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# Open House Knowledge sharing –An Interactive Session

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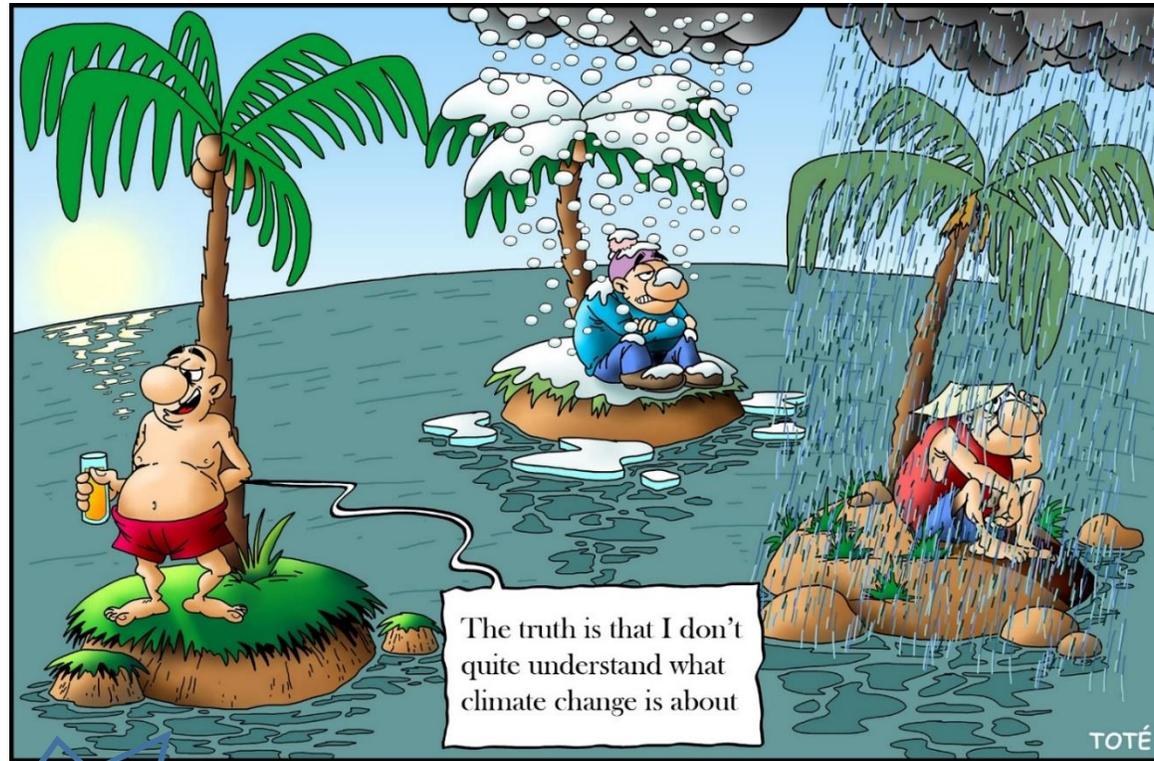
Some of the authors of this publication are also working on these related projects:



Skills in Technology Sector [View project](#)



Climate Change [View project](#)



## Impact – “Climate Change” on Humanity

Economic Transience to a Powerful, Resilient & Sustainable Future -a Journey - **BC** to **PC**

आज लिखेंगे कल Today we are writing, about Tomorrow

Open House Knowledge sharing - An Interactive Session

Dr YP Chawla -Ex. Advisor JERC Ministry of Power Govt. of India and a Visiting Faculty- Business Schools ;  
[ypchawla1101@gmail.com](mailto:ypchawla1101@gmail.com); +91-98107-08707 (Only WhatsApp Calls and Messages) , +61492 893 229

