

# Is There a Climate Emergency?

What does it mean  
and How Big is the Problem

Plus XR

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U3A NILLUMBIK

# An Apology

This is scary

The good news is –

I may be wrong and it all turns out fine

The bad news is –

I may be wrong and it turns out really bad

Greta Thundberg – Swedish – Asberger's



“ADULTS KEEP SAYING, ‘WE OWE IT TO THE  
YOUNG PEOPLE TO GIVE THEM HOPE’.  
**BUT I DON'T WANT YOUR HOPE.**  
I DON'T WANT YOU TO BE HOPEFUL.  
**I WANT YOU TO PANIC.**  
I WANT YOU TO FEEL THE FEAR  
**I FEEL EVERYDAY.**  
AND THEN I WANT YOU TO ACT...  
I WANT YOU TO ACT AS IF YOUR  
**HOUSE IS ON FIRE.**  
**BECAUSE IT IS.”**  
- GRETA THUNBERG

# Are Droughts caused by Climate Change?

**Drought** is a continuous period of dry weather, when an area gets less than its normal amount of rain, over months or even years

Droughts are not more likely because of Climate Change

BUT given a 2 degree temperature rise, a drought will cause more problems

# Are Bush fires caused by Climate Change?

**No.** You need an ignition point

BUT given a 2 degree temperature rise, a given fire will cause more problems

Much longer fire seasons

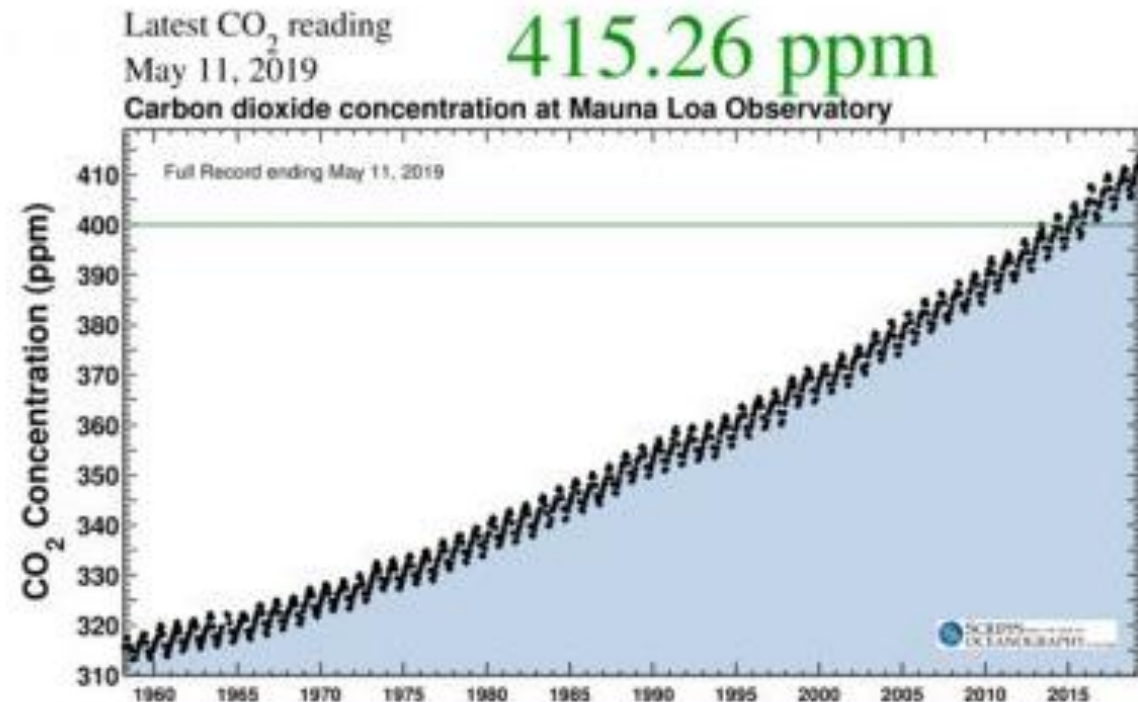
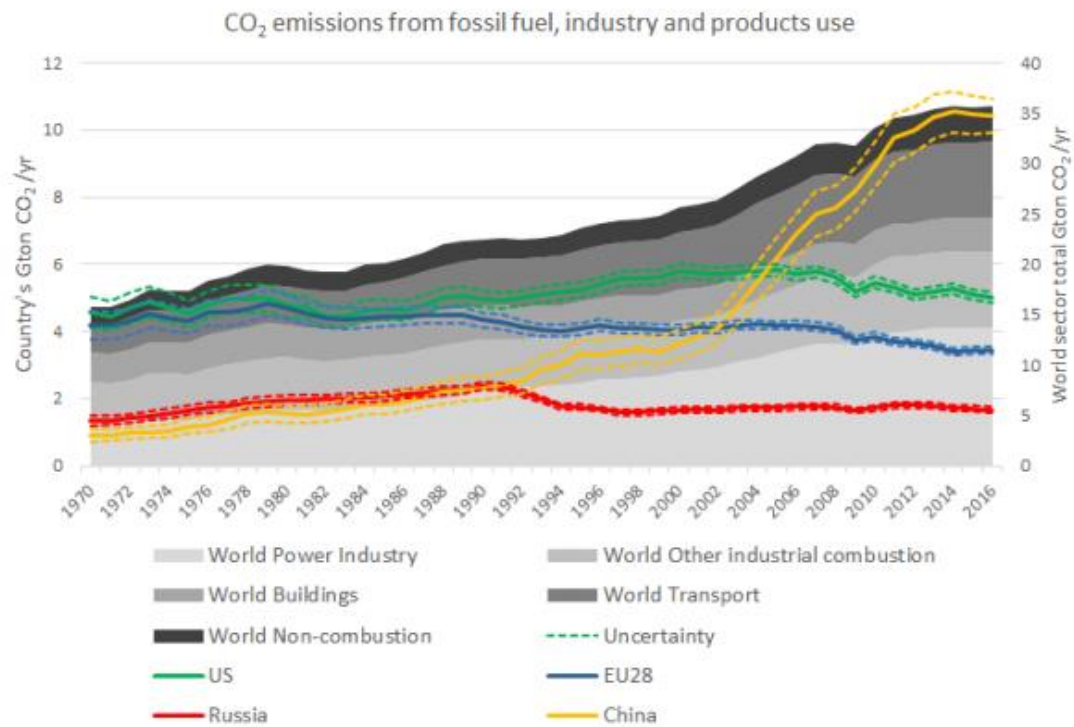
Many fires at the same time.

