

**30 AUGUST 2023**

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## **PRESENTATION – BOAO FORUM FOR ASIA PERTH 2023**

Fortescue Metals Group Ltd (Fortescue, ASX: FMG) advises that Executive Chairman, Dr Andrew Forrest AO, is presenting at the Boao Forum for Asia Perth on Wednesday, 30 August 2023. A copy of the presentation is attached and a recording of the presentation will be available on Fortescue's website at [www.fortescue.com](http://www.fortescue.com).

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# Forward Looking Statements Disclaimer

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# What's the chance of 1.5°C holding?

## 1 in 50



**We have better odds  
in roulette (1 in 36)**

**But this misses the point**

**There is now an immediate threat**

**It is much more lethal than COVID**

# The fossil fuel industry admits global temperatures are rising

Supran et al (2023)

**But there's something they're  
not telling you...**



# Something else is rising

**Much faster**

**And it's already killing people**

# Could your health already be at risk?

## Yes

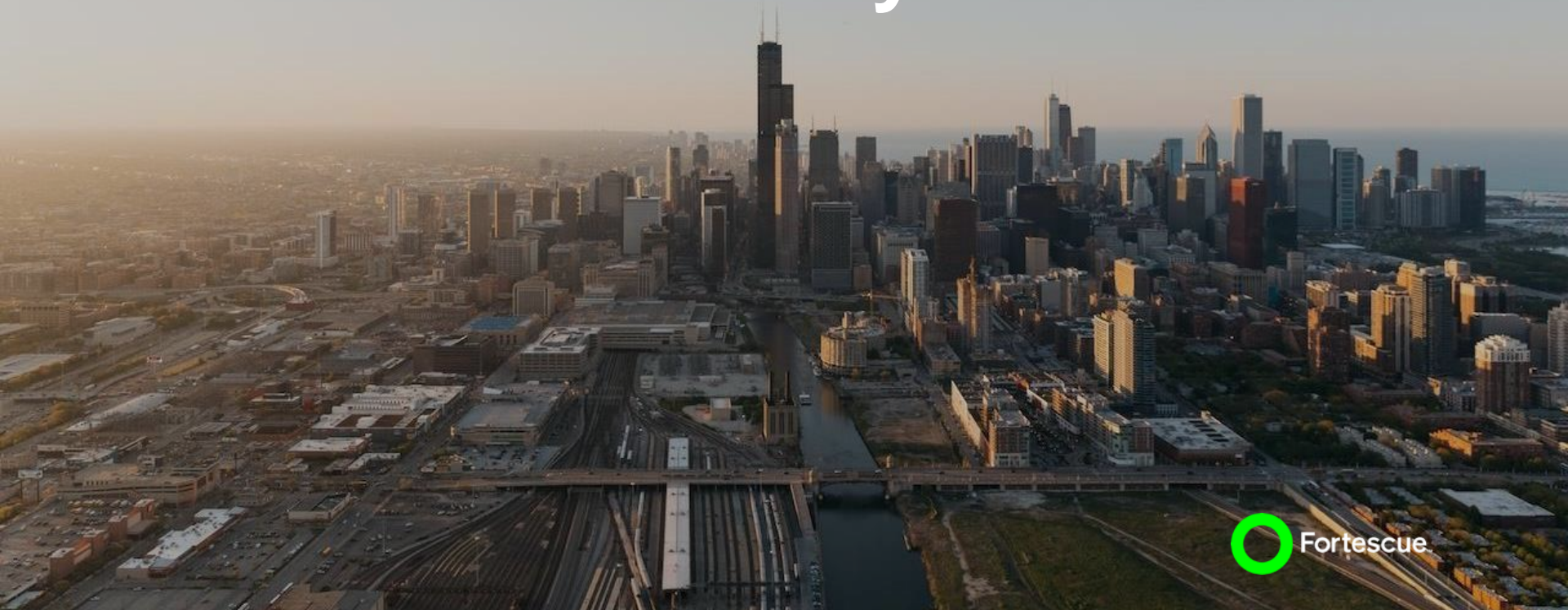
# Humanity is at risk

## Now

Buzan and Huber (2020) & Kang and Eltahir (2018) & Zhang et al (2021) & Saeed et al (2021) & Wang et al (2021) & Vecellio et al (2022) & Freychet et al (2020)