# Natural disasters



Tornado



Tropical Cyclone



Drought



Volcano



Wildfire



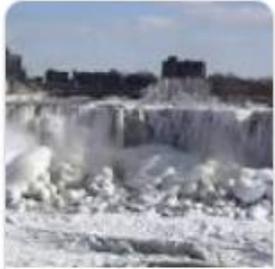
Heat wave



Storm



Winter storm



Cold wave



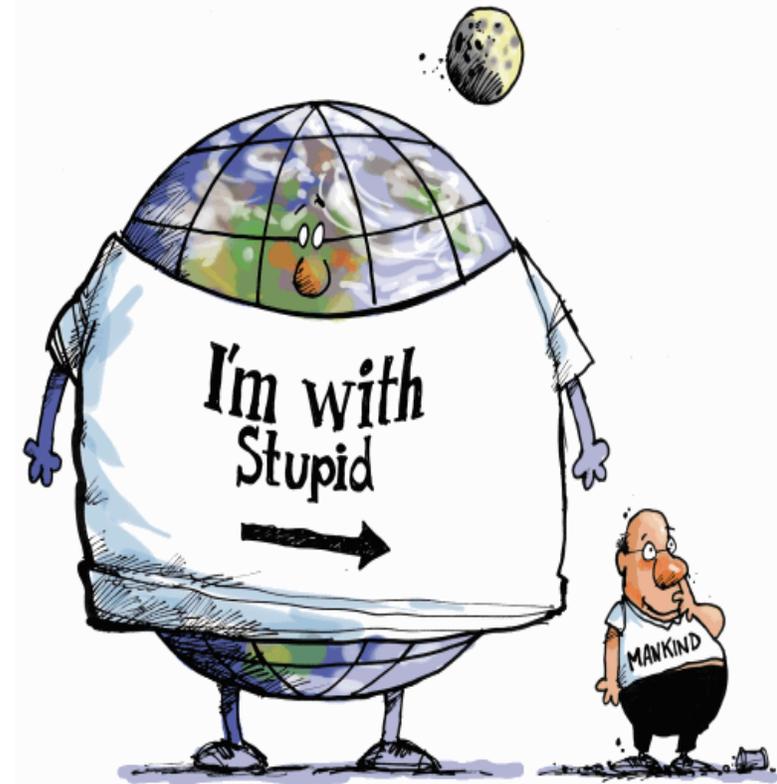
Cyclone

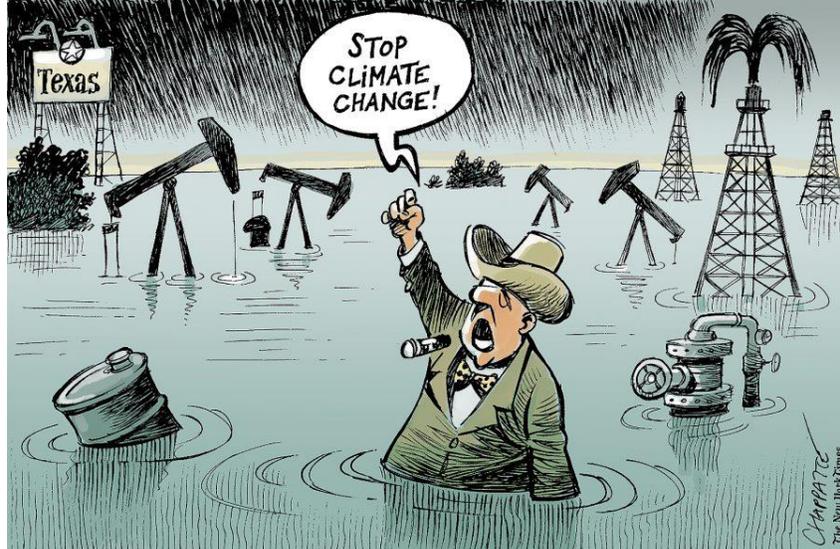


Blizzard

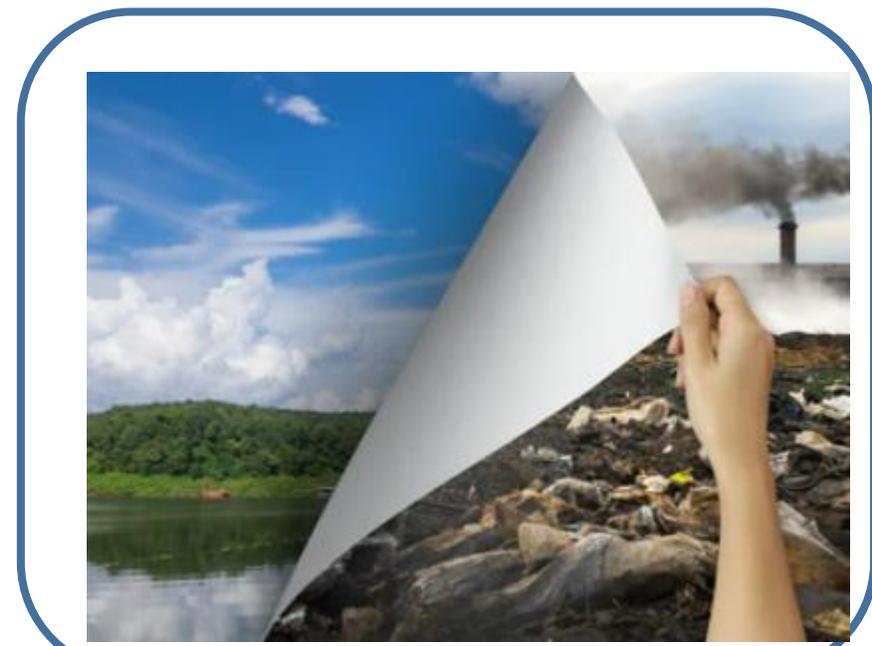


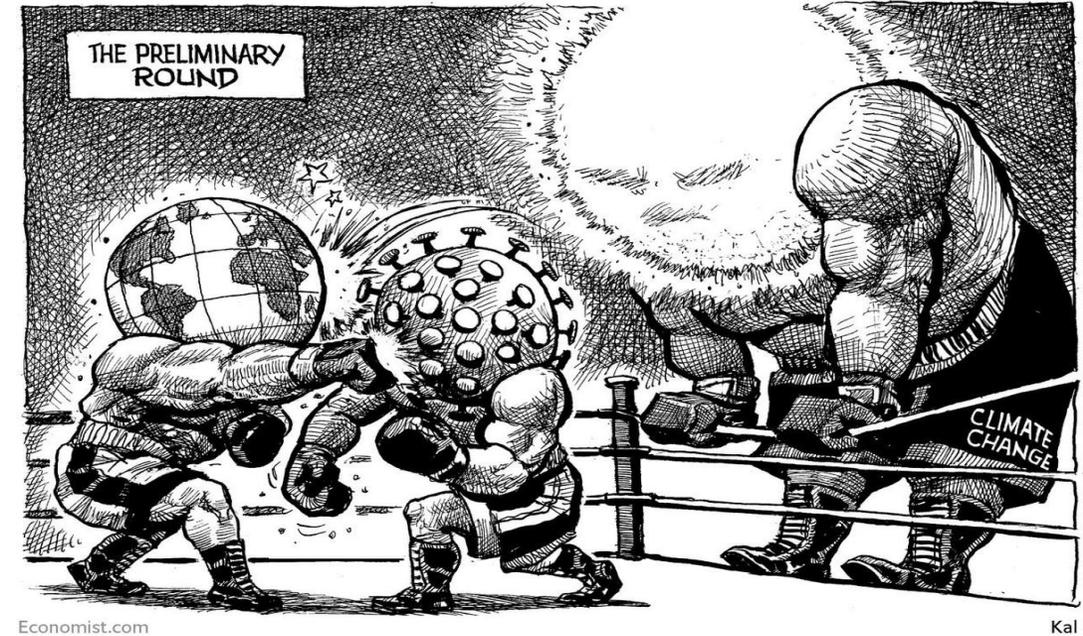
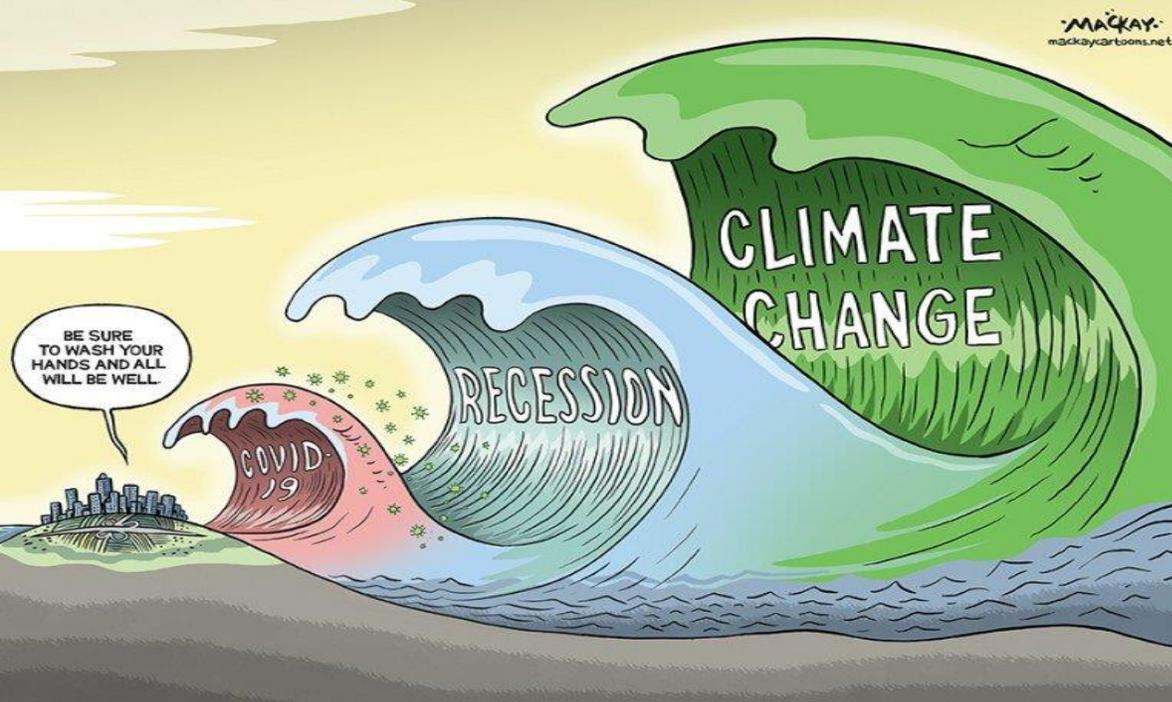
Storm surge





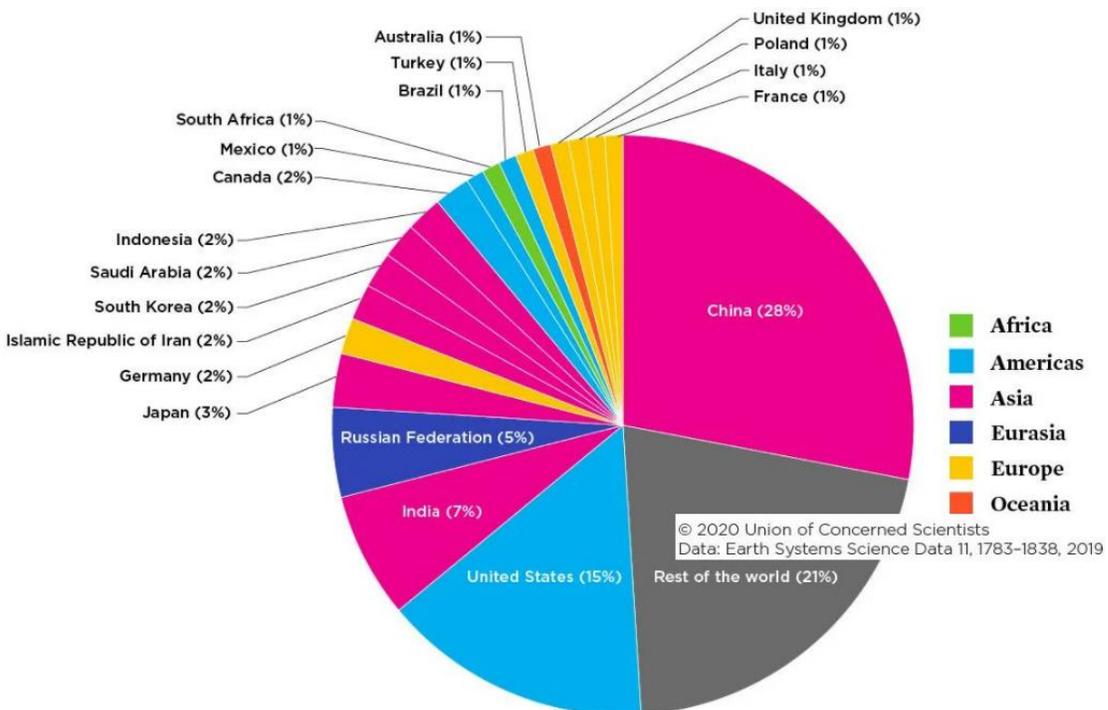
## CLIMATE CHANGE





Economist.com

Kal



Climate Crises bigger concern than pandemic for Australian Businesses  
Study by Ernst and Young- Reflects pressure from Investors to make sustainability a priority  
in decision making.