# General Scenarios

2007 – Zero emissions by 2040 – 1.5 - 2 degrees  
2019 – Zero emissions by 2030 – 1.5 - 2 degrees  
50% emissions by 2050 – 3.5 to 6 degrees

# Problems

Its CO<sub>2</sub> levels not emissions that matter



# Problems

Its CO2 levels not emissions that matter

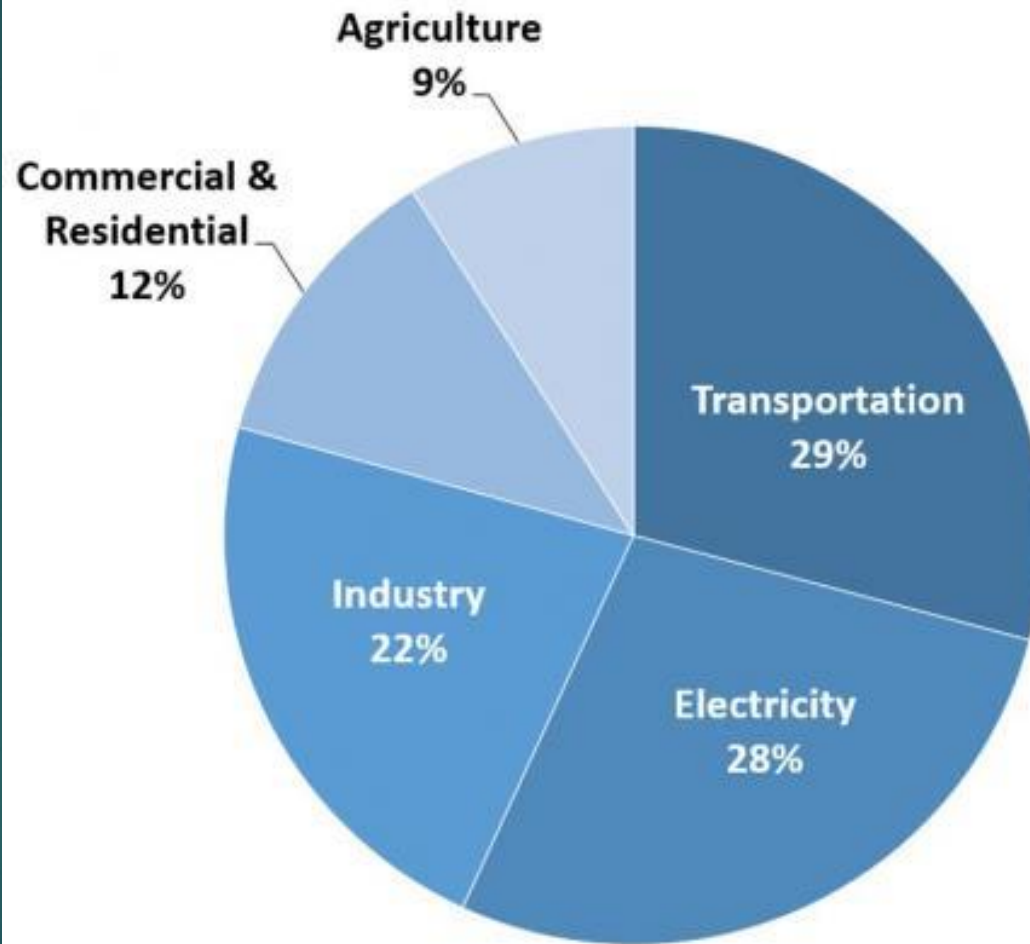
4 degrees average = 8 degrees at poles

Paris targets too low and won't be met

No one is tightening the targets

Only addressing a small part of the problem

## Total U.S. Greenhouse Gas Emissions by Economic Sector in 2017



# Problems

It's CO2 levels not emissions that matter

4 degrees average = 8 degrees at poles

Paris targets too low and won't be met