# Can you escape if you live in a city?



# Sure, until the air conditioning fails

Sherwood and Huber (2010)

**You're young and  
work outdoors  
Are you safe?**





# You're at extreme risk

Im et al. (2017) & Abokhashabah (2020) & Vecellio et al (2022) & de Lima et al (2019)  
& Foster et al (2020) & Morris et al (2021)



**So are children, grandparents  
and people who are already ill**

# Why?

# Lethal humidity

Im et al (2017) & Saeed et al (2021) & Wang et al (2021) & Vecellio et al (2022) & Buzan and Huber (2020) & Kang and Eltahir (2018) & Zhang et al (2021) & Raymond et al (2020) & Freychet et al (2020) & Wang et al (2020)

# Normally your sweat cools you down

Osilla et al (2023) & Kovac (2010) & Raymond et al (2020)

**But if it's too humid...**

**Your sweat can't evaporate**  
**Your body heat can't escape**

# Your core temperature starts to rise

Raymond et al (2020) & Vecellio et al (2022)



**At just 35°C, with high humidity,  
you can die in six hours**

**But even temperatures as low as 31°C can kill**

# Lethal Humidity is already here

Columbia University & Saeed et al (2021) & Raymond et al (2020)



**But it's rising**

**For every degree our planet  
warms, humidity rises 7%**

**Lethal Humidity will be  
the next global pandemic**

# Health care systems are straining They will fail

Filip et al (2022)

CONTENITORE MONOUSO PER  
RIFIUTI SANITARI  
PERICOLO  
A RISCHIO INFETTIVO

Fortescue

**This time, there's no cure**

# Your heart rate accelerates



# **Pounding headache**

# **Vomiting**

**Your heart pumps up to 400%  
more blood than normal**

# Within minutes to hours...

**Your body temperature  
will rise to a very dangerous**

**41°C**

**This is the beginning  
of the end**

# The tiny structures that enable you to be alive unravel

A top-down view of a brown cardboard egg carton containing six hard-boiled eggs, arranged in two rows of three. The eggs are sliced horizontally, revealing bright yellow yolks and white albumen. The carton is set against a dark, textured background.

Like an egg, they can't  
be uncooked

# You bleed internally



# Your blood thickens

Harvard Medical School & Kenny et al (2010)





Your organs start to fail

# Hallucinations

# Seizures

# Coma



**Heart attack can  
happen at any time**

# You struggle to breathe



A close-up photograph of a medical procedure being performed on a patient's arm. A healthcare provider, wearing blue nitrile gloves and a black wristwatch, is using a grey medical device on the patient's skin. The patient's arm is resting on a surface covered with crushed ice. Several circular medical sensors are attached to the patient's arm. In the background, a grey basin and a white container with a red label are visible. The text "If you've made it to hospital..." is overlaid in white. The Fortescue logo is in the bottom right corner.

If you've made it to hospital...

**You can have a  
“cardiopulmonary bypass”**

A close-up photograph of medical equipment, likely a perfusion system. A large, clear plastic reservoir on the right is partially filled with red liquid (blood). It has multiple ports with blue and white caps. To its left is a grey and blue machine with various tubes and a black dial. The background is slightly blurred, showing more medical equipment and a person in blue scrubs.

**Your blood is drained, cooled  
then put back in your body**




**Even if you get to a hospital...**

**You're more likely to die than  
survive**

**If you don't make it to hospital**

# You die

Ebi et al (2021) & Sherwood and Huber (2010) & Im et al (2017)

A photograph of a brown and white cow standing in a green field. A small white lamb is perched on the cow's back, facing forward. The background shows rolling green hills and a line of trees under a clear sky.

