Crisis

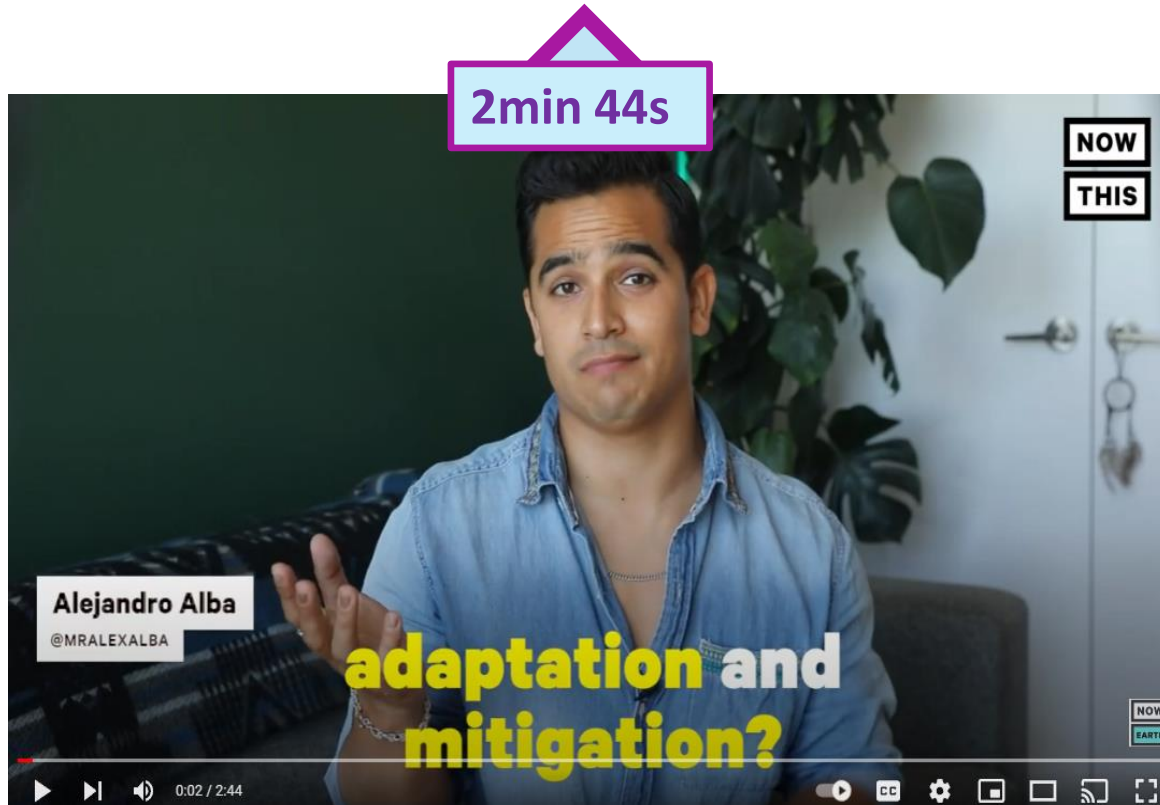


**COP** = Conference of Parties or all the countries who signed up = nearly 200

# COUNTDOWN TO COP – CLIMATE JUSTICE IN THE HEART OF THE NEGOTIATIONS

129 of 154 developing countries are working on National Adaptation Plans, but lack the access to finance to deliver them > richer countries need to make greater contributions to enable adaptation action.

<https://www.youtube.com/watch?v=2vqPfY7LjP8&t=70s>



Lets hear from FATOU JENG [Gambia] “We need to remind everyone that the planet is not waiting . . We need to put pressure on our leaders to PUT THE POLICIES THEY AGREE INTO ACTION “

<https://www.youtube.com/watch?v=7UmtcnJTSHQ&t=3s>

13 min 04





# DECIDING WHO SHOULD PAY

## Climate change funding talks are stuck ahead of COP29 summit

Countries are also at odds over who should contribute.

There are about two dozen, long-industrialized countries currently obliged to contribute to U.N. climate finance. That list was decided during U.N. climate talks in 1992, when China's economy was still smaller than Italy's.

These countries want China - now the world's biggest CO2 emitter and second biggest economy - and the oil producing Middle Eastern countries to contribute for the new goal.

However, the Arab countries and China firmly oppose this idea, with Beijing reiterating China's status as a "developing country" under the U.N. climate convention.

Neither camp of countries has compromised on who should pay . . [ extract read full article below ]

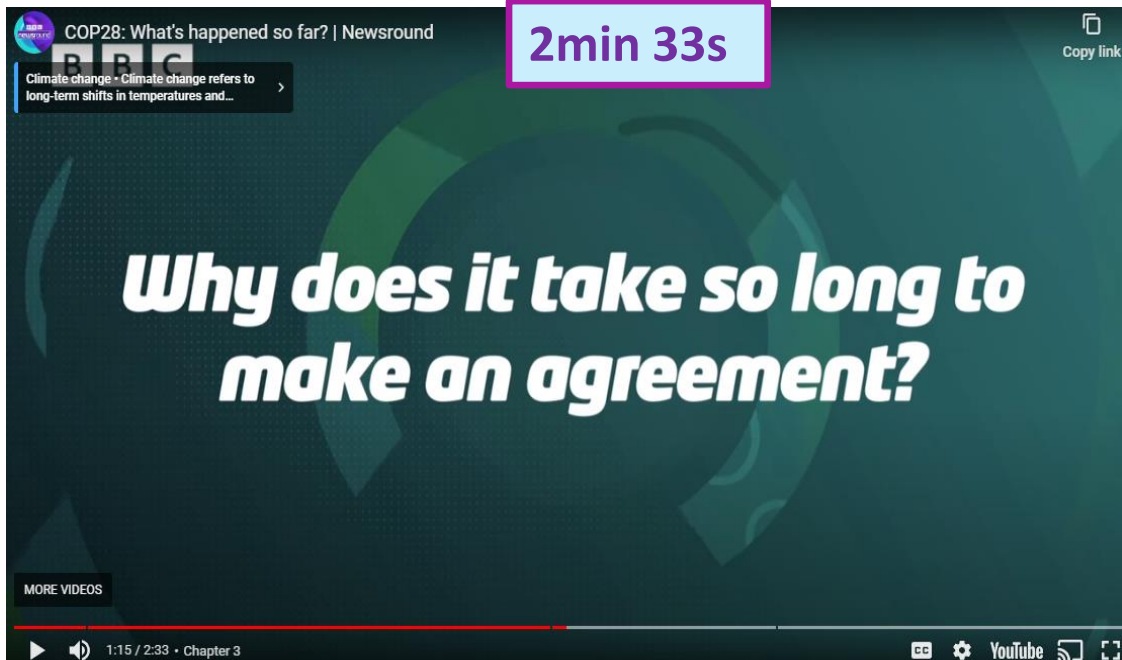
By [Kate Abnett](#) June 13, 2024 9:33 PM GMT+1 Updated 3 months ago

[https://www.reuters.com/business/environment/climate-change-funding-talks-stuck-ahead-cop29-summit-2024-06-13/#:~:text=BONN%2C%20June%2013%20\(Reuters\),alone%20how%20to%20split%20it](https://www.reuters.com/business/environment/climate-change-funding-talks-stuck-ahead-cop29-summit-2024-06-13/#:~:text=BONN%2C%20June%2013%20(Reuters),alone%20how%20to%20split%20it)

# ITS TAKEN 45 years to agree a plan to phase out fossil fuels

- Big Oil Countries always delay ! – Last years Newsround report & Paris Agreement in 97sec

<https://www.youtube.com/watch?v=KARbYKxcmpA&t=6s>



<https://www.youtube.com/watch?v=qfAeoBGS3Ek>



Let us be under no elusions . . the Fossil Fuel companies and Big Oil producing nations will be continuing to block and frustrate these most important negotiations.

WHY ?? I hear you ask – because they are all about making money and don't care about what's happening to our climate and the pollution we see everywhere.



# LOSS AND DAMAGE will be high on the agenda at COP29

Moses Alexander tells us that the Fossil Fuel Producers need to pay up - they make \$2.8billion profit each day !

<https://www.youtube.com/watch?v=2b68EDa2XjY>



2024 [https://www.youtube.com/watch?v=Sw\\_3CmzDAVw](https://www.youtube.com/watch?v=Sw_3CmzDAVw)

<https://edition.cnn.com/2022/08/31/asia/pakistan-floods-forms-inland-lake-satellite-intl-hnk/index.html>

Pakistan flooding from melting glaciers – NEWS 2022

<https://www.youtube.com/watch?v=BM9-Q8xnrEU>



Pakistan wants compensation for its floods. Photographer: Abdul Majeed/AFP/Getty Images

Oil companies are set to lose out as petrol + diesel are replaced by electric vehicles - this means they won't make as much money – So to protect their profits they want to make more and more plastic packaging and products !!

<https://www.youtube.com/watch?v=iO3SA4YyEYU&t=14s>

## FOSSIL FUEL FACT

OIL COMPANIES MAKE  
2.8b profit every day !



4min 07s

THE PLASTIC MACHINE



The Story of Plastic (Animated Short)



# LIFE CYCLE OF PLASTICS

FoodPrint,



Greenhouse gases including CO<sub>2</sub> and methane



**1** oil production & fracking

**2** petrochemical byproducts

**3** PLASTIC

**4** recycling  
**9%**

**7** environmental pollution

**5** incineration  
**12%**

**79% combined**

**6** trash landfill



## FOOTY FOOTPRINT FACT

**WAGES PER WEEK**  
**Ronaldo £3.29 million**



?? Cristiano knows what it feels like to grow up with very little. His father was a gardener and his mum was a cook. Growing up, he and his siblings shared a single room. That's what probably makes him the generous philanthropist he is today.