No one is tightening the targets

Only addressing a small part of the problem

Feedback loops – Tipping Points

# Tipping Points – Arctic Ice

Arctic heats up

The ice retreats

Exposed water absorbs radiation and heats up

# Tipping Points – Tundra



# Tipping Points

Arctic Ice

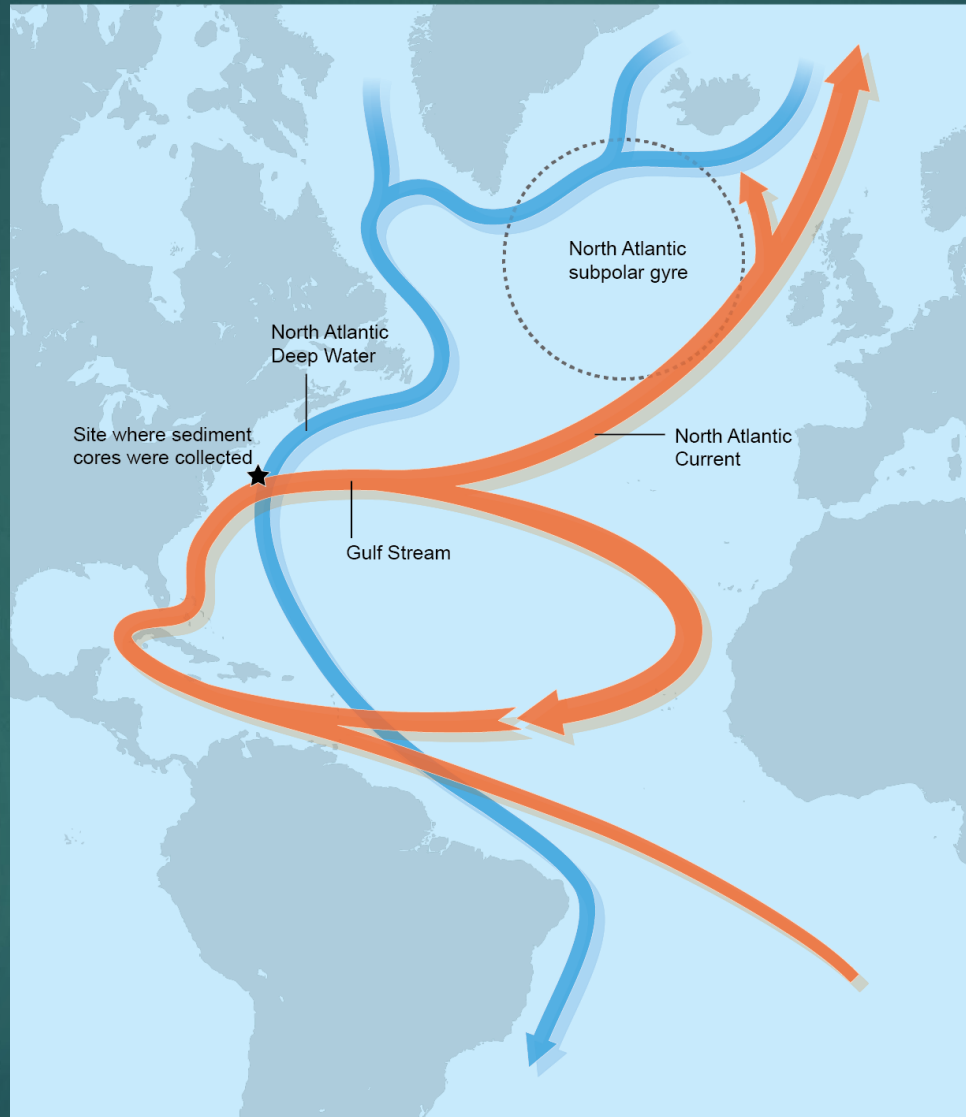
Tundra

Ice sheets Melting

Sea Shells

Krill

North Atlantic Drift



# Climate Change

Higher temperatures - 1.5 degrees

More storms, fires and floods

Worse droughts

Sea Rise


# Catastrophic Climate Change

Higher temperatures > 3 degrees

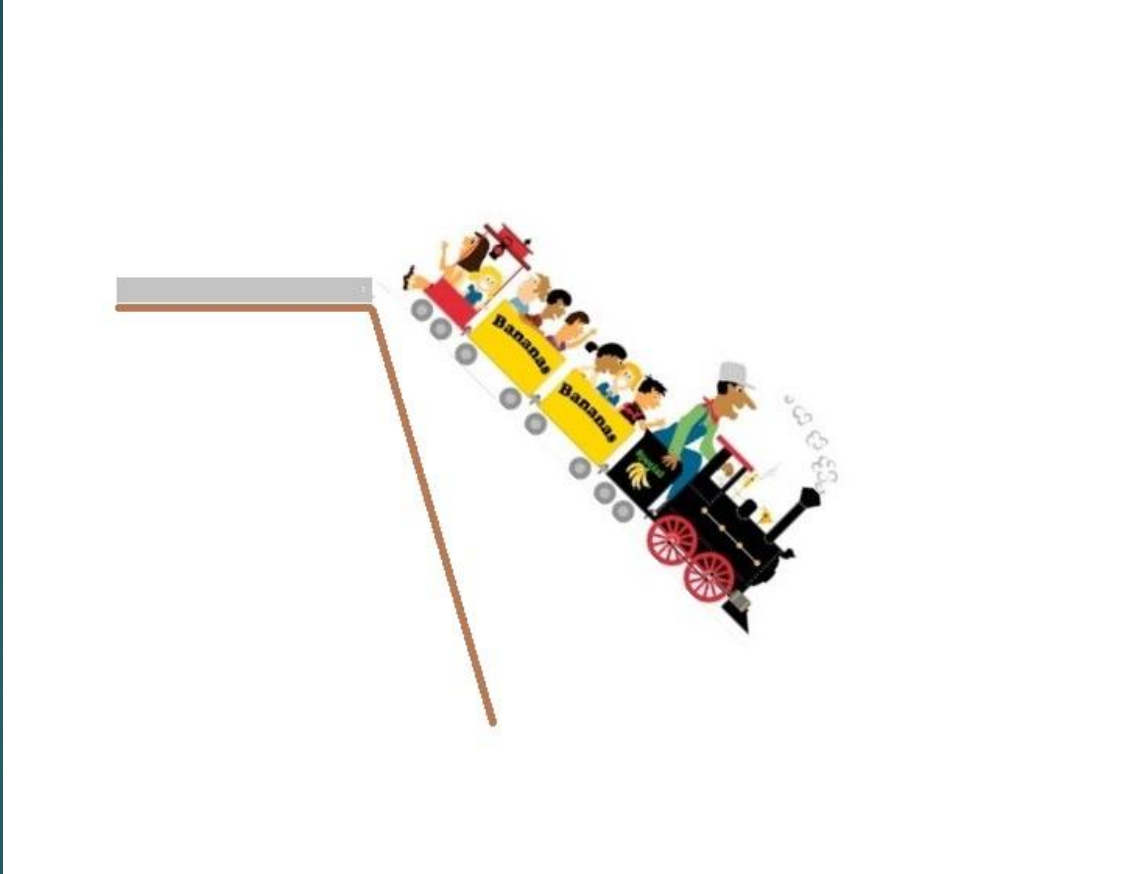
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Sea Rise