Ben Butler – The Guardian (Australia's senior business reporter) 24 Feb 2021

It is a cue to all of us wherever we are as share holders or stakeholders

### Natural Disasters in Australia 2015-2021 ( July)

| <u>Event</u>  | Year      | Death toll | Material destruction  | Estimated Cost               |
|---|-----------|------------|---|------------------------------|
| <a href="#"><u>Pinery bushfire</u></a>                | 2015      | 2          |   |                              |
| <a href="#"><u>Carwoola bushfire</u></a>              | 2017      | 0          | 56 buildings.   |                              |
| <a href="#"><u>Cyclone Debbie</u></a>                 | 2017      | 14         |   | 2,730,000,000 USD (2017).    |
| <a href="#"><u>Tathra bushfire</u></a>                | 2018      | 0          | 69 homes.   |                              |
| <a href="#"><u>2019–20 bushfire season</u></a>        | 2019-2020 | <u>34</u>  | <a href="#"><u>10,000+ buildings[8]</u></a>                         | 103,000,000,000              |
| <a href="#"><u>Wooroloo bushfire</u></a>              | 2021      |            | <a href="#"><u>86 buildings, 10,900 hectares (27,000 acres)</u></a> |                              |
| <a href="#"><u>2021 Eastern Australian floods</u></a> | 2021      | 3          |   | A\$ 1,000,000,000 (estimate) |

[https://en.wikipedia.org/wiki/List\\_of\\_natural\\_disasters\\_in\\_Australia#cite\\_note-1](https://en.wikipedia.org/wiki/List_of_natural_disasters_in_Australia#cite_note-1)

Two massive storms have converged over eastern Australia, dumping more than three feet of rain in just five days. In a country that suffered [the worst wildfires in its recorded history](#) just a year ago, the deluge has become another record-breaker — a once-in-50-years event, or possibly 100, depending on the rain that's expected to continue through Tuesday night.

Nearly 20,000 Australians have been forced to evacuate, and more than 150 schools have been closed. The storms have [swept away](#) the home of a couple on their wedding day, prompted at least 500 rescues and drowned roads from Sydney up into the state of Queensland 500 miles north.

<https://www.nytimes.com/2021/03/22/world/australia/australia-floods.html>

<https://www.youtube.com/watch?v=XI0R6VrWA8Q>



It doesn't get much better for a volunteer than saving a beautiful baby boy. With his mum's permission, we are very proud to share a photo of this little tacker in the arms of a [NSW SES Ryde Unit](#) volunteer. The challenging but successful Londonderry rescue saved the 5 month old infant, a child, 4 adults and 3 dogs.

<https://www.facebook.com/161915310538531/photos/a.211637385566323/4062788433784513/?type=3>



# Temperature (°C)

## Highest

| State              | Place name                | Temp. | Date             | Station No. |
|--------------------|---------------------------|-------|------------------|-------------|
| South Australia    | Oodnadatta Airport        | 50.7  | 2 January 1960   | 17043       |
| Western Australia  | Mardie                    | 50.5  | 19 February 1998 | 5008        |
| New South Wales    | Wilcannia Post Office     | 50.0  | 11 January 1939  | 46043       |
| Queensland         | Birdsville Police Station | 49.5  | 24 December 1972 | 38002       |
| Victoria           | Hopetoun Airport          | 48.8  | 7 February 2009  | 77010       |
| Northern Territory | Finke Post Office         | 48.3  | 2 January 1960   | 15226       |
|                    | Finke Post Office         | 48.3  | 1 January 1960   | 15526       |
| Tasmania           | Scamander                 | 42.2  | 30 January 2009  | 92094       |



## Lowest

| State              | Place name                 | Temp. | Date           | Station No. |
|--------------------|----------------------------|-------|----------------|-------------|
| New South Wales    | Charlotte Pass             | -23.0 | 29 June 1994   | 71003       |
| Tasmania           | Liawenee                   | -14.2 | 7 August 2020  | 96033       |
| Victoria           | Falls Creek                | -11.7 | 3 July 1970    | 83071       |
|                    | Omeo Comparison            | -11.7 | 15 June 1965   | 83025       |
| Queensland         | Warwick (The Hermitage)    | -10.6 | 12 July 1965   | 41004       |
|                    | Stanthorpe (Leslie Parade) | -10.6 | 23 June 1961   | 41095       |
| South Australia    | Yongala                    | -8.2  | 20 July 1976   | 19062       |
| Northern Territory | Alice Springs Airport      | -7.5  | 17 July 1976   | 15590       |
| Western Australia  | Eyre                       | -7.2  | 17 August 2008 | 11019       |



# Highest rainfall (mm)

## Daily

| State              | Place name              | Rainfall | Date             | Station No. |
|--------------------|-------------------------|----------|------------------|-------------|
| Queensland         | Crohamhurst             | 907.0    | 3 February 1893  | 40062       |
| New South Wales    | Dorrigo (Myrtle Street) | 809.2    | 21 February 1954 | 59067       |
| Western Australia  | Whim Creek              | 747.0    | 3 April 1898     | 4042        |
| Northern Territory | Dum In Mirrie Airstrip  | 562.0    | 11 January 2020  | 14277       |
| Victoria           | Tanybryn                | 375.0    | 22 March 1983    | 90076       |
| Tasmania           | St Marys (Cullerswood)  | 352.0    | 22 March 1974    | 92009       |
| South Australia    | Motpena                 | 272.6    | 14 March 1989    | 17098       |



## Monthly

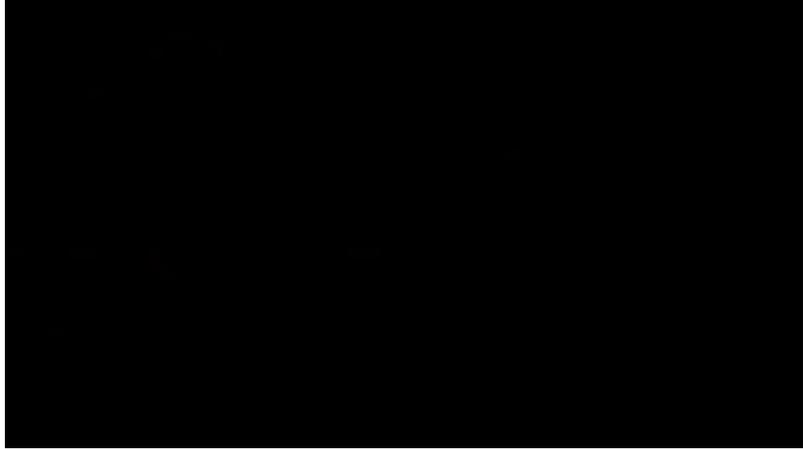
| State              | Place name                  | Rainfall | Date         | Station No. |
|--------------------|-----------------------------|----------|--------------|-------------|
| Queensland         | Bellenden Ker (Top Station) | 5387.0   | January 1979 | 31141       |
| New South Wales    | Upper Crystal Creek         | 1620.6   | January 1974 | 58150       |
| Western Australia  | Kuri Bay^                   | 1540.4   | January 2011 | 1009        |
| Northern Territory | Redbank Mine                | 1252.1   | January 2003 | 14718       |
| Victoria           | Falls Creek                 | 989.6    | July 1964    | 83037       |
| Tasmania           | Mount Mawson                | 984.0    | October 1988 | 95053       |
| South Australia    | Balcanoona                  | 676.0    | March 1989   | 17010       |



## Annual

| State              | Place name                  | Rainfall | Year | Station No. |
|--------------------|-----------------------------|----------|------|-------------|
| Queensland         | Bellenden Ker (Top Station) | 12461.0  | 2000 | 31141       |
| Tasmania           | Mount Read*                 | 4998.4   | 2016 | 97085       |
| New South Wales    | Tallowood Point             | 4539.7   | 1950 | 59066       |
| Northern Territory | Lake Evella                 | 3866.6   | 2011 | 14515       |
| Victoria           | Falls Creek                 | 3738.5   | 1956 | 83037       |
| Western Australia  | Doongan                     | 2461.8   | 2011 | 1025        |
| South Australia    | Aldgate                     | 1852.6   | 1917 | 23768       |