All his footballing skills along with his nature of giving to those in need is what makes him the enigmatic figure he is today.

<https://www.90min.com/posts/highest-wages-saudi-pro-league>

## OIL MONEY . . . Saudi Arabia League Top players

**WAGES PER WEEK** Ronaldo £3.29 Million ! Gasp !

Neymar and Benzema £1.65 Million

Just these 10 players total per year is £536 Million - over half a billion.

**How much are Saudi Arabia putting in the Loss and damage fund ??**



Manager of Al Ettifaq Steven Gerrard £15.2m year – **ALL TAX FREE !!**

**<< In My Pocket son !! >>**

© Statista 2024



# THE VOICE OF YOUTH INSPIRES – 12 year old SEVERN SUZUKI 1992

Climate Summit in Brazil, she was given some time to talk to all the leaders - taking the opportunity with both hands she delivered this very powerful speech. . . .



<https://www.youtube.com/watch?v=oJJGuIZVfLM>

Her 542-word speech, jammed together in the taxi with her friends, was hailed as “six minutes that silenced the world”, and she was called the “voice of a generation”. Al Gore called it the best speech of the summit, and today it has been watched millions of times and is cited as exemplary essay-writing.



*The voice of youth can be so profound. It hits you hard.”*

# << ACTION >> COULD YOU WRITE A SPEECH LIKE SEVERN'S ?

## The effectiveness of Severn's speech.

Severn made the right persuasive choices –

First of all she took into account the type of audience.

Her word choices proved that she appealed to adult listeners, she emphasized that the listeners are those who should make a difference.

Severn used hypothetical examples, comparisons and analogy.

She used different independent points to build the picture

She compared her life with other children's lives and contemplated her hypothetical life in less privileged conditions.

References to her age made the speech more expressive and more meaningful. Adults at the conference had to face the fact that children were concerned with serious issues.

She made the audience understand that adults were stealing childhood from children.

They saw that the problems discussed were really important as even children had to get ready for such an important event and deliver a speech just like all the adult representatives.

All these made her speech expressive and inspiring.

Dear Mukhtar Babayev . .



Mukhtar Babayev COP29 President

## When you write use -

Emotive language

1<sup>st</sup> person plural inclusive 'we'

Use of 2<sup>nd</sup> person 'you'

Anecdotes

Imperative verbs

Direct speech

Use of facts and figures

Rhetorical questions

Repetition

Abstract nouns



## CREATIVE WRITING EXERCISE Letters to President Al Jaber COP28 from yr 5/6

Dear Sultan Al Jaber,

Why do you tell us to live like this, as you yourself do not? I used to like going to forests and climbing trees, but later cut down. I loved run in fields with my sister's dog, but they built houses. Why do you spend hundreds of millions on football players? We have lost 429 millions, but we could of saved money and stop global warming to save the people in Pakistan because the damage is over 40 billion.

If we stop global warming the glaciers on Mount Everest will stop melting and the people in Pakistan will be saved from the floods. Us our selg are to greedy, we do whatever we can to get money.

Dear, Cop 28 Sultan Al Jaber,

We have been studying and watching Cop 28, we have realised how frustrating it is for children in Cop. There was a 12 year old girl who wrote or says to say 542 words about Cop and trying to encourage people to make the world a better place even though she was 12. There was a really big crowd in front of her as well. The top 10 footballers in the Saudi Pro League are in total earning £600 million pounds a year and Ronaldo earning 3.6 million pounds a week and £22 pounds a second.

Dear Sultan Al Jaber,

I'm here to say that we need to stop pollution on the planet Earth. I'm only a child so I cannot change much but we can't keep polluting the planet. Think about the gas stations like Shell, BP, Texaco. They earn loads of money, probably billions of dollars in profit. All that money can be going to helping people like in Pakistan. For all the floods in Pakistan will be worth about \$40 billion. Instead of helping these people you give these footballers money like Cristiano Ronaldo and Kevin De Bruyne. The top ten Saudi league footballers earn around \$600m all together. That is loads of money.

Dear Sultan Al Jaber,

We have watched a few videos that have showed that we need to help save the animals and people having clean water, phase out not phase down fossil fuels.

I think half of the footballers money should go to a charity because the football don't use a lot of that money so some should go to charities and to help people have food and water and the poor spread the word! Use the plastic properly.



## Sample Letters for President Al Jaber COP28 from yr5/6

Thursday 14th December 2023.

Dear Sultan Al Jaber,

Please stop! It is unfair on poor countries or cities that they are not causing climate change. We are small like them & war is going on they are just spending all the money on war we should spend it on climate change and stopping Fossil Fuels down! It gets it is unfair for us and people in ghazal of Pakistan and Mount Everest is sinking so please stop all of us of doing the wrong thing it is just not prudent and stupid.

Dear Cop 28! (Sultan Al Jaber!)

- We have been watching and studying COP 28, and we are so frustrated that gas stations are making so much money and not helping children that are starving, and eating gross food that is hard to eat, or squishy. We are so upset, but that wealthy people like you are so greedy to help the poor people, and yet someone who is poor is willing to help people on the street even though the child is poor, and is starving and cold. We are all so mad, because the Saudi pro league top 10 football players are getting 600 Million pounds per year. The 429 Million pounds that you gave to stop the Pakistan flood is still not enough to stop the flood, you need 40 Billion and you only gave  $\frac{1}{100}$  of the money to try stop the flood.

Dear Sultan Al Jaber,

I have seen the COP 28 and have realised how hard it is for the less fortunate to live due to climate change. I would like to make the world a better place by stopping climate change and fossil fuels. I wish to help the people most affected as they have done nothing or very little wrong. The boss and damage fund think that they have enough but no they do not have enough they need 100 times just to stop one some one flood! In Saudi Arabia the top ten footballers are paid millions in total they are all paid 600 million! We really could use that later to stop climate change. Remember when you went to school in every class you were taught to share not be greedy, but to fight and to help others. Why are we not doing what we have been taught? Why does this not apply to you?

Dear Sultan Al Jaber

I hope the rich and people who have homes will give or do something in the future after watching all the rich videos we have watched off Cop 28 how powerful the speakers were and how serious they were unlike over people who are rich who don't care about that they just care about their family but so at the end of the day we are all family as a world and that is why we all look after it not just one person and some need so more help than others like footballers getting millions a week and some people getting no money a week unlike Ronaldo, Messi, Benzema, & Viri. JR, Eden, Bellingham all them are getting millions a week maybe they will have to do something with it now not in the future then we can all live happily after.



# BAD SCIENCE: A.I. used to target kids with disinformation

## A.I. Carbon Footprint



AI-powered chatbot can use up to ten times as much energy as Google search !



3 min 00s

<https://www.bbc.co.uk/newsround/av/66809902>

## A.I. Water Footprint



Data centres in the United States use about 7,100 litres of water for each megawatt-hour of energy they consume !

YouTube channels that use AI to make videos containing false "scientific" information are being recommended to children as "educational content".

Investigative BBC journalists working in a team that analyses disinformation, information that is deliberately misleading and false, found more than 50 channels in more than 20 languages spreading disinformation disguised as STEM (Science Technology Engineering Math's) content.

Examples of conspiracy theories are the existence of electricity-producing pyramids, the denial of human-caused climate change and the existence of aliens.

Our analysis shows YouTube recommends these "bad science" videos to children alongside legitimate educational content.

[Newsround](#) Published 14 September 2023

<https://theconversation.com/power-hungry-ai-is-driving-a-surge-in-tech-giant-carbon-emissions-nobody-knows-what-to-do-about-it-233452>

# GOOD NEWS !! Innovations and Projects for energy alternatives WIND, SOLAR + TIDAL

<https://www.youtube.com/watch?v=xyVkuFXqLPw>

4 min 17

**MERSEY  
TIDAL  
POWER**



2 min 41

<https://www.youtube.com/watch?v=fpG4FH7GoqM&t=136s>

<https://www.youtube.com/watch?v=K2HZRfzibeM&t=10s>

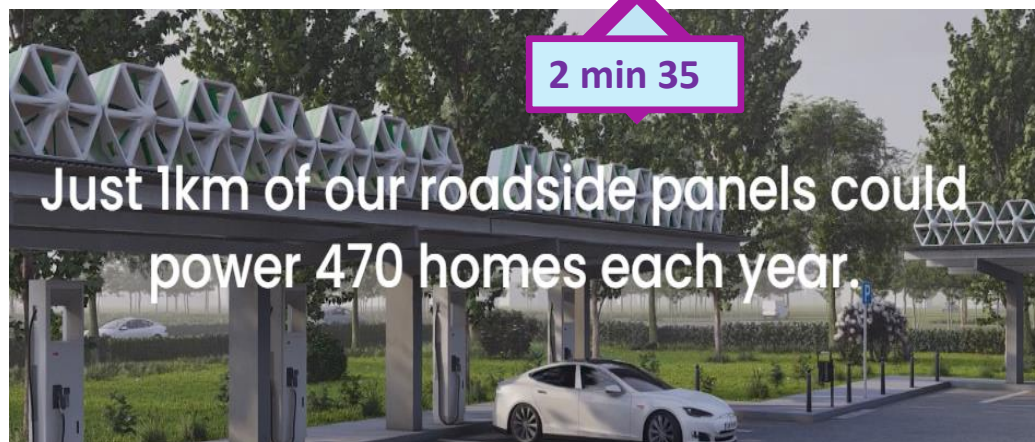
2 min 02s



<https://noviocean.energy/>

<https://www.youtube.com/watch?v=zAziCz--JPw>

2 min 35

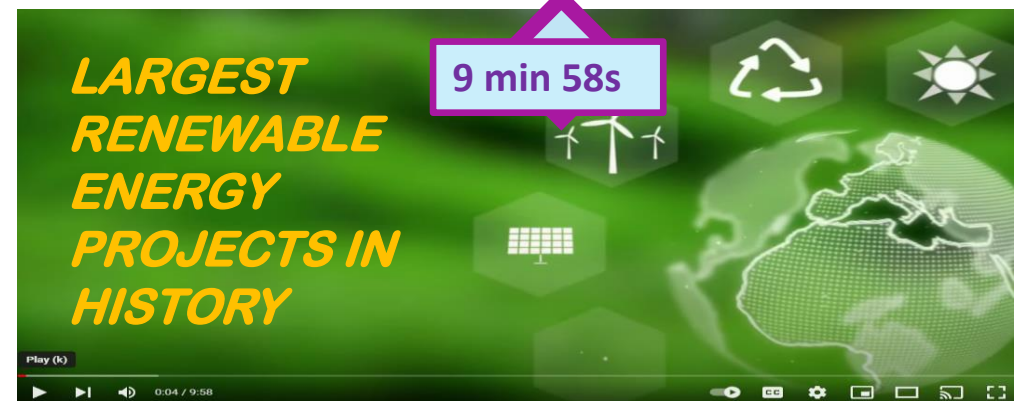


Just 1km of our roadside panels could power 470 homes each year.