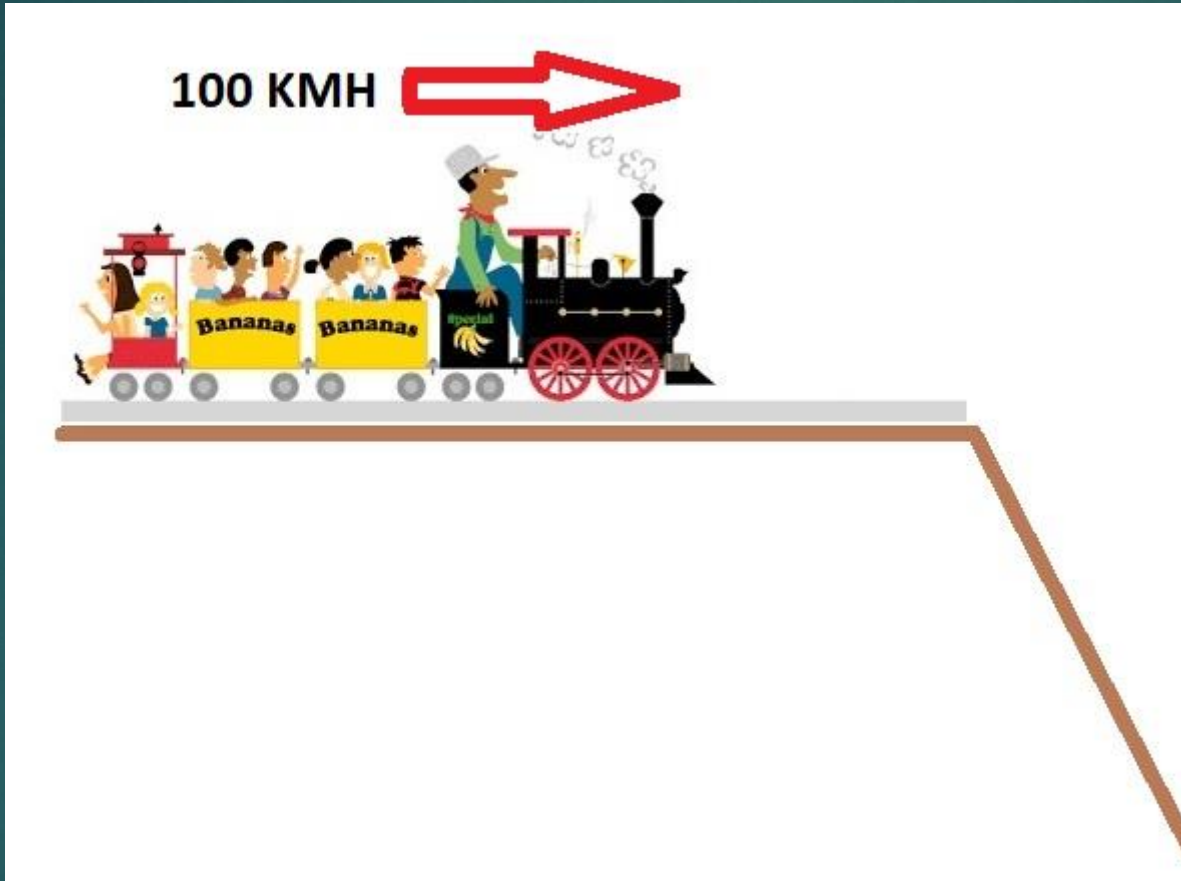
- 
- A red bracket graphic on the left side of the list, consisting of a vertical line with two horizontal arrows pointing to the right, one for the first item and one for the second item.
- Lost food production – land and sea
  - Uncontrolled migration
  - Civil Unrest/War

# When is it an Emergency?



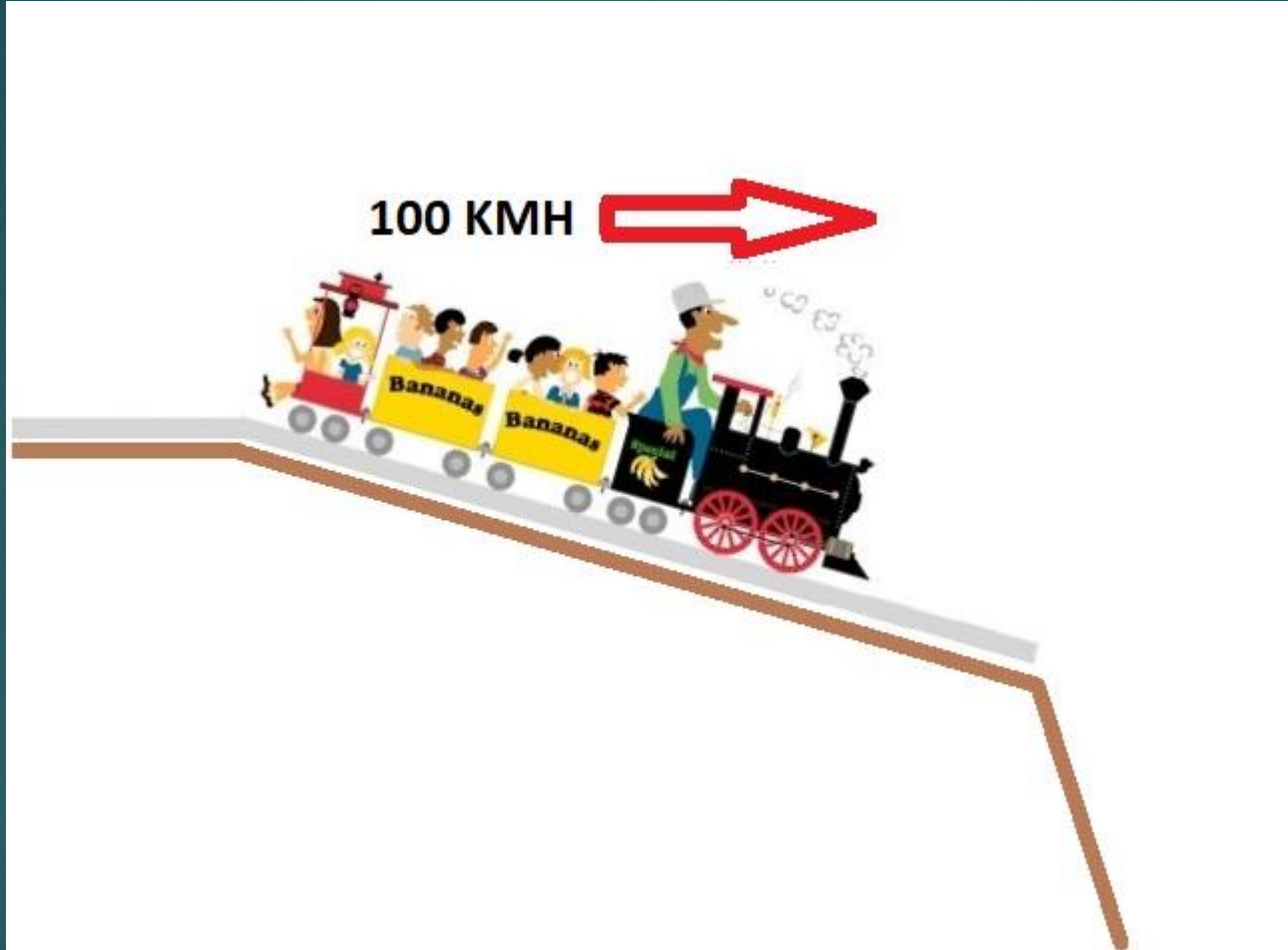
## This is an Emergency!