Video Global Climatic Disasters- 2020

Video Global Climatic Disasters- July 2021



Video Europe and USA Climatic Disasters-

Video Big Disaster Vanishing Sea Uzbekistan



# Agriculture Sector- Australia

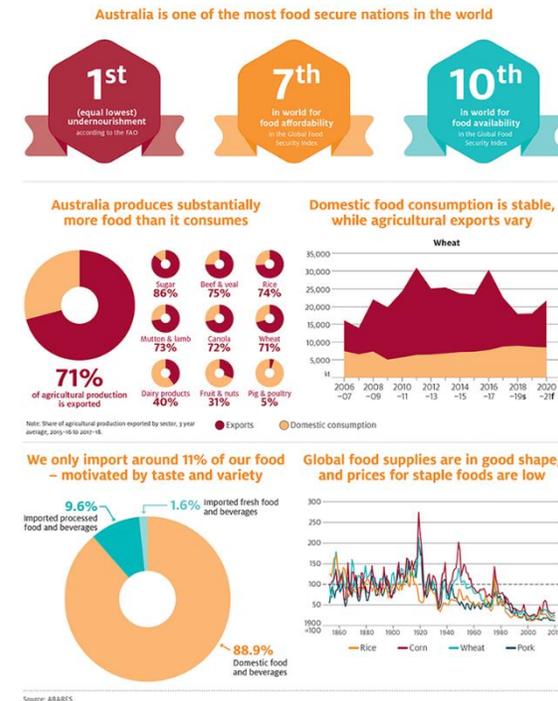
## SUPPORTING AGRICULTURE TO ADAPT TO CLIMATE CHANGE ECONOMIC IMPACT ON CATTLE, MILK AND WHEAT SECTORS

| Agricultural commodity | 2016/17 value   | 2029/30 value (real) |
|------------------------|-----------------|----------------------|
| Cattle                 | \$12.14 billion | \$8.36 billion       |
| Milk                   | \$3.69 billion  | \$2.65 billion       |
| Wheat                  | \$7.37 billion  | \$5.28 billion       |

Note: Values are in real terms; the real figures are adjusted for inflation of 2.5% per year; based on the Reserve Bank of Australia's target; table only reflects yield declines (rather than changes in production costs or land use)

SOURCE: ACIL ALLEN CONSULTING

Source : <https://www.agriculture.gov.au/sites/default/files/sitecollectiondocuments/a-g-food/drought/exec-summary-1.pdf>



Agriculture sector contributes 13.2 per cent to total Australians emissions, this proportion will increase if other sectors decrease their emissions. Action is required, especially given that some importers, like the European Union, are increasingly focused on the emissions intensity of their imports.

### Future climate is being determined by three factors:

1. The **emissions scenario that is being most closely tracked** (the scenarios are described by Representative Concentration Pathways (RCPs)),
- 2 The **response of the climate system** to that scenario, and
- 3 **Natural variability.**

# In Australia Nine Agricultural commodities are assessed:

- the top commodities by value of production,
- plus some additions which make a major contributor to one of more jurisdictions, Like
  - i. cattle,
  - ii. milk (dairy),
  - iii. wheat,
  - iv. sugar cane,
  - v. cotton,
  - vi. potatoes,
  - vii. wine,
  - viii. mangoes and melons.
- Some of these have a strong affinity to similar commodities (i.e. wheat to coarse grains).
- Others have a particular susceptibility to climate change impacts given their specific growing requirements, such as cotton, given high water use; viticulture, given high sensitivity to changes in temperature and heatwave stress, etc.

The largest single source of agricultural emissions, the impact from emissions management is likely to be most significant for the cattle sector.

The **focus on yield and productivity obscures other critical effects**, such as impacts on quality, marketability and price; seasonal shifts in production, which **potentially affect market windows**, competitive advantages and price; and **changed distributions of pests and diseases**, which will bring increased costs of management and challenges for export market access.

**Biosecurity:** Stakeholders feel that increases in the prevalence of pests and diseases could lead to reduced yields and/or reduced income for agricultural producers. Pests and diseases are also seen as having the potential to destroy much of the asset value related to carbon offsets.

**Supply chains:** Stakeholders are seeing an opportunity to build on Australia's reputation for clean, green products. If agricultural emissions are curbed, coupled with appropriate marketing, Australian agricultural products would be well positioned to obtain a premium in the marketplace. Stakeholders identified that action is required to facilitate this opportunity and to also address possible disruptions to the supply chain arising from climate change.

**Social cohesion:** Stakeholders noted that the movement of agricultural production **to more suitable climatic zones, enterprise consolidation, and the increased frequency of local and regional extreme weather events**, are **impacting on rural and regional communities and individual farmers**. Economic and social effects and impacts on the viability of a number of rural townships and regional centres (especially those which are solely or primarily reliant on agriculture as the key economic driver)

**Land use:** Stakeholders observe that agricultural producers may expand their areas of operation to allow for the possibility that the region(s) they are currently operating in may become less productive or suitable for their agricultural activities over time leading to land use conflicts.



A swarm of *Locusta migratoria* in central Queensland

The Australian plague locust, *Chortoicetes terminifera*, is the most important pest species of locust in Australia due to the large areas infested, the frequency of outbreaks and its ability to produce several generations in a year.



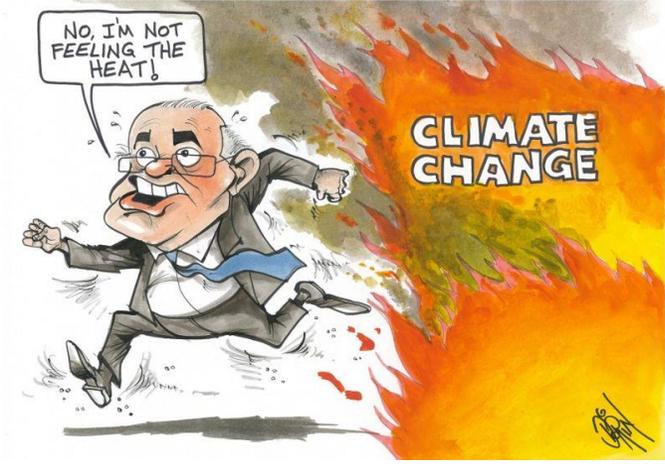
Video on Locust

Video 1– Agricultural Impact



Video 2 – Agricultural Impact





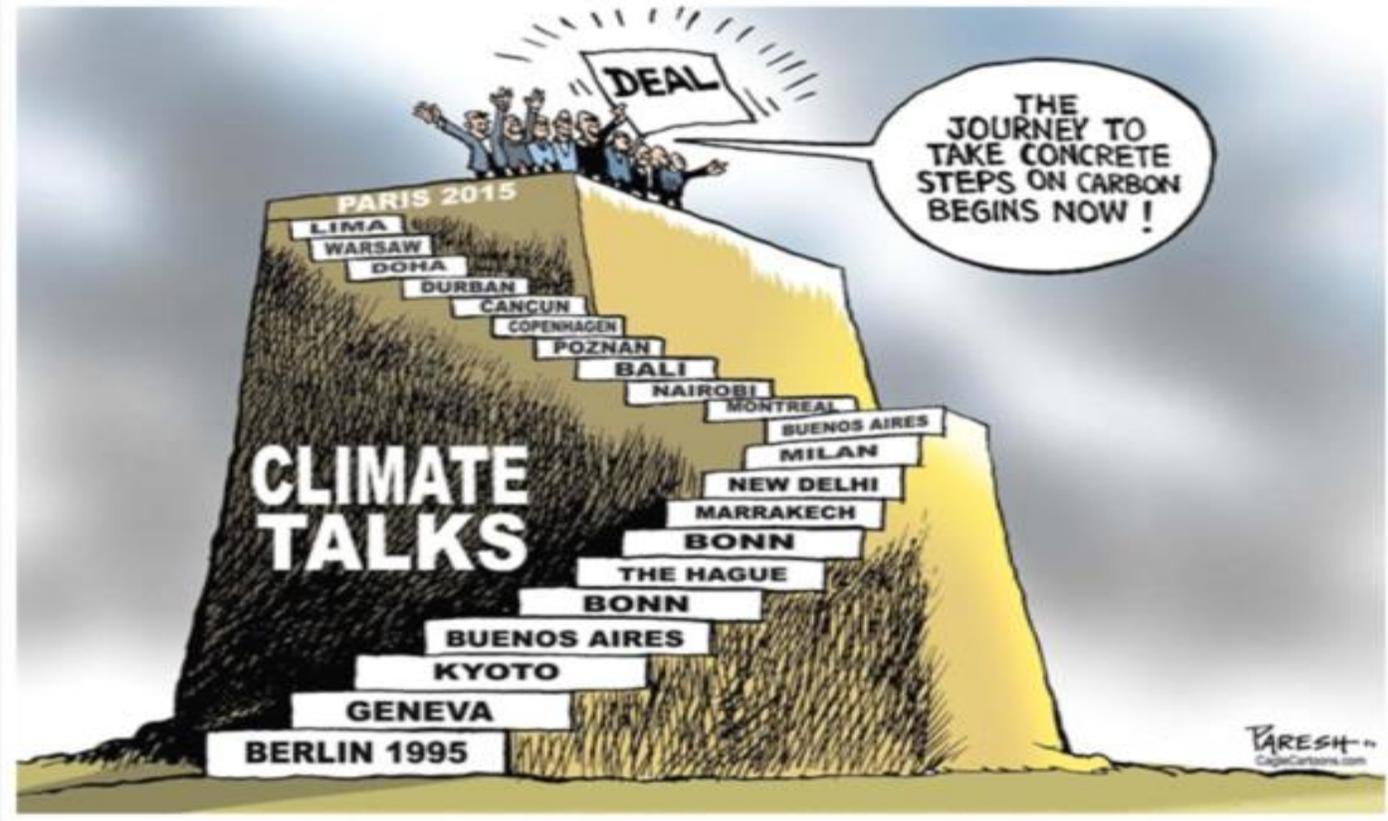
**Climate policy certainty till recently:** The lack of a consistent long-term policy on climate change has created a **stop-start** approach to measures to manage emissions and the impacts of climate change. Stakeholders perceive that the **uncertainty that pervades policy in this area** has hampered longer term thinking and action by the sector. This has reduced the willingness of industry, markets and governments **to make investments in long lived infrastructure or land use changes to help mitigate climate change due to the uncertainty around whether policies will remain in place long enough to deliver a positive return on investment (ROI).**