<https://www.katricktechnologies.com/>

<https://www.youtube.com/watch?v=yXXb5zoAYBQ>

9 min 58s



<https://www.youtube.com/@epicevent>





**We must move beyond the mentality of appearing to be concerned but not having the courage needed to produce substantial changes -  
Laudate Deum 56**

# TRANSITION Safe Ambition sing “Its about time”



4 min 24s

<https://www.youtube.com/watch?v=buttg8DlMA0>



# PLASTIC POLLUTION TREATY

**ACTION** - Plastic Pollution Treaty November 25<sup>th</sup> – 1<sup>st</sup> December

This will be the fifth and final meeting as countries seek to agree on a way to reduce plastic pollution – what can we do to help ?



# *Young People Demand Change*

## **OUR FOOTPRINTS**



**Imagine an iceberg....**

The tip is our Plastic Footprint  
We can see it - We are concerned - We want to do something about it.

Below the surface unseen but just as  
important are our Water and Carbon Footprints.  
**ALL THREE ARE LINKED TOGETHER!**

Reduce - Reuse - Recycle - Refuse -  
Repair - Regift - Recover + Re-Fill +  
**Rethink !**





Water-to-Go<sup>Ltd</sup>

## WHAT IMPACT DOES DRINKING BOTTLED WATER HAVE ON THE ENVIRONMENT?



Over 70 billion single use plastic water bottles are consumed annually in the US and Europe alone.

\*Source: National Geographic



**2** For every 1 litre of bottled water in your local supermarket, 3 litres have been used to make and ship it to you.



Fill up your bottle with oil to a fifth of its capacity to witness how much oil is used in manufacturing the bottle and shipping it to you!



**6** Bottled water is commonly more expensive than petrol or diesel, at £1 or €1 per 50 cl bottle, compared to petrol and Diesel at £1.40 or €1.40 per litre!



**4** By consuming bottled water you are contributing to killing over 1 million sea birds and 100,000 mammals annually, who die by ingesting or becoming trapped in plastic waste.

**5** Unless it has been incinerated, every piece of plastic ever made still exists; Reason? Plastic takes over...

**500 YEARS TO DEGRADE**



Help reduce plastic waste and preserve natural resources by using a Water-to-Go reusable bottle and filter!

Get the taste and convenience of bottled water at a fraction of the costs, where you are certain of the quality by filtering it yourself.

FOR MORE INFORMATION VISIT [WWW.WATERTOGO.EU](http://WWW.WATERTOGO.EU)



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## FOSSIL FUEL FACT

OIL COMPANIES MAKE  
2.8b profit every day !



4min 07s

THE PLASTIC MACHINE



The Story of Plastic (Animated Short)



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FoodPrint,



Greenhouse gases including CO<sub>2</sub> and methane



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## OIL MONEY . . . Saudi Arabia League Top players

**WAGES PER WEEK** Ronaldo £3.29 Million ! Gasp !

Neymar and Benzema £1.65 Million

Just these 10 players total per year is £536 Million - over half a billion.

How much are Saudi Arabia putting in the Loss and damage fund ??



Manager of Al Ettifaq Steven Gerrard £15.2m year – **ALL TAX FREE !!**

<< In My Pocket son !! >>

© Statista 2024



**Big Oil & Big Plastic** . . Extractors and Producers dictate our lives and pollute our planet !  
In our country we have a choice, but the poor countries in the Global South are trapped in the plastic cycle. The first of our eco activists **Tiza Mafira** shows us around Jakarta .

<https://www.youtube.com/watch?v=PBhakv9DQFQ>

4min 07s



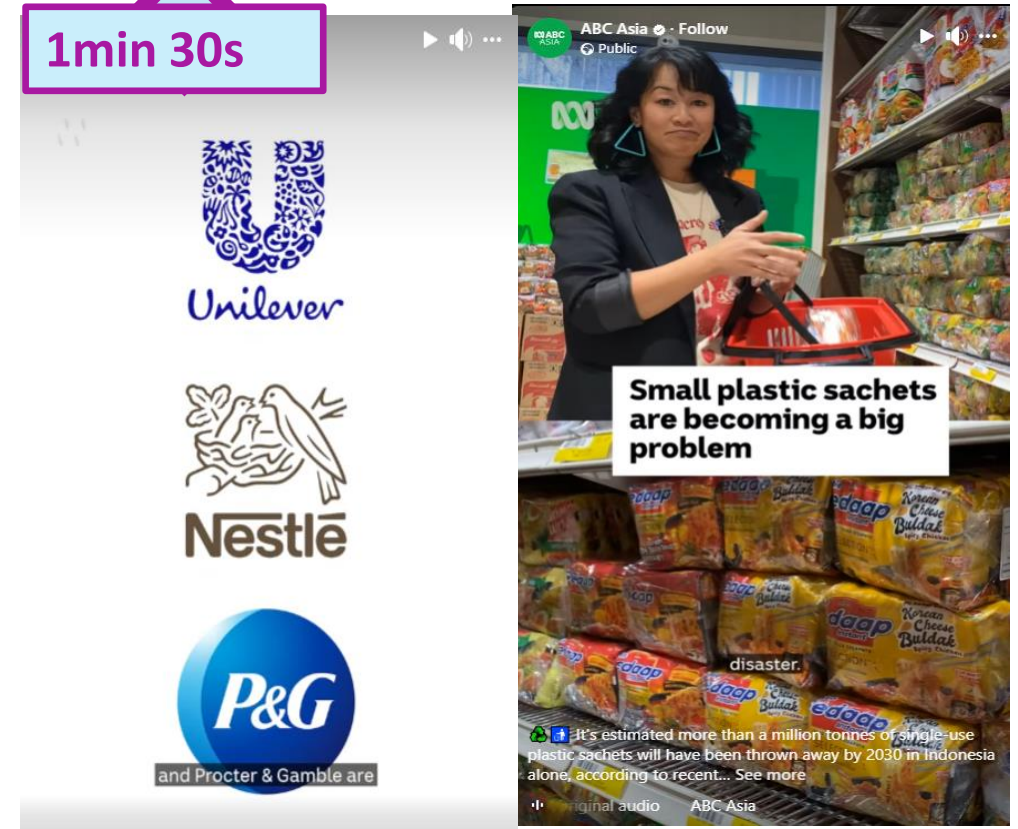
PLASTIC POLLUTION ALERT

**855 billion sachets  
sold each year**



<https://www.facebook.com/reel/1651055858974101>

1min 30s



**Let's meet Mr Rob Greenfield** - Rob is an American who was so concerned about how much rubbish people are throwing away that he wore a special suit allowing him to wear all the rubbish from everything he used or ate for one month !





He discovered that the average person creates 4.5 pounds of rubbish every day that's 135 pounds a month = 61 kg = 9.5 stones !  
.....That's as much as some people weigh ! ..... every month of every year !



# NUMBER CRUNCHING

## 9 Billion

Tonnes of plastic produced since 1950  
- only 9% has been recycled

## 8 Billion

World population 2023 = One tonne for each person

## 460 Million

Tonnes per year - without action this will **TRIPLE** by 2060 !

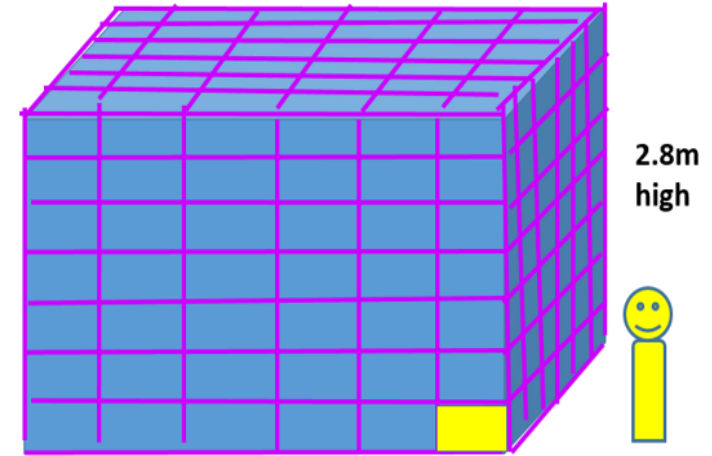
## 5 Million

Tonnes used In the UK every year - half of this is single use packaging !!