**All mammals (including you)  
have a new, real and current  
danger**

Sherwood and Huber (2010) & Coffel et al (2018)

**The most affected countries  
are the biggest:**

**China, India and the USA**

# Where much of the world's food comes from

Saeed et al (2021) & Mishra et al (2020) & World Population Review

**But also**

**West Africa**  
**South America**  
**All of Asia**  
**Australia**  
**Central Europe**  
**Middle East**

Coffel et al (2018) & Freychet et al (2020) & Buzan and Huber (2020) & Kang and Eltahir (2018) & Zhang et al (2021) & Saeed et al (2021) & Wang et al (2021)





# What happens next?



# Stampede migration, survival behaviours and border collapse

Horton et al (2021) & Xu et al (2020) & Carril et al (2022)

# Think Central to North America



# Border walls fail

Wall between California and Tijuana Baja California



# Mexico Heatwave

## June 2023

# Think Africa to Europe





# Ethiopia Droughts January 2023

# Think across Asia





**Ballia India Deadly Heat**  
**June 2023**

A construction worker wearing a yellow hard hat and blue gloves is wiping sweat from his forehead with his right arm. He is wearing a white t-shirt with a graphic. The background shows a construction site with blue vertical pipes and yellow machinery.

**Xinjiang China 52.2°C Heat**  
**July 2023**





# Zhouzhou China Flooding August 2023





**Buan, South Korea Dangerous Humidity**  
**August 2023**

# The world has Stockholm Syndrome

# **We are tied to fossil fuels**

**We think we can't survive  
without them**

**But we can...**



**And we must**

**The origination of global warming is the industrial world**

**One major company must go  
first**



**We are Fortescue**

**We are completely decarbonising**



**Real Zero by 2030**

**Decarbonisation  
underway**

**US\$10 billion  
EBITDA (FY23)**





**Iron Ore &  
Critical Minerals**

Green steel,  
battery metals,  
proof of delivery

**Green Energy**

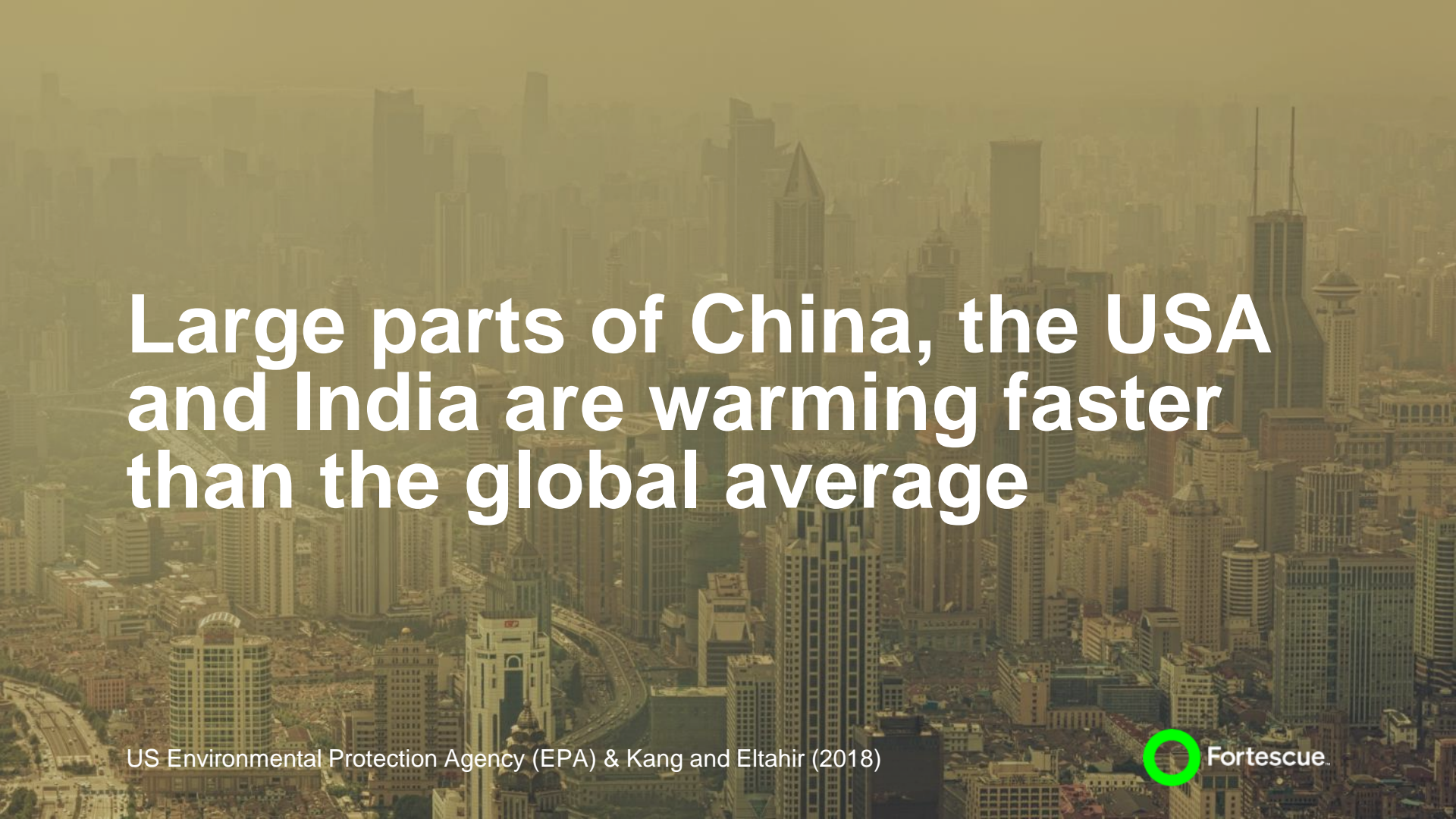
Technologies, electrons,  
innovation, social license