***“Climate deniers,” too often to shut down discussions rather than encourage it.”***

***Business Lobbyists from affected businesses***

How to Talk About Climate Change across the Political Divide-A book by **Katharine Hayhoe**, an atmospheric scientist and evangelical Christian, laying out strategies for discussing the climate crisis in a divided country

***<https://www.newyorker.com/news/on-religion/how-to-talk-about-climate-change-across-the-political-divide>***



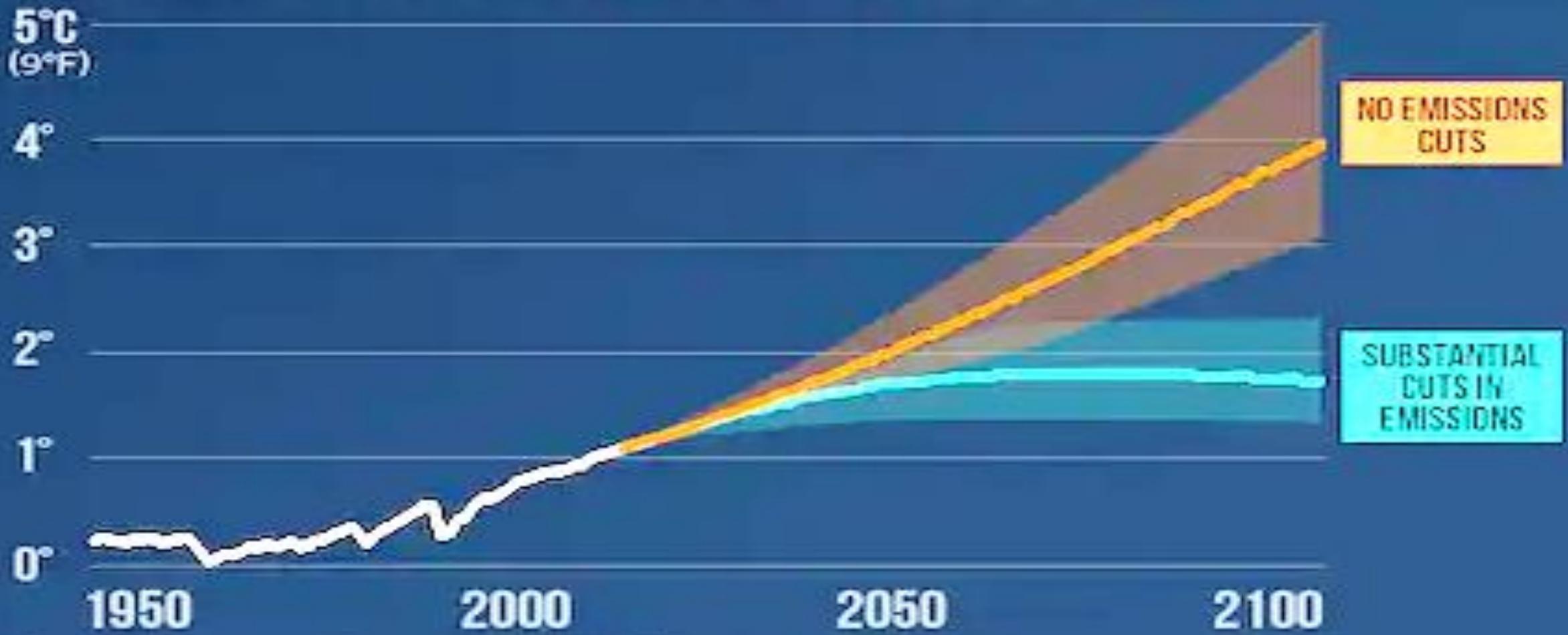
The world has reached a consensus after so many steps every country defending their respective agenda.



'Every little bit counts'

# FUTURE TEMPERATURES

## WARMING DEPENDS ON CHOICES TODAY



Global surface temperature (°C) anomaly relative to 1850-1900  
High warming scenario: SSP3-7, Low warming scenario from SSP1-2.6.  
Source: IPCC AR6 WG1

# Heavy precipitation over land 10-year event

Frequency and increase in intensity of heavy 1-day precipitation event that occurred **once** in 10 years on average in a climate without human influence





Small and medium scale disasters

Build Back Better

Standardised reporting methods

Owner-driven reconstruction

Psychology of decision making



Role of sub-national governments



**Coalition of Disaster Recovery of Infrastructure**

|   |                          |   |                |
|---|--------------------------|---|----------------|
|      | Afghanistan              |      | Australia      |
|    | Argentina                |    | Bangladesh     |
|    | Bhutan                   |    | Brazil         |
|    | Canada                   |    | Chile          |
|    | Fiji                     |    | France         |
|    | Germany                  |    | India          |
|    | Italy                    |    | Jamaica        |
|    | Japan                    |    | Maldives       |
|    | Mauritius                |    | Mongolia       |
|   | Nepal                    |   | Netherlands    |
|  | Peru                     |  | Sri Lanka      |
|  | Turkey                   |  | United Kingdom |
|  | United States of America |   |                |

|   |  |
|---|--|
|    | Asian Development Bank (ADB)                                 |
|    | World Bank Group   |
|    | United Nations Development Programme (UNDP)                  |
|    | United Nations Office for Disaster Risk Reduction (UNDRR)    |
|   | The Private Sector Alliance for Disaster Resilient Societies |
|  | Coalition for Climate Resilient Investment                   |
|  | European Union   |