# When is it an Emergency?



So is this

# When is it an Emergency?



And this is even worse

Do we have to be certain?

The engines on a cruise ship have failed

It is drifting towards a reef

There is a 20% chance of collision

**THIS IS AN EMERGENCY**

# Declaring a Climate Emergency

Why Councils?

What does it mean?

- A person dedicated to Climate Action
- Annual Reports
- All Decisions consider Climate Change

# Who has declared a Climate Emergency?

**AUSTRALIA** - Adelaide City Council; Adelaide Hills Council; Augusta-Margaret River Shire Council; Australian Capital Territory Legislative Assembly; Ballarat City Council; Banyule City Council; Bass Coast Shire Council; Bega Valley Shire Council; Bellingen Shire Council; Blue Mountains City Council; Brimbank City Council; Broken Hill City Council; Burnside City Council; Byron Shire Council; Canada Bay City Council; Canterbury Bankstown City Council; Cardinia Shire Council; Central Coast Council; Clarence Valley Council; Darebin City Council; Darwin City Council; Denmark Shire Council; Fremantle City Council; Gawler Town Council; Glen Innes Severn Shire Council; Hawkesbury City Council; Hepburn Shire Council; Hobart City Council; Hobsons Bay City Council; Indigo Shire Council; Inner West Council; Kingborough Council; Lane Cove Council; Launceston City Council; Light Regional Council; City of Lismore ; Maribyrnong City Council; Melbourne City Council; Moonee Valley City Council; Moreland City Council; Mornington Peninsula Shire Council; Murray Bridge Council; Newcastle City Council; Noosa Shire Council; North Sydney Council; Northern Beaches Council; Port Adelaide Enfield City Council; Port Lincoln City Council; Port Phillip City Council; Randwick City Council; Ryde City Council; Surf Coast Shire Council; Swan City Council; Sydney City Council; Tweed Shire Council; Upper Hunter Shire Council; Town of Victoria Park; Vincent City Council; Warrnambool City Council; Willoughby City Council; Wollongong City Council; Woollahra Municipal Council; Yarra City Council; Yarra Ranges Council

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# Who has declared a Climate Emergency?