# Creating green energy to replace fossil fuels



# Designing green tech to enable Real Zero

**We are asking China, the USA  
and India to do no more than this**



# Large parts of China, the USA and India are warming faster than the global average

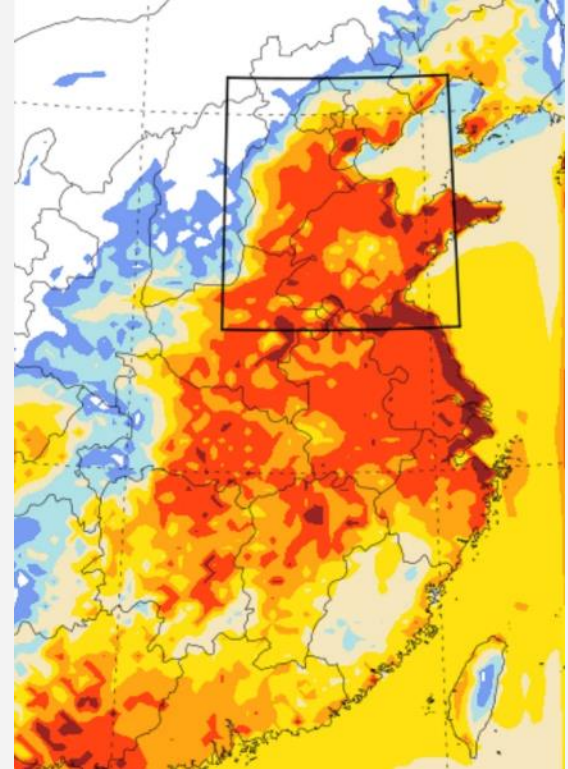
US Environmental Protection Agency (EPA) & Kang and Eltahir (2018)



# **Lethal Humidity conditions are already occurring in parts of East China**

Freychet et al (2020)

**Red marks where  
Lethal Humidity  
will happen, as it  
gets worse**



Kang and Eltahir (2018) & Li et al (2020) & Dawei Li et al (2020)





# North China Plains (400 million) China's “food bowl”

Freychet et al (2020) & Kang and Eltahir (2018)

**One of the most densely  
populated regions in the world**



# Yangtze River Valley

Kang and Eltahir (2018) & Freychet et al (2020)



# Southeastern China

Wang et al (2019)

A wide-angle photograph of the Shanghai skyline across a body of water. The Oriental Pearl Tower is prominent on the left, and the Shanghai Tower is the tallest building on the right. The sky is blue with scattered white clouds.