***BE PART OF THE SOLUTION - NOT PART OF THE POLLUTION !!***  
***You are the first person who can do something positive with your plastic waste***

1 tonne of compressed plastic packaging = 1000kg

$$6 \times \text{BBB} = 3.97 \text{ kg} \quad 60 \times 40 \times 15 = 252$$



3.6m long

Remember this is tightly compressed !!



# MAKING YOUR BREAD BAG BLOX

- 1** All plastic we use needs to be clean and dry with no food particles
- 2** Get two bread bags and put one inside the other to make it strong  
Be sure that the two bags stay together as you fill it up.
- 3** Fill it up with all your single use plastic pushing it well right down into the corners.  
- You don't need to cut up the plastic unless it's a really big piece
- 4** When it starts to get full squash it down with both hands or your knee to get all the air out .  
Make it solid as you can **AS SOLID AS A BRICK !** .
- 5** Push in some more plastic and remember to keep the last quarter empty so you can close it off by tying or seal it with some tape.
- 6** Take to supermarket collection point

PLASTIC READY FOR FILLING



FILLING THE BAGS



PUSH RIGHT IN PACK TIGHT



SQUEEZE OUT ALL THE AIR



CLOSE TIGHT TIE OR TAPE



Back to the Supermarket





**IF YOU HAVE A PLAIN CARRIER BAG YOU CAN WRITE YOUR MESSAGE ON  
BBB WHEN FINISHED – Try To Make It Into A Rhyme !**

**PLASTIC >>**

More pollution every day  
Stop killing our planet in  
this way ..

We need a Proper  
Solution to all this  
Pollution

Time to get drastic -  
**NO MORE VIRGIN  
PLASTIC**

**PLASTIC IS  
EVERYWHERE –  
ITS JUST NOT FAIR**

**WE ALL AGREE**  
Keep Plastic Out Of  
The Sea!

**NO MORE  
INCINERATION**  
stop destroying  
civilisation

**SAY YES TO  
HYDRO PRT**

We hear some news reports of plastic being shipped abroad to be burnt ! Also how Incineration is as bad as burning coal ! This isn't recycling because it causes more CO2 pollution.  
**ACTION >> paint a sad emoji fire face on your Bread Bag Block and take to the supermarket see slide 59**

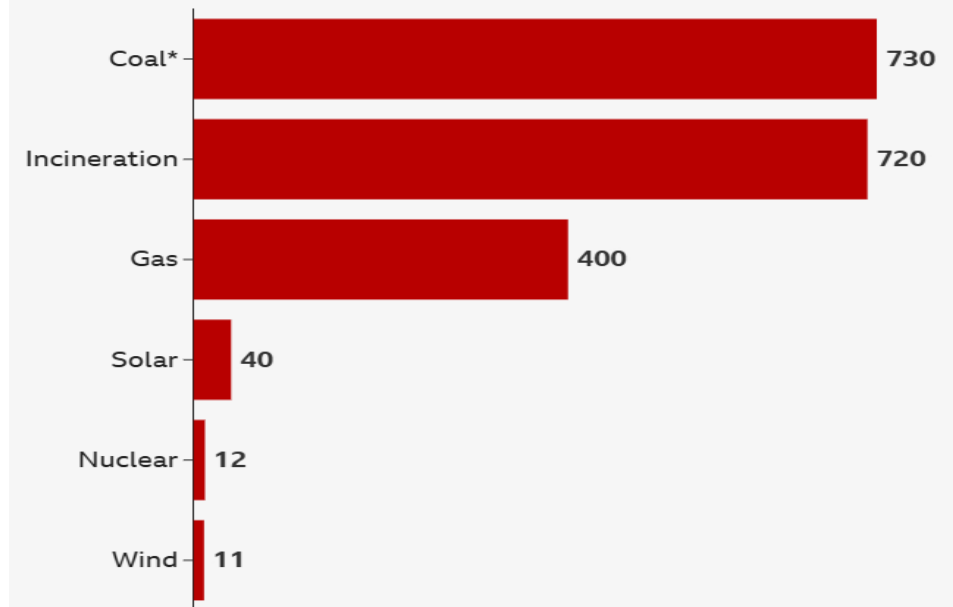
***NO MORE  
INCINERATION  
Stop destroying  
Our civilisation!***



Burning household rubbish now UK's dirtiest form of power, BBC finds - BBC News

### Incineration and coal produce the most CO2 per unit of energy

Average carbon dioxide equivalent emissions produced per kilowatt-hour (gCO2e/kWh) in 2023



Source: IPCC and BBC

Note: Values represent global averages for each fuel source. Incineration is for UK only. \*The UK no longer generates electricity from coal.

**BBC**

### Everyday Plastic

**EVERYDAY PLASTIC** About Campaigns Talks Blog Donate

[READ THE SUMMARY](#) [READ THE FULL REPORT](#) [SIGN THE PETITION](#)

**The Hard Truth About Soft Plastic**

How supermarket soft plastic take-back schemes are misleading customers

Two bags of soft plastic. The bag on the left is white with a blue recycling symbol and the text 'Recycle flexible plastics here'. The bag on the right is white with a large blue 'R?' and a question mark, indicating a question about the recycling process.

Ever wondered what happens to the soft plastic that you return to the supermarket for recycling...?



Use felt tip pen to write your message on the bag and then put your BBB inside – adjust so your message can be seen - Finally weigh your block and write on the weight –



**WELL DONE - That's how much you've kept away from landfill or incineration !!!**

**.... YOU COULD ALSO WRITE A LETTER TO THE SUPERMARKET MANAGER ASKING THEM WHERE THE SOFT PLASTIC GOES AND WHAT IT WILL BE MADE INTO ?**

USE THIS LINK TO FIND YOUR  
NEAREST SUPERMARKET

<https://www.recyclenow.com/recycle-an-item/plastic-bags-and-wrapping?postcode=BB6%207JQ#locator>

## Find a local recycling facility

[< Back](#)  [12 Filters Applied](#)

Nearest 30 places matching 12 filters [Map](#)

<b>Co-op Wilpshire - Whalley Road</b> 799 Whalley New Road, Blackburn, BB1 9PH 1.81 miles 13 materials All filters	<b>Aldi Montague Street</b> Montague Street, Blackburn, BB2 1EH 2.03 miles 13 materials All filters
<b>M&amp;S Blackburn</b> 43 King William Street, Blackburn, BB1 7DN 2.27 miles 13 materials All filters	<b>Morrisons - Blackburn Railway Road</b> Railway Road, Blackburn, BB1 5AZ 2.45 miles 3 materials 2 of 12 filters
<b>Morrisons Railway Road</b> Railway Road, Blackburn, BB1 5AZ 2.47 miles 13 materials All filters	<b>Tesco Superstore Blackburn</b> Hill Street, Lancashire, BB1 3HF 2.95 miles 13 materials All filters
<b>Aldi Whitebirk</b> Unit 14 Peel Centre, Whitebirk, Blackburn, BB1 3HT 3.18 miles 13 materials All filters	<b>Co-op Livesey Branch Road</b> Livesey Branch Road, Blackburn, BB2 4QL 3.26 miles 13 materials All filters
<b>Co-op Rishton - Harwood Road</b> 2 Harwood Road, Blackburn, BB1 4DJ	<b>Morrisons Great Harwood</b> Queen Street, Great Harwood, Blackburn, BB6 7AL

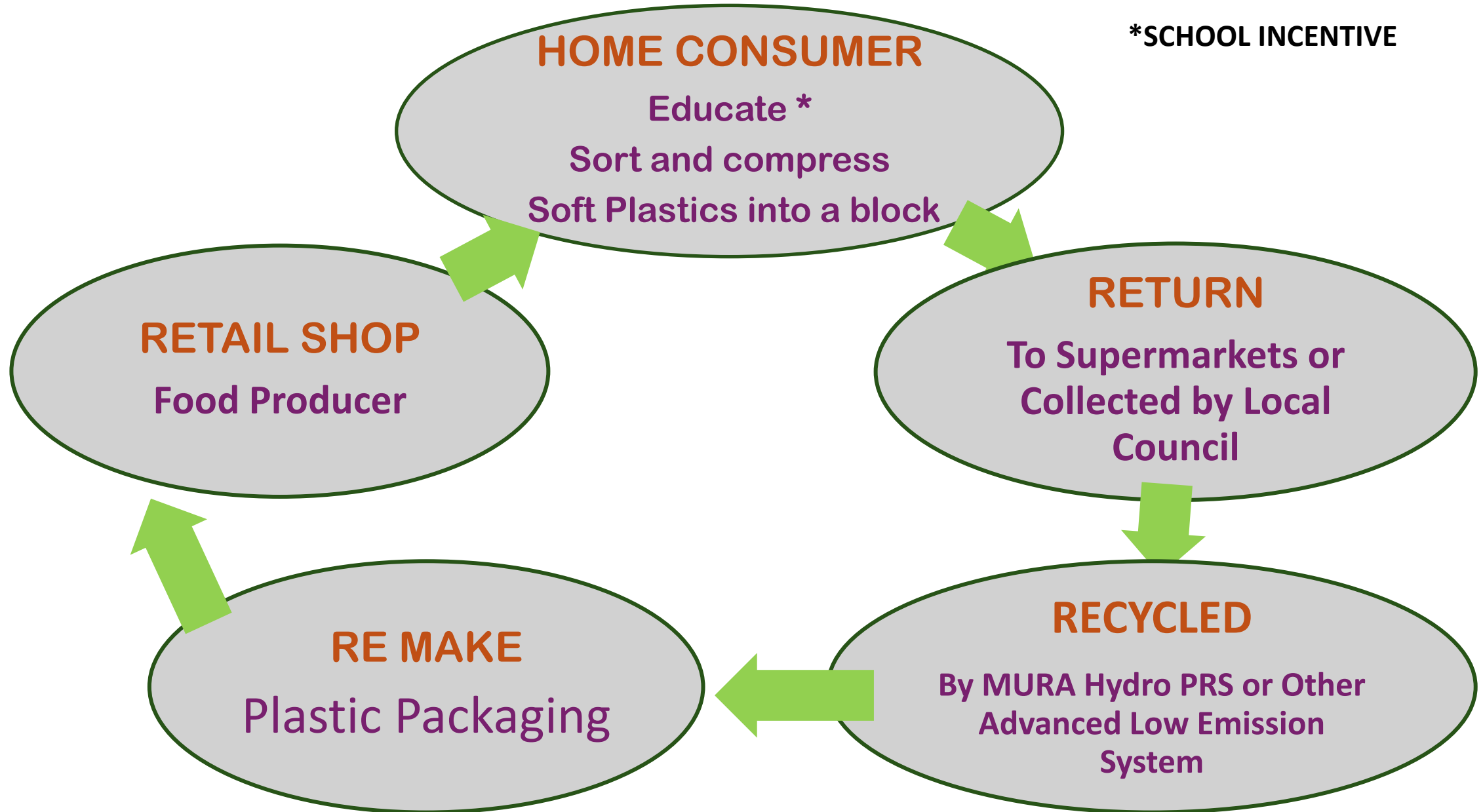
HOW TO PREPARE YOUR  
SOFT PLASTICS

<https://www.recyclenow.com/how-to-recycle/recycling-contamination#What-is-recycling-contamination>