## BRITAIN -

Aberystwyth Town Council; Adur and Worthing Councils; Amber Valley Borough Council; Angus Council; Ards and North Down Borough Council; Ashburton Town Council; Aylesbury Town Council; Aylesbury Vale District Council; Babergh District Council; Barnstaple Town Council; Barrow Borough Council; Basingstoke and Deane Borough Council; Bath and North East Somerset Council (UA); Bedford Borough Council (UA); Belfast City Council; Bideford Town Council; Birchwood Town Council; Birmingham City Council; Bishopsteignton Parish Council; Blackburn with Darwen Borough Council; Blackpool Council; Bollington Town Council; Bolton Metropolitan Borough Council; "Bournemouth, Christchurch and Poole Council"; Bovey Tracey Town Council; Bradford District Council (UA); Bradford-on-Avon Town Council; Braintree District Council; Braunton Parish Council; Breckland Council; Brent London Borough Council; Bridgnorth Town Council; Bridgwater Town Council; Bridport Town Council; Brighton and Hove City Council (UA); Bristol City Council (UA); Brixham Town Council; Broadclyst Parish Council; Bromsgrove District Council; Broxtowe Borough Council; Buckfastleigh Town Council; Buckingham Town Council; Bude-Stratton Town Council; Budleigh Salterton Town Council; Burgess Hill Town Council; Burnley Borough Council; Bury Metropolitan Borough Council; Caerphilly County Borough Council; Caia Park Community Council; Calderdale Council (UA); Cambridge City Council; Cambridgeshire County Council; Camden London Borough Council; Camelford Town Council; Cannock Chase District Council; Canterbury City Council; Cardiff Council; Cardigan Town Council; Carlisle City Council (UA); Carmarthenshire County Council; Chard Town Council; Chelmsford City Council; Cheltenham Borough Council (UA); Cherwell District Council; Cheshire West and Chester Council; Chesterfield Borough Council; Chichester City Council; Chichester District Council; Chiltern District Council; Chippenham Town Council; Clevedon Town Council; Cokerborough Town Council; Colchester Borough Council; Corby Borough Council; Cornwall Council (UA); Cotswold District Council; Coventry City Council; Craven District Council; Crawley Borough Council; Crediton Town Council; Croydon London Borough Council; Cullompton Town Council; Dacorum Borough Council; Darlington Borough Council; Dartington Parish Council; Dawlish Town Council; Denbighshire County Council; Derby City Council; Derbyshire Dales District Council; Derry City and Strabane District Council; Devon County Council; Dorset Council; Dumfries and Galloway Council; Dundee City Council; Durham County Council; Ealing (London Borough) Council; East Devon District Council; East Hampshire District Council; East Lothian Council; East Suffolk Council; Eastbourne Borough Council; Eastleigh Borough Council; Eden District Council; Edinburgh City Council; Elmbridge Borough Council; Enfield Council; Epping Forest District Council; Epsom and Ewell Borough Council; Exeter City Council; Faringdon Town Council; Farnham Town Council; Feock Parish Council; Fife Council; Folkestone and Hythe District Council; Forest of Dean District Council (UA); Frome Town Council; Gateshead Council (UA); Gibraltar Parliament; Glasgow City Council; Glastonbury Town Council; Gloucester City Council; Gloucestershire County Council; Gravesham Borough Council; Greater Manchester Combined Authority; Great Torrington Town Council; Greenwich London Borough Council; Guildford Borough Council; Gwynedd Council; Haddenham Parish Council; Hammersmith and Fulham London Borough Council; Hampshire County Council; Harborough District Council; Haringey London Borough Council; Harlow Council; Harrow London Borough Council; Haslemere Town Council; Hay-on-Wye Town Council; Hednesford Town Council; Helston Town Council; Herefordshire Council (UA); Hertfordshire County Council; Hertsmere Borough Council; The Highland Council; Holme Valley Parish Council; Honiton Town Council; Horsforth Town Council; Horsham District Council; Hounslow London Borough Council; Hull City Council (UA); Hunstanton Town Council; Hythe Town Council; Ipswich Borough Council; Isle of Man Parliament; Isle of Wight Council; Council of the Isles of Scilly (SGU); Islington London Borough Council; Jersey Parliament; Kempston Town Council; Kendal Town Council; Kenilworth Town Council; Kent County Council; Keswick Town Council; Kettering Borough Council; Kingston upon Thames Council; Kington Town Council; Kirklees Council (UA); Ladock Parish Council; Lambeth London Borough Council; Lancaster City Council; Lancing Parish Council; Langport Town Council; Leafield Parish Council; Leeds City Council (UA); Leicester City Council; Leicestershire County Council; Leominster Town Council; Lewes District Council; "Lewisham London Borough Council."; Lincoln City Council; Liverpool City Council; Liverpool City Region Combined Authority; Llanidloes Town Council; Greater London Authority; Long Ashton Parish Council; Louth Town Council; Lowestoft Town Council; Ludlow Town Council; Macclesfield Town Council; Machynlleth Town Council; Maidstone Borough Council; Malvern Town Council; Malvern Hills District Council; Manchester City Council; Matlock Town Council; Medway Council (UA); Melfort Borough Council; Mendip District Council; Merton London Borough Council; Mid Devon District Council; Mid Suffolk District Council; Milton Keynes Council (UA); Mole Valley District Council; Monmouthshire County Council; Moray Council; Newark and Sherwood District Council; Newbury Town Council; Newcastle City Council (UA); Newcastle-under-Lyme Borough Council; Newham Council (London Borough); Newport Town Council; Newtown & Llanllwchaearn Town Council; North East Derbyshire District Council; North Kesteven District Council; Northampton Borough Council; Northamptonshire County Council; North Hertfordshire District Council; North Lanarkshire Council; North Norfolk District Council; North Somerset Council (UA); North Tyneside Council; Northumberland County Council; Norwich City Council; Orkney Islands Council; Oswestry Town Council; Otley Town Council; Ottery St. Mary Town Council; Oxford City Council; Oxfordshire County Council; Pembrokeshire County Council; Pennard Community Council; Penzance Town Council; Peterborough City Council; Plymouth City Council (UA); Portsmouth City Council (UA); Preston City Council; Rattery Parish Council; Reading Borough Council (UA); Redbridge London Borough Council; Redcar and Cleveland Borough Council; Redditch Borough Council; Renfrewshire Council; Richmond upon Thames London Borough Council; Rochdale Borough Council; Rossendale Borough Council; Ross-on-Wye Town Council; Rother District Council; Rothwell Town Council; Rugby Borough Council; Rushcliffe Borough Council (UA); Parish of Saint Helier; Saint Just-in-Penwith Town Council; St Albans City and District Council; St Helens Council; St Ives Parish Council; St Neots Town Council; Salford City Council; Salisbury City Council; Scarborough Borough Council; Sefton Council; Shaftesbury Town Council; Sheffield City Council (UA); Shrewsbury Town Council; Shropshire Council; Somerset County Council; Somerset West and Taunton Council; South Brent Parish Council; South Gloucestershire Council; South Lakeland District Council; South Oxfordshire District Council; South Ribble Borough Council; South Somerset District Council; South Staffordshire Council; South Tyneside Council; Southend-on-Sea Borough Council; Southwark London Borough Council; Stafford Borough Council; Staffordshire County Council; Staffordshire Moorlands District Council; Stapleford Town Council; Stevenage Borough Council; Stirling Council; Stithians Parish Council; Stockport Borough Council; Stoke-on-Trent City Council; Stratford-on-Avon District Council; Stratford-upon-Avon Town Council; Stroud District Council (UA); Suffolk County Council; Sunderland City Council; Surrey County Council; Sutton Council; Swale Borough Council; Swansea Council; Tavistock Town Council; Teignbridge District Council; Teignmouth Town Council; Telford and Wrekin Council; Tendring District Council; Test Valley Borough Council; Tewkesbury Borough Council; Thanet District Council; Thatcham Town Council; Three Rivers District Council; Tiverton Town Council; Tonbridge and Malling Borough Council; Torbay Council; Torfaen County Borough Council; Totnes Town Council; Tower Hamlets London Borough Council; Trafford Council (UA); Trowbridge Town Council; Tunbridge Wells Borough Council; Tywyn Town Council; Uttlesford District Council; Vale of Glamorgan Council; Vale of White Horse District Council; Wakefield Council; Walsall Council; Waltham Forest London Borough Council; Wandsworth London Borough Council; Warrington Borough Council; Warwick District Council; Warwickshire County Council; Watford Borough Council; Watlington Parish Council; Waverley Borough Council; Wealden District Council; Welcombe Parish Council; Welsh Parliament; Welshpool Town Council; Welwyn Hatfield Borough Council; Wembury Parish Council; West Berkshire Council; West Devon Borough Council; West Dunbartonshire Council; West of England Combined Authority; West Lothian Council; West Midlands Combined Authority; West Oxfordshire District Council; West Sussex County Council; West Yorkshire Combined Authority; Westminster City Council; Weston-super-Mare Town Council; Weymouth Town Council; Wigan Metropolitan Borough Council; Wiltshire Council (UA); Winchester City Council; Windsor and Maidenhead Borough Council; Wirksworth Town Council; Wirral Council; Witney Town Council; Woking Borough Council; Wokingham Borough Council; Wolverhampton City Council; Woodbridge Town Council; Woodley Town Council; Worcester City Council; Wrexham County Borough Council; Wyre Council; Wyre Forest District Council; Yatton Parish Council; City of York Council (UA)