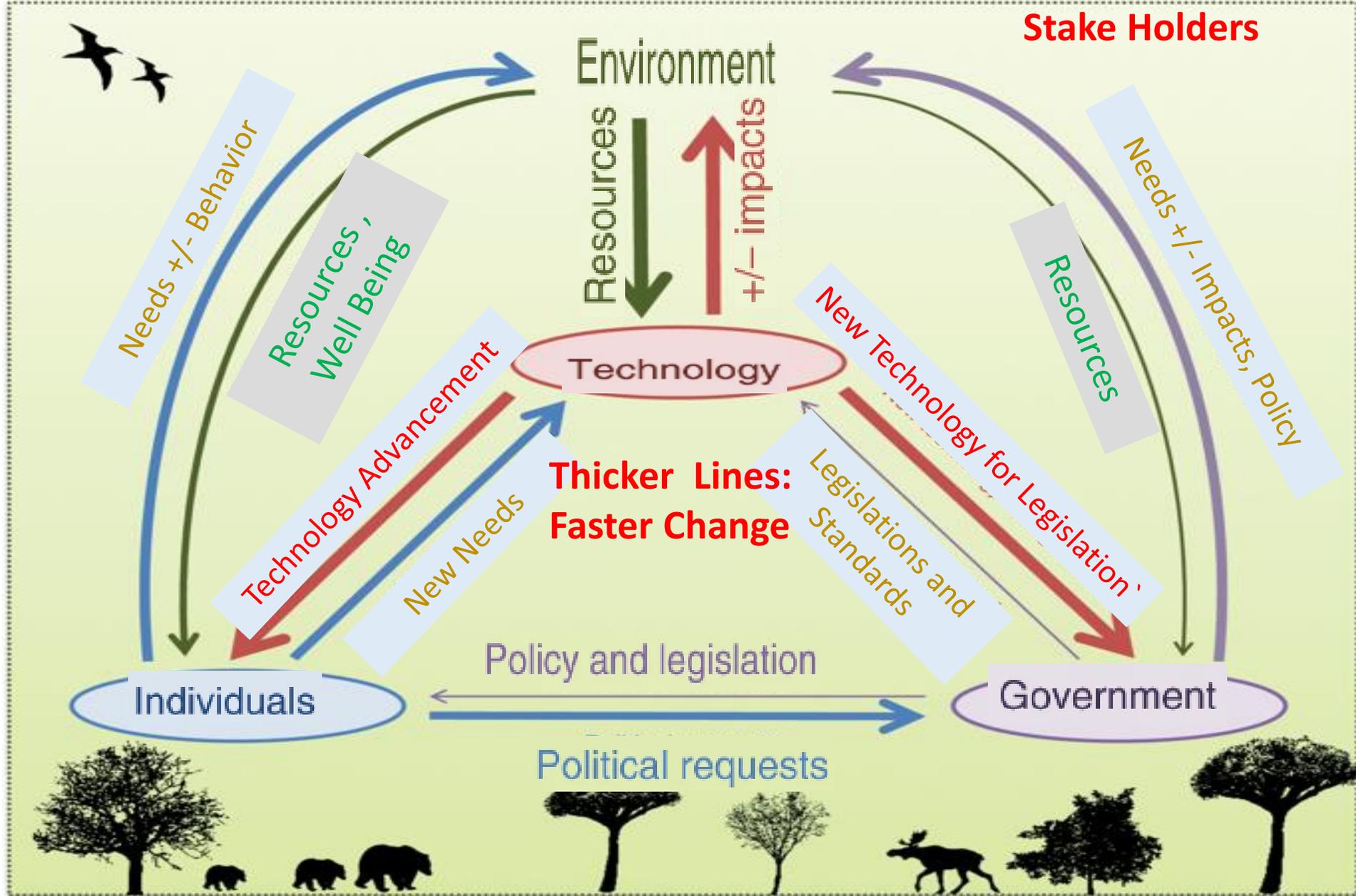
# Move “Faster, further, fairer” - The Report AR6

6<sup>th</sup> Assessment Report of Intergovernmental Panel for Climate Control IPCC

- The Report finds that humans are the lead cause for rising global surface temperatures, and it goes so far as to indicate that since 1970, temperatures have risen faster than in any other 50-year period over the past 2,000
- wildfires rage out of control in California, flash floods in Tennessee and Germany, and a number of single-day high-temperature records across the planet
- findings of this report are **certainly stark**, they are **none too surprising**.
- government to set an ambitious 2030 emissions reduction target, including – for the first time – embedded carbon from imported goods is being considered.
- **Tax and Trade or Technology and Trade or Trade- Technology- Tax**
- **Climate change: Universities should lead research effort**
- <https://www.universityworldnews.com/post.php?story=20210823143951165> [Wagdy Sawahel](#) 26 August 2021
- <https://education.nsw.gov.au/teaching-and-learning/curriculum/key-learning-areas/science/stage-6/earth-and-environment>
- <https://guides.dtwd.wa.gov.au/nmtafe-amep/environment>
- <https://info.australia.gov.au/about-australia/our-country/our-natural-environment>







**Environment is - an underlying layer providing the “planetary boundaries” to the mentioned interactions.**

Wednesday 15.09.2021  
 NEW DELHI  
 WISE WORDS  
 The true adventurer goes forth aimless and uncalculating to meet and greet unknown fate.  
 G. HENRY  
 Hindustan Times  
 FIRST VOICE LAST WORD

Legend boys out  
**JASTIN HALLIGRA RETIRES FROM ALL FORMS OF CRICKET**  
 Sri Lanka

Football  
**CHAMPIONS LEAGUE OPENER: MESSI, NEYMAR ARE BACK IN PSG SQUAD**

Ray of hope  
**BOO TO BRING WOMENLY MAMMOTH BACK FROM EXTINCTION**

Human rights council session begins  
**CLIMATE CHANGE, NATURE LOSS, POLLUTION BIGGEST THREATS: UN**  
 UN rights chief warns of the worsening ecological situation across the globe that must be urgently addressed.

# Environmental threats 'greatest challenge to human rights': UN

*UN rights chief warns of the worsening ecological situation across the globe that must be urgently addressed.*

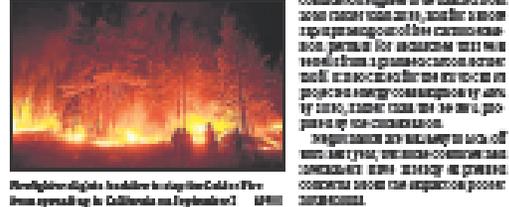
<https://www.aljazeera.com/news/2021/9/13/environment-to-become-biggest-challenge-to-human-rights-un>

# 'Climate change, nature loss, pollution biggest threat to human rights'

**PARIS** — The United Nations rights council on Wednesday said that climate change, nature loss and pollution are the biggest threats to human rights.

The council's annual session in Geneva was opened by UN High Commissioner for Human Rights Michelle Alexander. She said that the world is facing a "crisis of human rights" because of the environmental damage caused by climate change, nature loss and pollution.

Alexander said that the world is facing a "crisis of human rights" because of the environmental damage caused by climate change, nature loss and pollution. She said that the world is facing a "crisis of human rights" because of the environmental damage caused by climate change, nature loss and pollution.



Wildfire flames explode in a California on September 1, 2018

**'World faces growing risk of food shortages due to climate change'**

**WASHINGTON** — The world is facing a growing risk of food shortages due to climate change, according to a report from the United Nations.

The report, released by the UN's World Food Programme (WFP), says that climate change is causing a decline in crop yields and a rise in food prices. It also says that climate change is causing a rise in the number of people who are hungry and malnourished.

The report says that the world is facing a growing risk of food shortages due to climate change. It says that climate change is causing a decline in crop yields and a rise in food prices. It also says that climate change is causing a rise in the number of people who are hungry and malnourished.



Human rights such as access to water are increasingly under threat by environmental 'threat multipliers' [Mike Hutchings/Reuters]

- [COP26 urged to prioritise adaptation as climate emergency surges](#)
- [Why has climate change caused famine in Madagascar?](#)
- [China, US deal on climate change fails before COP26: report](#)
- [Amazon's Carbon Crisis: How fire could accelerate climate change](#)



For Sustainable Development- AI Collaboration for Industry specific to Climate Control to Excel and Our actions and Operations are to meet the following Standards