# EXAMPLE CIRCULAR SOFT PLASTIC RECYCLING

\*SCHOOL INCENTIVE



Draw and colour this for your home

How to make a Bread Bag Block

**Pile** your clean soft plastic together

**Pack** in two bread bags - for strength

<https://www.recyclenow.com/recycle-an-item/plastic-bags-and-wrapping?postcode=BB6%207JQ#locator>

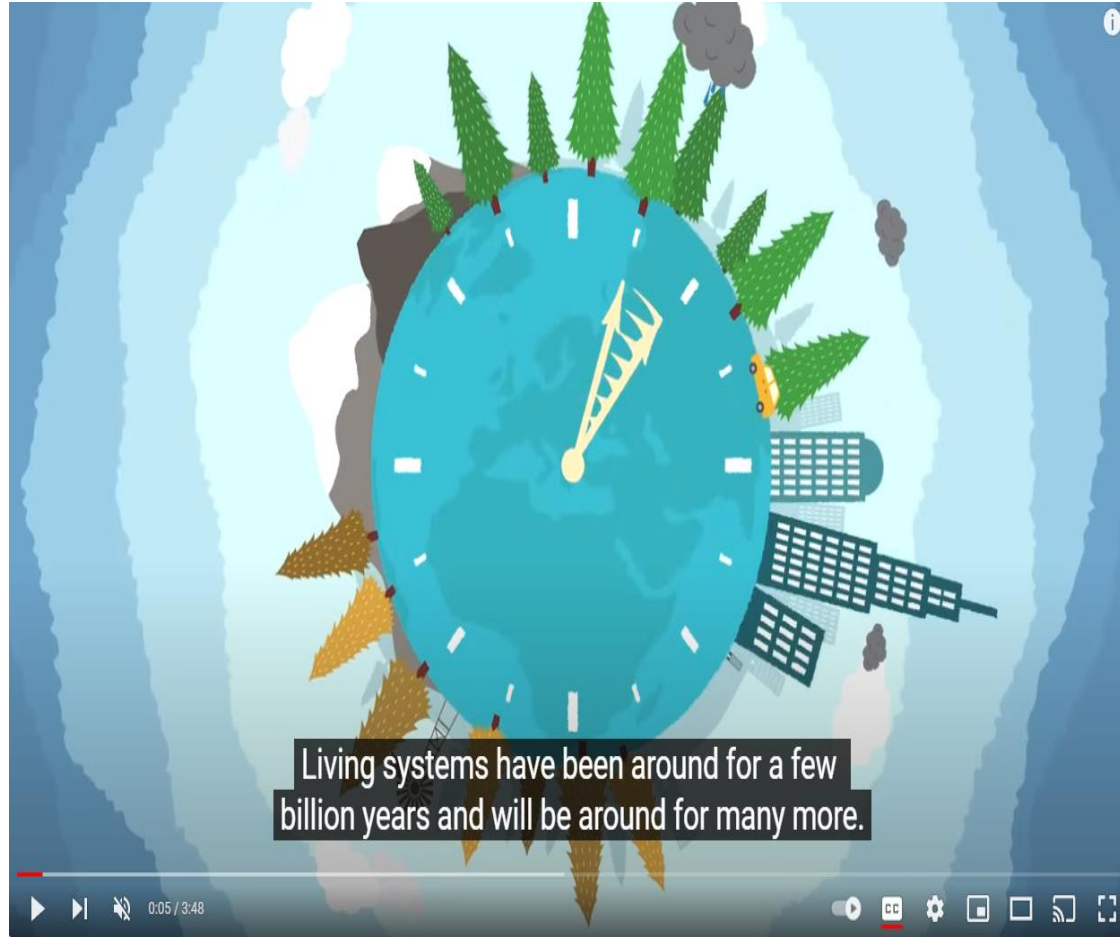
**Push** all the air out

**Tie** or tape to keep tight

**Take** back to your local supermarket



# LETS LEARN ABOUT THE CIRCULAR ECONOMY



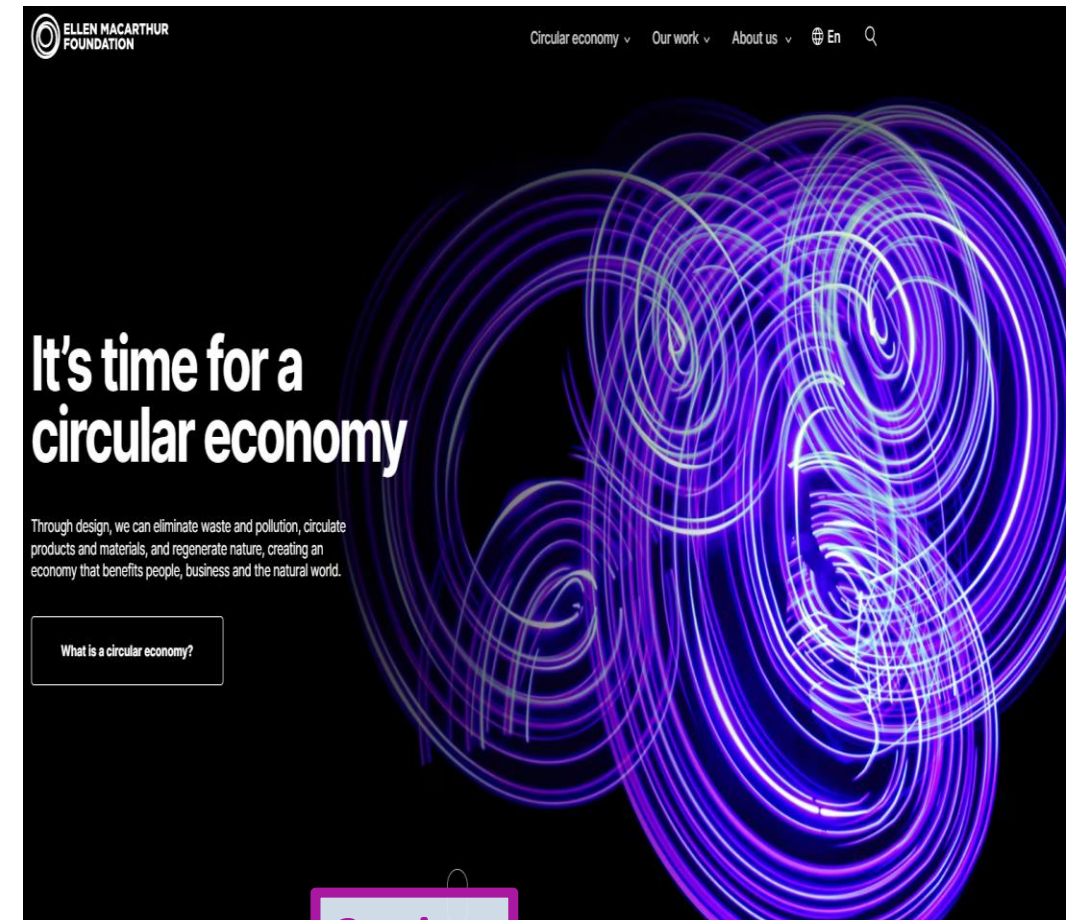
Explaining the Circular Economy and How Society Can Re-think Progress | Animated Video Essay



3min 48



<https://www.youtube.com/watch?v=zCRKvDyyHmI&t=1s>



3 min

<https://www.youtube.com/watch?v=6-0Bjxt3ZOs>

# HOW NEW TECHNOLOGY MIGHT HELP RECYCLE SOFT PLASTICS



Mura's Target feedstock includes the flexible, multi-layered materials that cannot be processed via traditional mechanical means, such as flexible films and multi-layered plastics, that would otherwise be sent to incineration or landfill.