# Who has declared a Climate Emergency?

**CANADA** - Annapolis County; Barrie; Brampton; Burlington; Burnaby; Canadian House of Commons; Canmore Town; Cape Breton Regional Municipality; Capital Regional District; Regional District of Central Kootenay; Chatham-Kent Municipal; Colwood; Duncan; Edmonton; of Edmundston; Esquimalt Town; Greater Sudbury; Halifax Regional; Halton Regional; Halton Hills Town; Hamilton; District of Highlands; Islands Trust; Kenora; Township of King; Kitchener; of Kingston; Langley Town; London; Mahone Bay Town; Milton Town; Mississauga; Moncton; Nanaimo; New Westminster; North Cowichan Municipal; District of North Vancouver; Oak Bay Municipal; Oakville Town; Ottawa; Peterborough; Port Moody; Powell River; Prince Edward County; qathet Regional District Board; 395 Québec s (full list in link ==>); Quebec Parliament (National Assembly); of Richmond; Saanich District; St. Catharines; Sarnia; Sidney Town; Smithers Town; Sooke District; Squamish; Treaty #3 Grand; Toronto; Vancouver; Vaughan; Victoria; View Royal Town; Vuntut Gwitchin First Nation (Old Crow); Waterloo Regional; Wellesley Town; West Nipissing; District of West Vancouver; Whitby Town; Whitehorse; Wilmot Town; Wolfville Town; Woolwich Town; Yukon Legislative Assembly

**USA** - Alameda; Albuquerque; Amherst Town; Arcata; Austin; Basalt Town; Berkeley; Boulder; Boulder County; Burlington; Cupertino; of Chico; Cloverdale; Crystal Bay Township; of Davis; El Cerrito; Town of Fairfax; Fort Collins; Hayward; Healdsburg; Hoboken; Longmont; Los Angeles (no declaration yet); Malibu; Montgomery County; New Britain; New Haven; New York; Oakland; Ojai; Petaluma; Pitkin County; Richmond; and County of San Francisco; San José; San Mateo County; Santa Clara County; Santa Cruz; Santa Cruz County; Santa Fe County; Sonoma County; Taos County; Ulster County Legislature; Washtenaw County; Windsor Town

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**AUSTRIA** - Austrian National Council (Lower House); Hart bei Graz Municipal Council; Hartberg Town Council; Innsbruck City Council; Kufstein Town Council; Michaelerberg-Pruggern Council; Traiskirchen Town Council; Vorarlberg State Parliament;

**BELGIUM** - Brussels City Council; Koekelberg Town Council

**CZECHIA** - Prague 6th District Council; Prague 7th District Council

**FRANCE** - Aix-les-Bains Town Council; Balma City Council; Clermont-Ferrand City Council; Grand Chambéry Agglomeration; Lille City Council; Lyon 1st Arrondissement Council; Montpellier City Council; Montreuil City Council; Mulhouse City Council; Nantes Métropole Council; New Aquitaine Regional Council; Nice Côte d'Azur Metropolitan Council; Council of Paris; Perpignan Municipal Council; Rennes City Council; Toulon Provence Méditerranée Metropolitan Council; Toulouse City Council

**GERMANY** - Aachen City Council; City of Bad Segeberg; Bielefeld City Council; Bochum City Council; Bonn City Council; Bottrop City Council; Brachtal Municipal Council; Buhl City Council; Charlottenburg-Wilmersdorf Borough Council; Cologne City Council; Drensteinfurt Town Council; Düsseldorf City Council; Erlangen City Council; Gelsenkirchen City Council; Hamm City Council; Hennef Town Council; Herdecke Town Council; Herford City Council; Herzogenrath City Council; Horstmar Council; Hullhorst Municipal Council; Karlsruhe City Council; Kiel City Council; Kleve City Council; Konstanz City Council; Ludwigslust City Council; Lübeck City Council; Marburg City Council; Marl City Council; Münster City Council; Ostbevern Council; Pankow Borough Council; Potsdam City Council; Rüsselsheim City Council; Saarbrücken City Council; Schwerte City Council; Telgte Town Council; Tönisvorst City Council; Voerde Town Council; Warstein City Council; Wiesbaden City Council; ; IRELAND (Éire); Carlow County Council; Cork City Council; Dublin City Council; Dún Laoghaire-Rathdown County Council; Fingal County Council;

**Republic of Ireland (Eire)** - Kerry County Council; Kildare County Council; Kilkenny County Council; Limerick City and County Council; Meath County Council; Offaly County Council; Roscommon County Council; Tipperary County Council; Westmeath County Council; Wexford County Council; Wicklow County Council