**Zero Wastages**



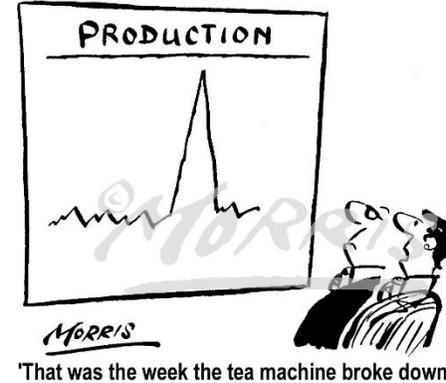
**Zero Breakdown**



**Zero Effluent Discharge (ZED)**



**100 % Ecological Balance**



**100% Motivated Team for Productivity and Production Increase**



**100% Customers' Delight**

# We have to work for Reducing foot Prints of depleting resources and damaging Resources



**Carbon**



**Water**



**Wastage**



**Video  
Ticking Clock  
Time Running  
Out**

**Go Green**



Time is running out



Humanity  
Threatened  
due to Rising  
Sea Levels



World's most populated islands (10 million+ inhabitants)

| Caribbean  |   | Pacific  |   | Africa, Indian Ocean, Mediterranean and South China Sea (AIMS) |   |
|--|---|--|---|--|---|
| Anguilla <sup>[</sup>                            |    | American Samoa                                 |    | Bahrain  |  |
| <a href="#">Antigua and Barbuda</a>              |    | Cook Islands                                   |    | Cape Verde   |  |
| Aruba <sup>[f][g]</sup>                          |    | <a href="#">Federated States of Micronesia</a> |    | Comoros  |  |
| <a href="#">Bahamas</a>                          |    | <a href="#">Fiji</a>                           |    | Guinea-Bissau  |  |
| <a href="#">Barbados</a>                         |    | French Polynesia                               |    | Maldives   |  |
| <a href="#">Belize</a>                           |    | Guam   |    | <a href="#">Mauritius</a>                                      |  |
| British Virgin Islands <sup>l</sup>              |    | Kiribati                                       |    | São Tomé and Príncipe  |  |
| Cuba <sup>[e]</sup>                              |    | <a href="#">Marshall Islands</a>               |    | <a href="#">Seychelles</a>                                     |  |
| <a href="#">Dominica</a>                         |    | <a href="#">Nauru</a>                          |    | Singapore  |  |
| Dominican Republic <sup>[g]</sup>                |    | New Caledonia                                  |    |  |   |
| <a href="#">Grenada</a>                          |    | Niue <sup>[c]</sup>                            |    |  |   |
| <a href="#">Guyana</a>                           |    | Northern Mariana Islands                       |    |  |   |
| Haiti <sup>[h]</sup>                             |    | <a href="#">Palau</a>                          |    |  |   |
| <a href="#">Jamaica</a>                          |    | <a href="#">Papua New Guinea</a>               |    |  |   |
| Montserrat                                       |    | <a href="#">Samoa</a>                          |    |  |   |
| Netherlands Antilles <sup>[</sup>                |    | Solomon Islands                                |    |  |   |
| Puerto Rico <sup>[a][g][c]</sup>                 |    | Timor-Leste                                    |    |  |   |
| <a href="#">Saint Kitts and Nevis</a>            |    | <a href="#">Tonga</a>                          |    |  |   |
| <a href="#">Saint Lucia</a>                      |   | Tuvalu   |   |  |   |
| <a href="#">Saint Vincent and the Grenadines</a> |  | <a href="#">Vanuatu</a>                        |  |  |   |
| <a href="#">Suriname</a>                         |  |  |   |  |   |
| <a href="#">Trinidad and Tobago</a>              |  |  |   |  |   |
| United States Virgin Islands <sup>[</sup>        |  |  |   |  |   |
| 23 SIDS  |   | 20 Sids  |   | 9 Sids   |   |

**SID= Small Island Developing Nations**

# Engineering sustainability



Sustainable resources



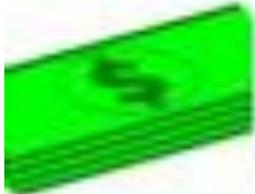
Sustainable engineering processes



Efficiency



Environmental impact



Other sustainability factors

# Green Washing

Help Exposing Green Washing Practices



A protest against greenwashing during the Covid-19 pandemic. Shell, Johnson & Johnson and IKEA are among the corporates that have been accused of using misleading green claims this year. Image: Michael 3131Fornton/Flickr <https://www.eco-business.com/news/8-brands-called-out-for-greenwashing-in-2020/>



## Fiji Water Video Green Washing

Environmental discourse is never far from a deluge of catchy buzzwords. Company mission statements, product packages and branding campaigns are plugged with words like **“sustainable,” “eco,” “forest-friendly,” “recycled,” “net-zero”** and **“green-certified.”** But if you dig under the surface of **these smiling, climate-conscious facades**, the **reality is often more telling.** “Greenwashing”, or **making unsubstantiated green claims**, has become the **foil of global climate action.** And there’s plenty of **greenwashing in Japan too.**

**Tokyo 2020**, which is ostensibly aligned with the UN’s 17 sustainable development goals (SDGs), provides a few examples. Among the Games’ Gold Partners (i.e., biggest sponsors) are some of Japan’s wealthiest corporations, including SMBC and Mizuho, whom the **No Coal Japan** coalition point to as primary greenwashing offenders.

<https://www.tokyoweekender.com/2021/07/greenwashing-in-japan/>

An ASIC review addressing the threat of “greenwashing” aims to improve governance and accountability in the market, writes Commissioner Cathie Armour GAICD. <https://asic.gov.au/about-asic/news-centre/articles/what-is-greenwashing-and-what-are-its-potential-threats/> This article was first published in AICD’s **Company Director** magazine in July 2021.

- Future Proof our Business
- Future Proof our profession, Skills, qualification
- We are heading towards a Gig Economy

**Donate what you don't use** – clothes, books, furniture, food! By donating you also contribute to other goals aiming towards no poverty, zero hunger and reduced inequalities.

- **Use refillable water bottles and coffee cups**
- **Use reusable cloth bags** rather than plastic

**Action : Personally- to be a warrior for Climate Control**

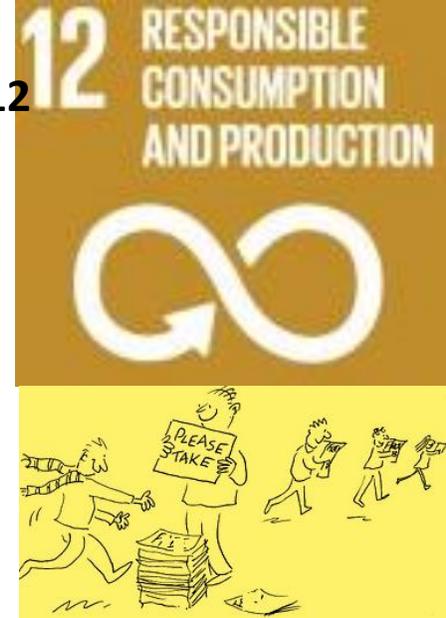
**SD Goal 3: Good health and wellbeing, target SDG 3.5**

- **Remain Mentally and Emotionally Fit during and Post COVID-19**
- **Be the change that you want to see the World to be**

**Alarm Action Climate Control**  
**It is time now**



**Sustainable  
Development Goal-12**



**Science is about Knowing. Engineering is about Doing .....**Henry Petroski  
[Henry Petroski | Duke Civil and Environmental Engineering](#)

Professor **Petroski** is author of the book, *To Engineer Is Human*

**Science is discovering essential truths about what exists in the Universe.**  
**Engineering is about Creating things that never existed .....**Elon Musk

South African entrepreneur **Elon Musk** is known for founding Tesla Motors and SpaceX, which launched a landmark commercial spacecraft in 2012.

# ACTIONS: ARMED CHAIR WARRIORS- CONTRIBUTE TO SDGs FROM YOUR COUCH

**Share message on Climate Control**, don't just like 

Interesting social media post about **climate change**, **share it so folks in your network see it too.**

**Speak up!** Ask your local and national authorities to engage in initiatives Useful for the planet.

**Turn off the lights.** Your TV or computer screen provides a cosy glow, turn off other lights if you don't need.

**Save electricity** by turning off appliances when not in use – and use **energy friendly light** bulbs

**Turn off the light** and take advantage of the **natural light** instead

**Think before you print!** – And recycle the paper you do use for printing.

- Which font will save me and my business money? – Times New Roman
- Which font will save me and my business money? - Arial
- Which font will save me and my business money? – Century Gothic
- Which font will save me and my business money? - Comic Sans
- Which font will save me and my business money? – Garamond

Which font will save me and my business money? – Century Gothic, size 11

Which font will save me and my business money? – Century Gothic, condensed to 0.4, size 10

Actually just recycle: Paper, plastic, glass, aluminum...

**Take short(er)** showers and save water

**Stay informed on Climate Change**

Offset your carbon emissions!

Organize a No Impact Week at work.