<https://www.youtube.com/watch?v=pjK33b8upBY&t=7s>



2min 59

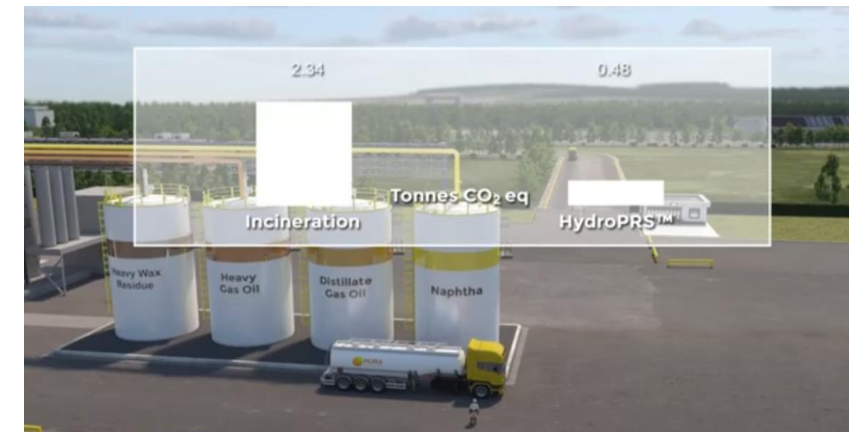


Hydro PRT technology is 80% less carbon intensive than incineration – lets follow to see if it works

<https://www.youtube.com/watch?v=bv3vrVHs1Wo&t=3s>

“The Government is committed to both clamping down on the unacceptable plastic waste that harms our environment and ensuring more materials can be reused instead of being thrown away. By investing in these truly ground-breaking technologies, we will help to drive these efforts even further, and I look forward to seeing them develop and deliver real results.”

The concept has also been backed by environmental groups campaigning to tackle the plastic waste crisis.



<https://link.springer.com/article/10.1007/s10924-023-02792-3>



**ONLY 9%**

So . . . Recycle hasn't worked > > >  
Let's concentrate on Refuse,  
Reduce and the other Rs

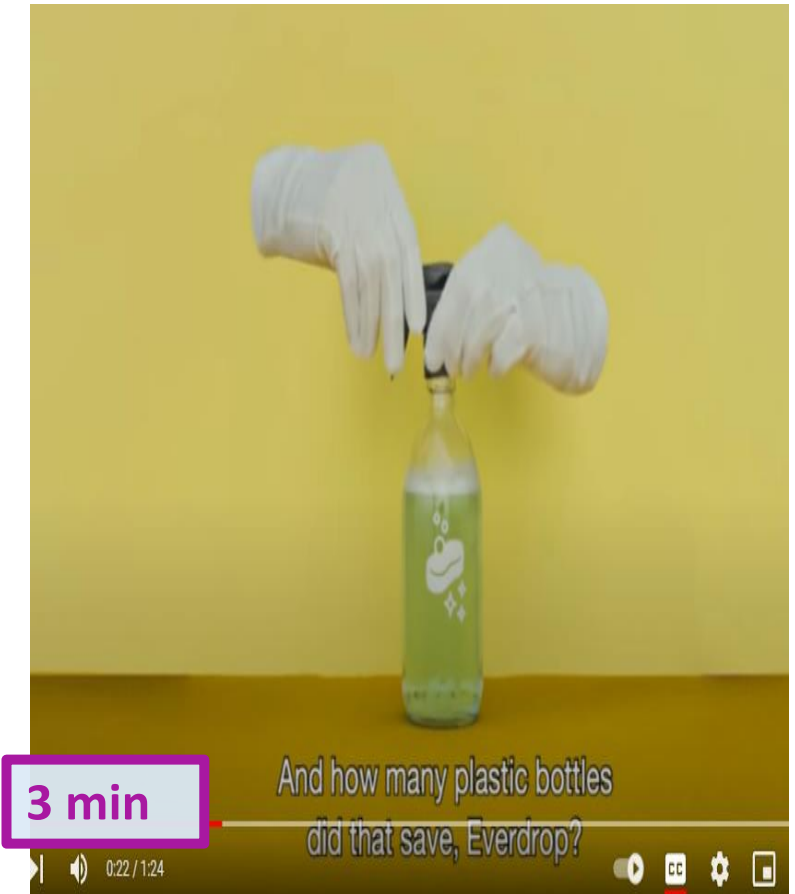
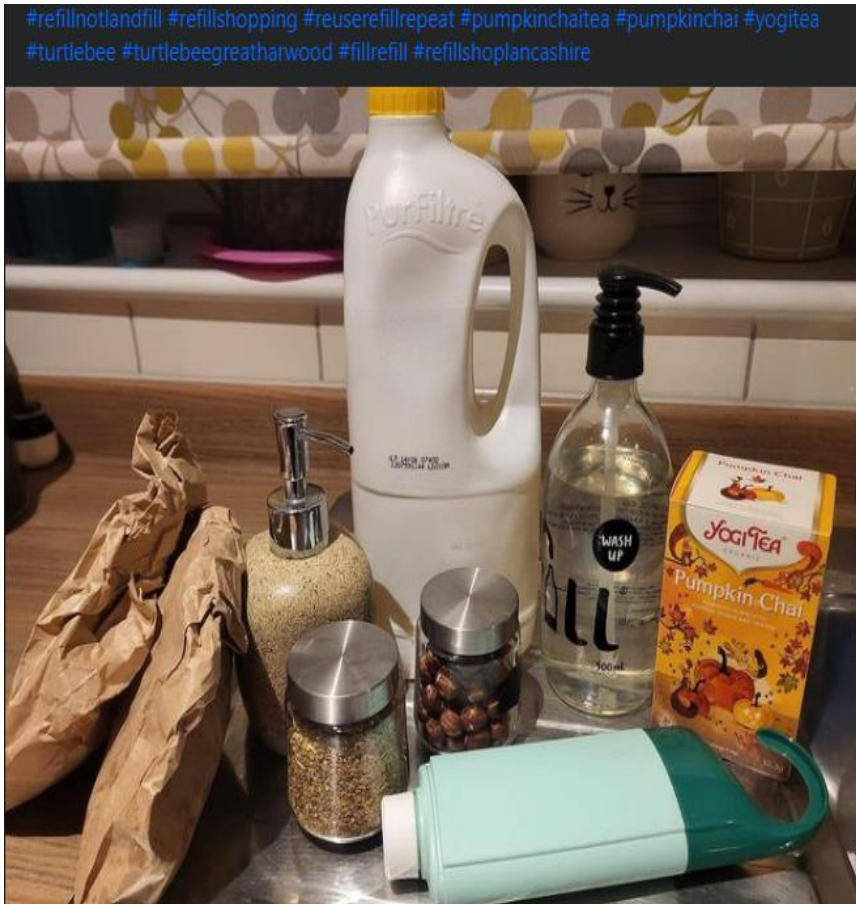
Let's add  
Re -Fill

**We now have 9 Rs**





# Example Circular No Plastic Re-use + Re-fill



<https://youtu.be/jQdMgHJTBiS>



# START YOUR OWN REFILL SHOP



**Pupils Profit**  
Enterprise based PSHE learning



Engaging children in  
Ethical Enterprises

Our goal is to teach pupils how to set up and operate sustainable Healthy Tuck Shops and Eco refill shops, which will contribute to a school's overall well being.  
Click here to read what staff and pupils say.



Confidence + Creative Thinking + Team Work  
+ Effective Participation + Self Motivation + Healthy Living = Pupils Profit

Learning outcomes:

- Repeated practice of Employability Skills: a sustainable enterprise provides an arena in which to repeatedly practice and develop many essential employability skills, including team work, effective communication, problem solving, leadership and numeracy.
- PSHE Objectives: these skills enable participants to fulfil PSHE objectives of building confidence and resilience to change, contributing to pupils' wellbeing.
- ECO Refill Shop normalises circular behaviour for children and allows a practical response to support the environment; children actively reduce use of

<https://www.pupilsprofit.com/>



St Margaret Marys RC Primary in Moston invited Andy Burnham Mayor of Greater Manchester to visit their shop



# **ACTION . . .**

## **Re-Use + Re-fill Shops**

Are small family run businesses that provide a great service  
- and help Customers learn about healthy eating !



**Write to your MP and your Local Council**  
**Ask them to support Zero Waste shops**

## **WHY ??**

- 1** It is a solution to the massive soft plastic pollution problem
- 2** They are usually on the High Street so encourage visits into town.
- 3** No Greenhouse Gas Emissions !
- 4** Less waste means less bulk in your bin you could reduce the number of collections . . . . . Saving money for the council and rate payers !



If you look in your kitchen and bathroom you will see lots of plastic soap bottles and plastic spray bottles for cleaning - SEE IF YOU CAN CHANGE TO Re-Fill



### MINIML

Miniml is a refillable, eco-friendly cleaning brand. You can find them in over 500 refill shops in the UK or you can buy its products singularly or in bulk online. Miniml has a closed-loop system; all its bottles are designed to be reused.