**ITALY** - Acri City Council; Agrate Brianza Municipal Council; Alagna Valsesia Village Council; Aosta City Council; Castelfranco Emilia Town Council; Cervia Town Council; Cesena City Council; Chieri Town Council; Civitavecchia City Council; Legislative Assembly of Emilia-Romagna; Erchie Town Council; Fallonica Town Council; Genoa City Council; Liguria Regional Council; Livorno City Council; Lucca City Council; City of Maglie; Melendugno City Council; Milan City Council; Montoro Town Council; Naples Metropolitan City Council; Paderno Dugnano City Council; Padua City Council; Parma City Council; Pazzano Village Council; Pinerolo City Council; Prato City Council; Preganziol Municipal Council; Ravenna Municipal Council; Rocca Priora Town Council; City Council of Rome (Assemblea Capitolina); Rovigo Town Council; Santo Stefano Quisquina Town Council; Savona Council; Soliera City Council; Sovicille Municipal Council; Spinea Town Council; Syracuse City Council; Tolmezzo Town Council; Torchiarello City Council; Turin City Council; Tuscan Regional Council; Valsamoggia Council; Varese City Council; Vicchio Town Council; Vinovo Municipal Council

**JAPAN** - Iki City Council

**NETHERLANDS** - Amsterdam Municipal Council; Haarlem Municipal Council; Utrecht Municipal Council

**NEW ZEALAND** - Auckland City Council; Bay of Plenty Regional Council; Canterbury Regional Council; Christchurch City Council; Dunedin City Council; Greater Wellington Regional Council; Hawke's Bay Regional Council; Hutt City Council; Kāpiti Coast District Council; Nelson City Council; Ōpōtiki District Council; Porirua City Council; Queenstown Lakes District Council; Wellington City Council; Whangārei District Council

**PHILIPPINES** - Bacolod City Council; Tolosa Municipal Council

**POLAND** - Kraków City Council; Łódź City County Council; Lower Silesian Regional Assembly; Warsaw City Council; Warszewo Neighbourhood Council

**PORTUGAL** - Parliament of Portugal

**SLOVAKIA** - Zlaté Moravce City Council

**SPAIN** - Basque Country Autonomous Community (Euskadi); Parliament of the Canaries ; Municipality of Castro Urdiales ; Autonomous Community of Catalonia; Ciutadella de Menorca Municipal Council; El Rosario Municipal Council; La Orotava Municipal Council; Lanzarote Island Council; Logroño City Council; Madrid City Council; Majorca (Mallorca) Council; City Council of Salobreña; City Council of San Cristóbal de La Laguna ; Seville City Council; Spanish Congress of Deputies; Villaralbo City Council; City Council of Zaragoza

**SWITZERLAND** - Canton of Basel-City (Basel-Stadt); Biel/Bienne Municipal Council; Delémont City Council; Geneva City Council; Canton of Jura; Köniz Town Council; Liestal City Council; Canton of Lucerne ; Canton of Neuchâtel; Olten City Council; Thun City Council; Canton Vaud; Wil City Council; Winterthur City Council; Yverdon-les-Bains Municipal Council

What does it all mean

We may be fine (2-3 degrees)

We may be in trouble (3-4 degrees)

We may be in real trouble (4-6 degrees)

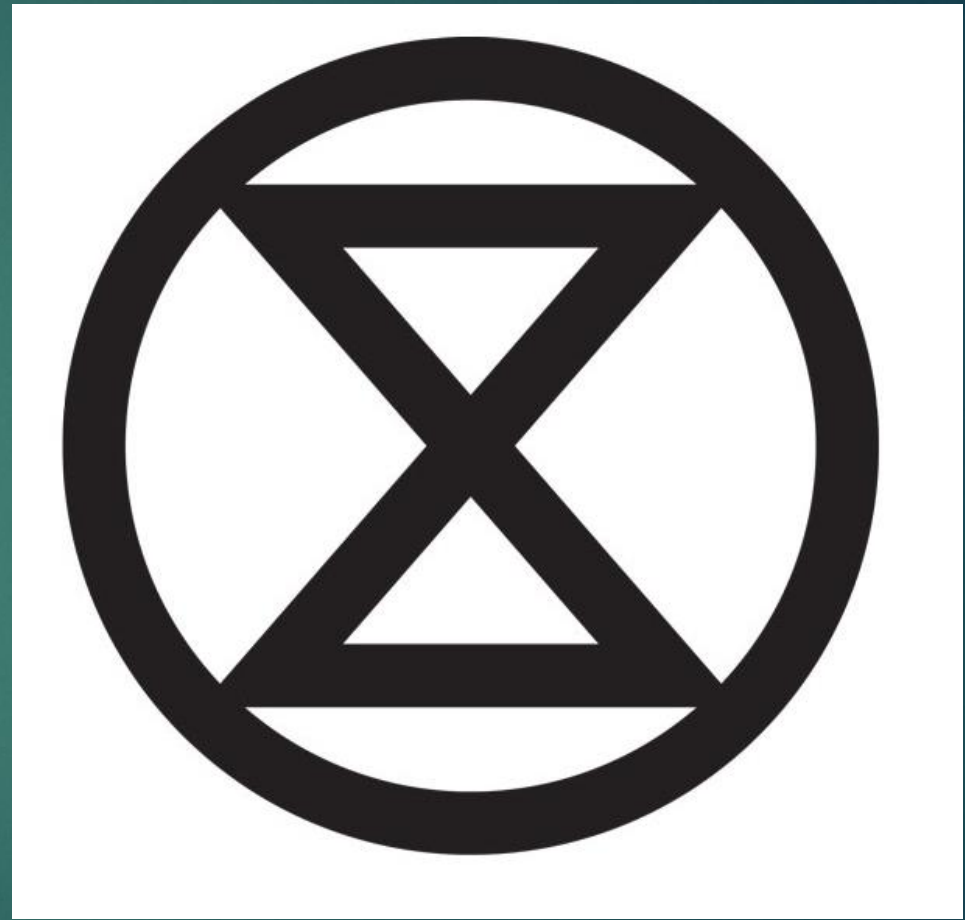
We don't know

Plan for the worst, hope for the best

Peace



Extinction Rebellion



# Extinction Rebellion – Spring Rebellion



# Extinction Rebellion – Spring Rebellion



# Extinction Rebellion – Spring Rebellion



# Extinction Rebellion – Spring Rebellion



Tell the Truth

Zero Emissions by 2025

Citizen's assembly to set direction