Learning to live more sustainably for starting at least a week

**Be the change Warrior**





**Take Aways for you  
from this  
presentation**



**And  
Now Over to  
You  
For Actions**



**Speak Up against any act that Businesses attempt threatening the Climate**

**SD Goal 12 . Ensure sustainable consumption and production patterns**

( No wastages or Waste Recycling), Responsible consumption and production, target

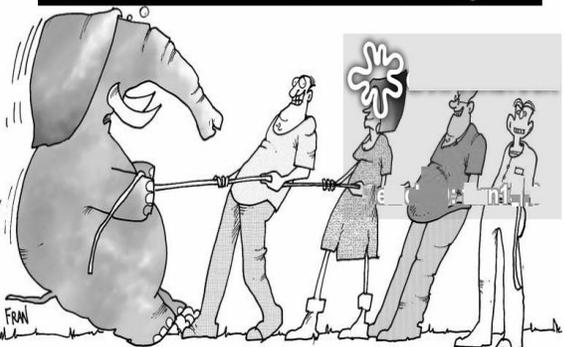
SDG 12.5: substantially reduce waste generation through prevention, reduction, Recycling and Reuse

**Action: All of US (me included)**

Individual action on climate change can include **personal choices in many areas, such as diet, means of long- and short-distance travel, household energy use, consumption of goods and services-Printing of documents, and Font size selection for printing.** Individuals can also **engage in local and political advocacy around issues of climate change.** *You Are Far More Powerful Than You Think. Act Accordingly on Climate Change.*

<https://crowdsourcingsustainability.org/climate-change-can-one-person-really-make-a-difference/>**Action: All of US (me included)**

**We can do ANYTHING if we ALL pull together!**



जब जागो तभी सवेरा

**Whenever you wake up day/ time starts from there**

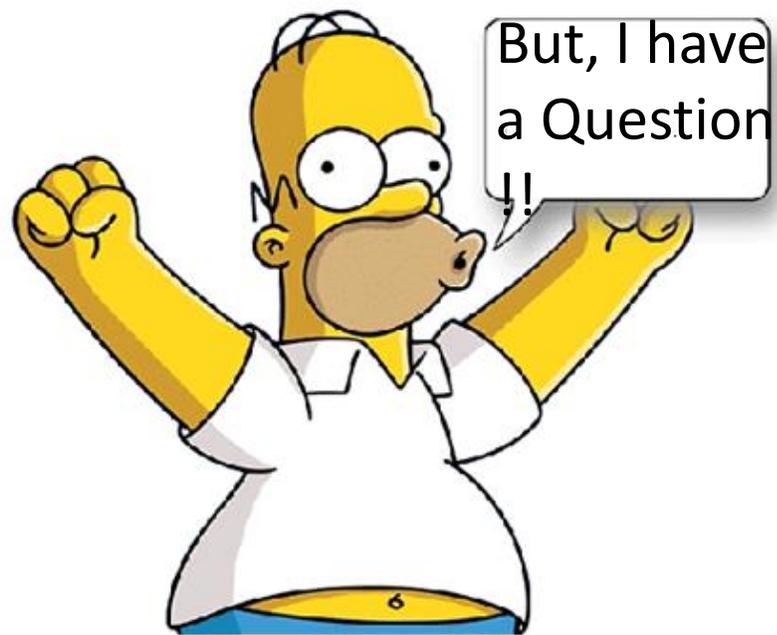
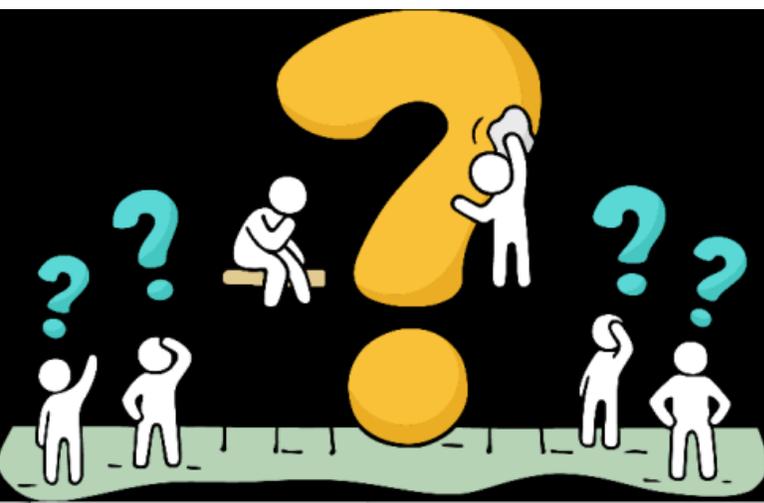
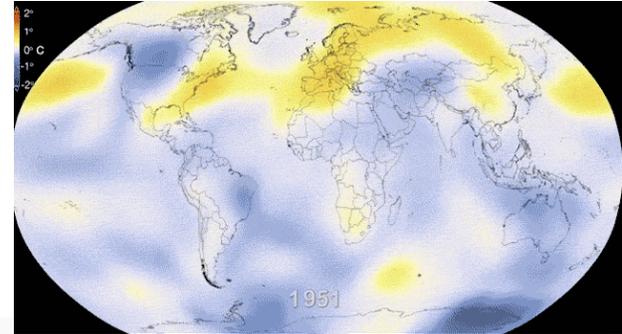
*"I alone cannot change the world, but I can cast a **stone across the waters to create many ripples.**" – Mother Theresa*

*"I always wondered why somebody didn't do something about that. **Then I realized I AM SOMEBODY.**" – Lily Tomlin – an American Actress*

*"Never doubt that a **small group of thoughtful, committed citizens can change the world; indeed, it's the only thing that ever has.**" – Margaret Mead- was an American cultural anthropologist*



thank you



# Optimism in the Face of the UN's New Climate Report

Posted to Franklin Energy in the The Energy Collective Group



[energycentral.com/o/franklin-energy/optimism-face-un's-new-climate-report?utm\\_source=browser&utm\\_medium=push\\_notification&utm\\_campaign=vwo\\_notification\\_16301047...](https://energycentral.com/o/franklin-energy/optimism-face-un's-new-climate-report?utm_source=browser&utm_medium=push_notification&utm_campaign=vwo_notification_16301047...)



*image credit: Photo 120764591 © Ig0rzh | Dreamstime.com*

- <https://energycentral.com/o/franklin-energy/optimism-face-un%E2%80%99s-new-climate-report>

[Global Warming of 1.5°C](#), on [Climate Change and Land](#), and on the [Ocean and the Cryosphere in a Changing Climate](#)

- <https://energycentral.com/o/franklin-energy/optimism-face-un%E2%80%99s-new-climate-report> <https://news.un.org/en/story/2021/08/1097362>



## **NSW floods: a recap of Monday's major events** By Sarah McPhee

- The NSW SES said in excess of 18,000 people statewide have been ordered to evacuate. NSW Premier Gladys Berejiklian said around 15,000 people have been evacuated from homes on the north coast and around 3000 in the Richmond Valley region.
  - There were 1485 requests for assistance made in the 24 hours to Monday night and 125 flood rescues, including 70 in the Sydney area.
  - Parts of western Sydney, including Penrith and Jamison town, were issued all-clear messages and residents were allowed to return home. The Bureau of Meteorology has warned further rises of the Nepean River are possible with forecast rainfall.
  - The Insurance Council of Australia declared an insurance catastrophe after more than 5000 claims were lodged over the weekend following extreme rain and flooding across Sydney and broader New South Wales.
  - Powerhouse Parramatta bosses defended the museum's site following its weekend flooding, saying water levels "would not have come within four meters" of the future building's entrance.
  - The SES is "gearing up teams" from Wollongong south to the border, after the Bureau of Meteorology warned South Coast residents to expect 200 to 300 millimeters of rain.
  - A spokesman from Prime Minister Scott Morrison's office said Emergency Management Australia had received an official request for assistance from the NSW government for two search and rescue helicopters, based out of the South Coast for 24-hour operations. He said the ADF will provide this service from tomorrow.
- <https://www.smh.com.au/national/nsw/nsw-floods-live-updates-western-sydney-residents-told-to-evacuate-as-extreme-weather-event-continues-across-state-20210321-p57cr2.html>

<https://www.youtube.com/watch?v=47TziAWp21A>

Andaman Tusanami

<https://www.youtube.com/watch?v=aTY0nwlGVaY> Pondicherry Tusami

- [https://www.youtube.com/watch?v=XNPiaPy\\_vZM](https://www.youtube.com/watch?v=XNPiaPy_vZM) 2020
- <https://www.youtube.com/watch?v=Ky-DQi3C8Dc> 2021
- <https://www.youtube.com/watch?v=https://www.youtube.com/watch?v=ePrnLACtuWM7Jwh2fDP2qY> 2021

<https://www.youtube.com/watch?v=HmvAIQyvtUE> Locust attack

<https://www.youtube.com/watch?v=iU7qbyv3Wzs> Carbon Fund

<https://www.youtube.com/watch?v=Tgfvymh5ZnsSA> Europe

Agriculture

<https://www.youtube.com/watch?v=Pn28evaXaOU> 10 Most Dramatic