 Cruelty-Free + Vegan



**BE PART OF THE SOLUTION - NOT PART OF THE POLLUTION !!**

<https://www.youtube.com/watch?v=bqNWU8-i49M>

**ONLY 9%**

So . . . Recycle hasn't worked > > >  
Let's concentrate on Refuse,  
Reduce and the other Rs

Let's add  
Re -Fill

**We now have 9 Rs**

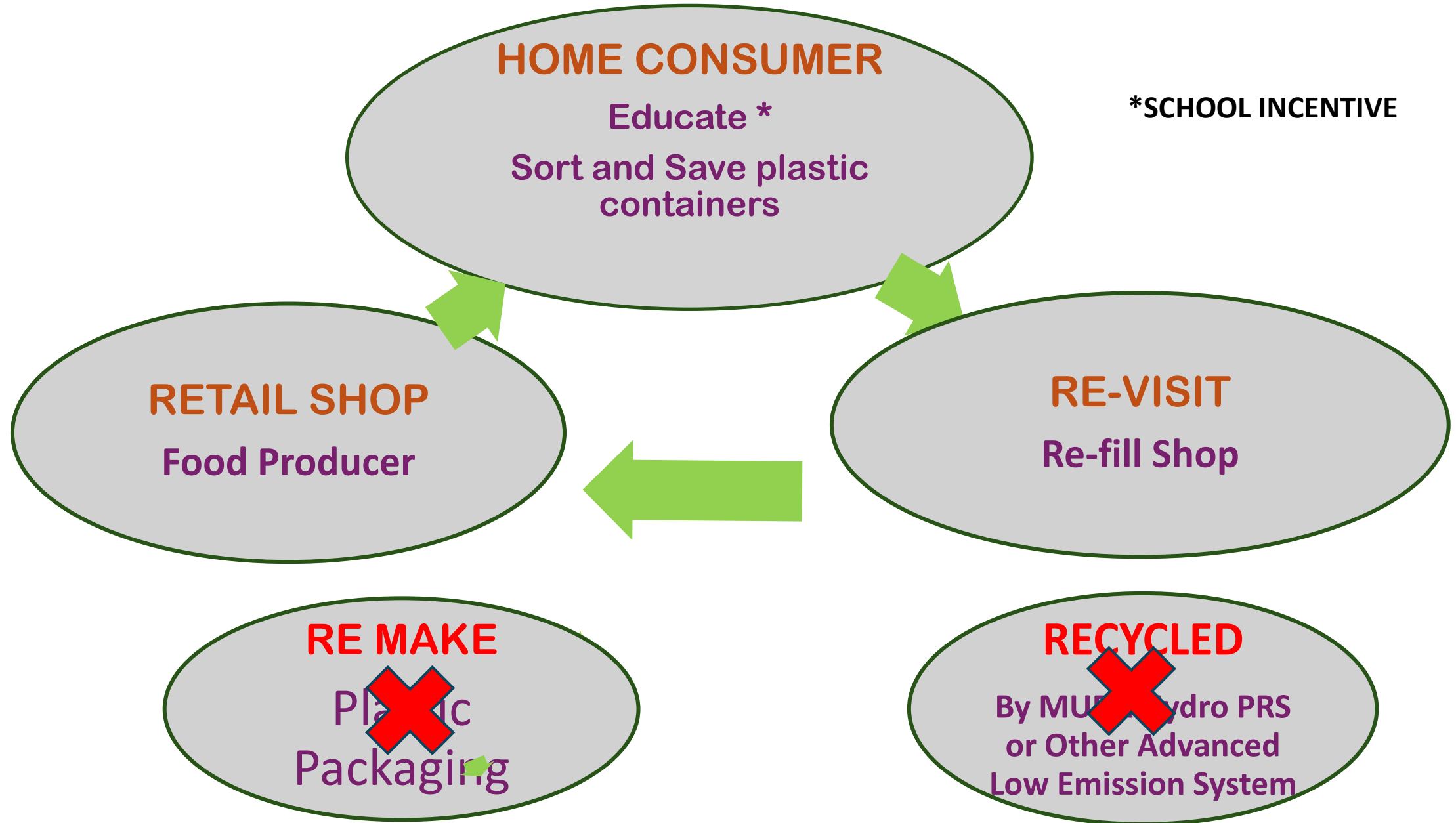




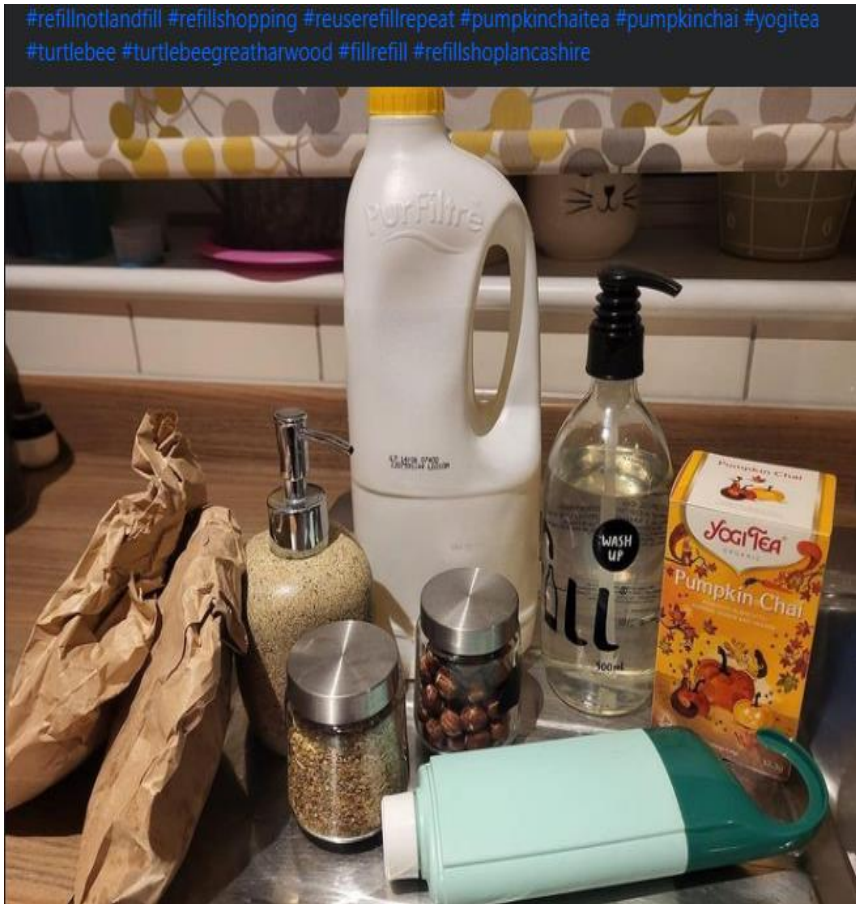
Example Circular

No Plastic

Re-use + Re-fill



# Example Circular No Plastic Re-use + Re-fill

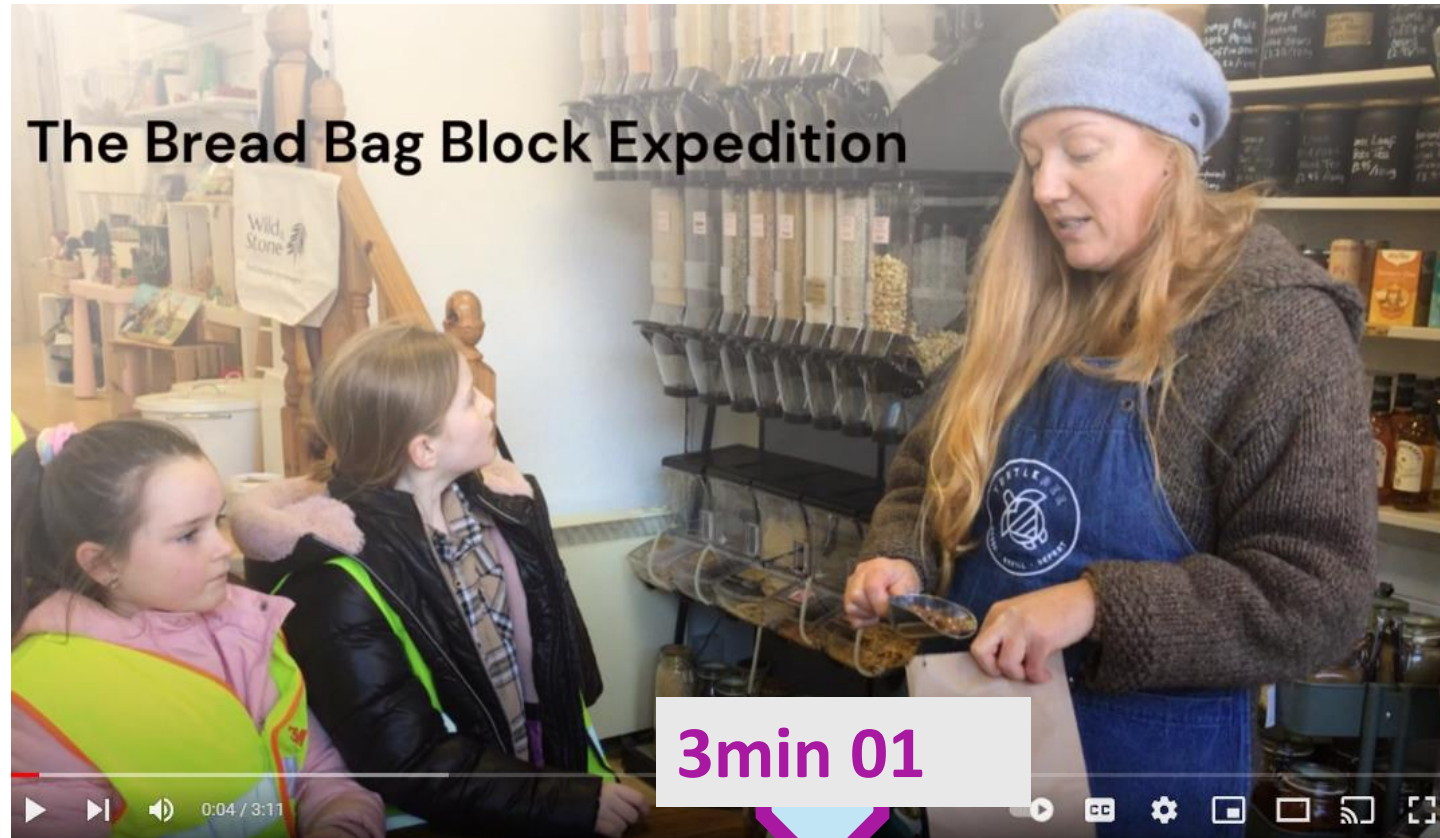


<https://youtu.be/jQdMgHJT Bis>



# NEW SCHOOL ECO PROJECT 2024

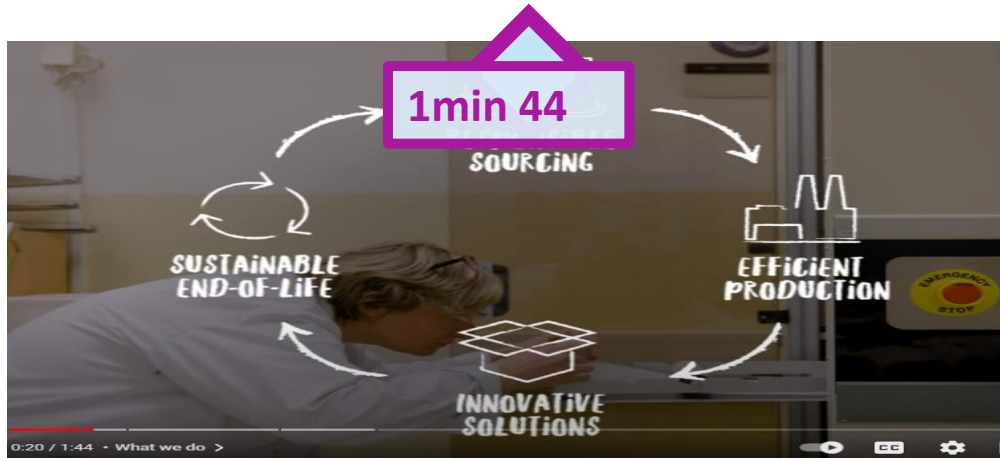
Last year I expanded the plastic footprint to include the soft plastic recycling at supermarkets which incorporates the Plastic Pollution Treaty and COP and also encourages them to use refill shops. This can be used as one of the big actions for Cafod Live Simply Award – see video below.



<https://www.youtube.com/watch?v=JacJ6LUUjil>

# GOOD NEWS - Innovations and Projects for packaging alternatives -

<https://www.youtube.com/watch?v=fH0-v-MtjEc&t=3s>



<https://www.youtube.com/watch?v=gWQOPA0ivzc>

## How does RePack work?

45 sec

- ① Your products are packed and shipped in a RePack.
- ② After receiving your products, you return the empty RePack by dropping it for free, in any mailbox in the world.
- ③ The returned RePack is cleaned and reused for future deliveries, reducing waste and CO2 emissions!

## Why we need a universal refill scheme to tackle plastic | Comment & Opinion | The Grocer



<https://www.youtube.com/watch?v=Hof0Sss2138>

9min 58





# EARTH SHOT - Innovation Awards 6<sup>th</sup> November

<https://earthshotprize.org/winners-finalists-listing/?filter-year=2024>

## Fix Our Climate

A.T.S USA  
<https://www.youtube.com/watch?v=2vcFysRsKF4&t=5s>



Advanced Thermovoltaic Systems

BUILD UP NEPAL Nepal  
<https://www.youtube.com/watch?v=CqlqaiH4yGU&t=7s>



Build up Nepal

EQUATIC USA  
<https://www.youtube.com/watch?v=U3D-wQnpNUE&t=5s>



Equatic

## Revive Our Oceans

HIGH AMBITION COALITION  
<https://www.youtube.com/watch?v=KzSFHxQA5k&t=116s>



High Ambition Coalition for Nature and People

MI ALGAE UK  
<https://www.youtube.com/watch?v=tS36Pt48dTU&t=5s>



MiAlgae

COAST4C Australia  
<https://www.youtube.com/watch?v=ks3gewSDhuk>



Coast 4C

## Build a Waste-free World

FERMENT'UP France  
<https://www.youtube.com/watch?v=VQzYd9CyKLA&t=6s>



Ferment'Up

KEEP IT COOL Kenya  
<https://www.youtube.com/watch?v=-H21tdbZ2Rs&t=1s>



Keep IT Cool

NATURE FIBER WELDING USA  
[https://www.youtube.com/watch?v=oSTdvj\\_J8NY&t=2s](https://www.youtube.com/watch?v=oSTdvj_J8NY&t=2s)



Natural Fiber Welding

## Clean Our Air

MYCL Indonesia  
<https://www.youtube.com/watch?v=XRF34tXjrZ0&t=3s>



MYCL

GAYO Ghana  
<https://www.youtube.com/watch?v=ZGq9W7L-HjE&t=7s>



GAYO, Green Africa Youth Organization

D.LIGHT Kenya  
<https://www.youtube.com/watch?v=4tLfdyCiGbw&t=1s>



d.light

## Protect & Restore Nature

NATURE METRICS UK  
<https://www.youtube.com/watch?v=FkMCZR8M930&t=10s>



NatureMetrics

PROTECT NATURE Ecuador  
<https://www.youtube.com/watch?v=Dif6kibQrqq&t=2s>



Amazon Sacred Headwaters Alliance

CONSERVATION Kazakhstan  
<https://www.youtube.com/watch?v=PZ2XcC7E8P8&t=15s>



Altyn Dala Conservation Initiative





In Cambodia, Jesuit Services are helping disabled people and school children to nurture and care for our common home.

<https://www.facebook.com/watch/?v=2225095054547389>

1 min 52



2 min 10

<https://fb.watch/vrec5gm4IY/>

<https://www.facebook.com/watch/?v=265667679397696>

2min 27



# Prayer for Creation

O Lord, seize us with your power and light,  
help us to protect all life,  
to prepare for a better future,  
for the coming of your Kingdom  
of justice, peace, love and beauty.  
Praise be to you!  
Amen.

*(Laudato Si', 246)*





Working together we can make a big impact !



# TRANSITION Safe Ambition sing “Its about time”



4 min 24s

<https://www.youtube.com/watch?v=buttg8DlMA0>

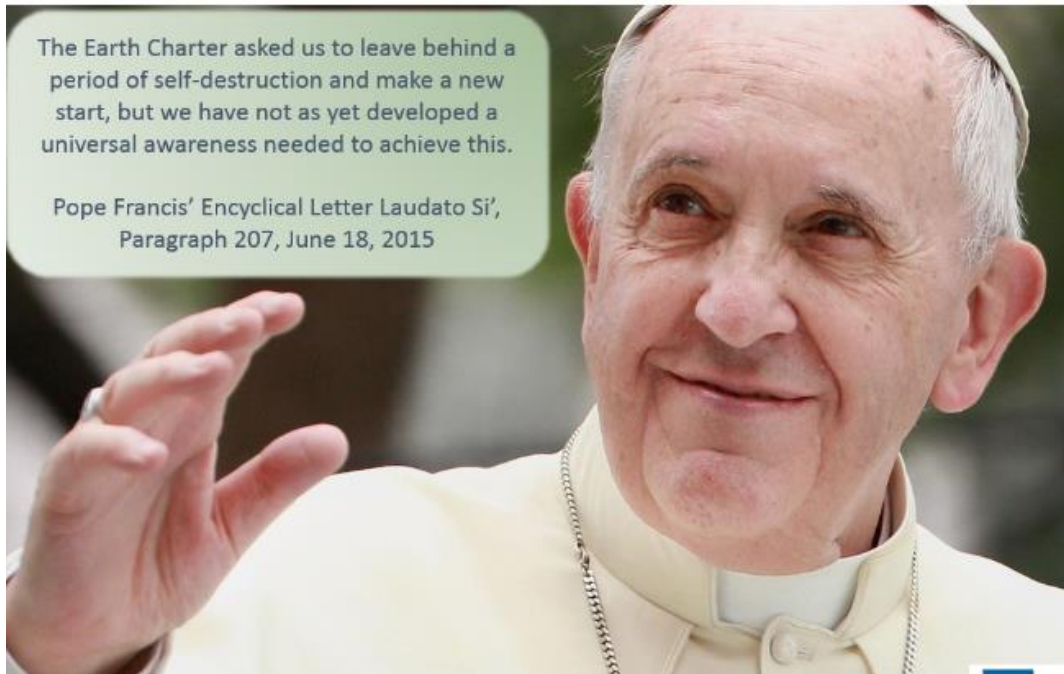




**We must move beyond the mentality of appearing to be concerned but not having the courage needed to produce substantial changes -  
Laudate Deum 56**

In *Laudato Si* and *Laudate Deum* Pope Francis talks about how man is ruining the planet through exploiting all the resources and disregarding the needs of nature and the poor.

With the principles of Catholic Social Teaching he outlines where we have gone wrong and how we can make things better. . . .



<https://resource-macs.com/2018/10/09/laudato-si/>

## LAUDATE DEUM

[https://www.vatican.va/content/francesco/en/apost\\_e\\_xhortations/documents/20231004-laudate-deum.html](https://www.vatican.va/content/francesco/en/apost_e_xhortations/documents/20231004-laudate-deum.html)

## CAFOD *Laudato Si*

<https://youtu.be/o3Lz7dmn1eM>

<https://cafod.org.uk/education/laudato-si-for-schools>

## CAFOD Live Simply Award KS2

<https://cafod.org.uk/campaign/livesimply-award/livesimply-award-for-schools>

## LAUDATO SI CHAMPIONS KS2-KS3

<https://www.stmarys.ac.uk/research/areas/theology-and-ethics/guardians-of-creation-project/laudato-si-champions.aspx>

Education for Sustainable Development in Practice: Tips from Educators

[https://www.youtube.com/watch?v=\\_qyKSsy6ccs](https://www.youtube.com/watch?v=_qyKSsy6ccs)

## Laudato Si - A Global Movement

<https://laudatosiactionplatform.org/>





# SEASON OF CREATION

Care for our common home  
... OUR FOOTPRINTS ...



**PLEASE NOTE** The information in this presentation is dynamic and is regularly updated to include changes in policies and news from governments , IPCC reports, and our own efforts.. The presentation is compiled from various sources and have not been acknowledged . If you would like information on the Footprints PowerPoints and Eco projects please Contact Bob Turner [rfturn@hotmail.com](mailto:rfturn@hotmail.com)

**25-10-24**