# Shanghai, Weifang, Jining, Qingdao, Rizhao, Yantai and Hangzhou

Freychet et al (2020) & Kang and Eltahir (2018)

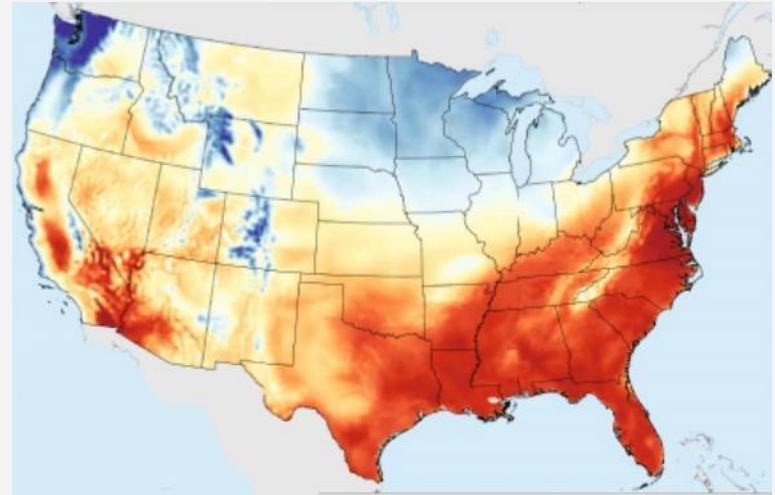




# In the USA, Lethal Humidity occurs at 1.5°C warming

Buzan and Huber (2020) & Freychet et al (2022) & Dawei Li et al (2020)

# Southeast USA is most at risk



Spangler et al (2022)

Raymond and Horton (2017)





# Chicago is vulnerable

Dawei Li et al (2020)

**India?**

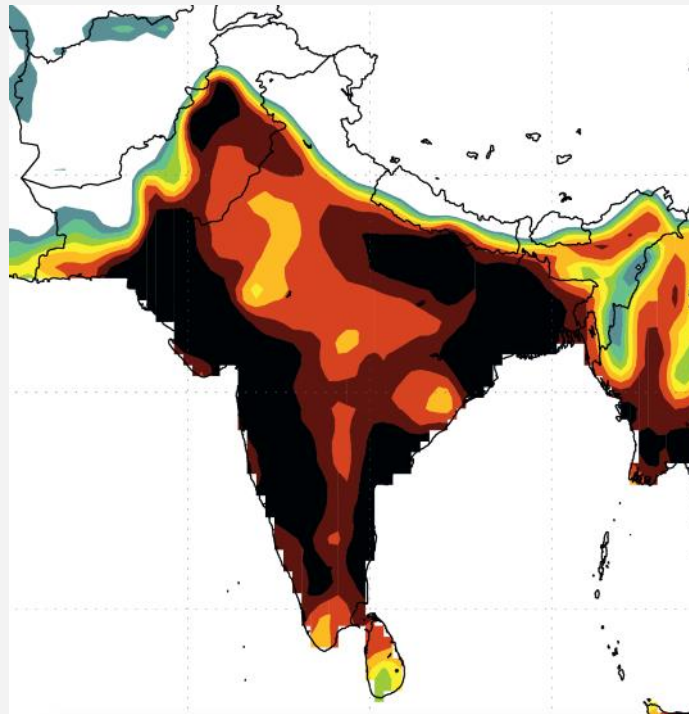
**Lethal Humidity  
conditions already exist...**

**They have already been  
recorded on India's:**

**East coast  
Southwest coast  
Northwest**



**But Lethal  
Humidity  
becomes  
commonplace  
in India at 1.5°C  
(black)**



Saeed et al (2021) & Raymond et al (2020)

A wide-angle, high-angle photograph of a bustling street in Mumbai, India. The street is filled with a dense traffic of vehicles, including numerous yellow and black taxis, white cars, and several red and white buses. A large crowd of pedestrians is visible on the sidewalks and crossing the street. In the background, the grand, ornate, light-colored stone building of the Victoria Memorial is prominent, surrounded by lush green trees. The sky is overcast, and the overall atmosphere is one of a busy, crowded urban environment.

# Mumbai (17 million)





New Delhi (33 million)



A photograph of an elderly man standing in a vast, lush green rice field. He is shirtless, wearing a white cloth draped over his left shoulder and a white dhoti. The field is filled with tall, vibrant green rice plants. In the background, a line of trees, including several palm trees, stretches across the horizon under a clear sky.

# India's food bowl, the Indo-Gangetic Plains

Freychet et al (2022)

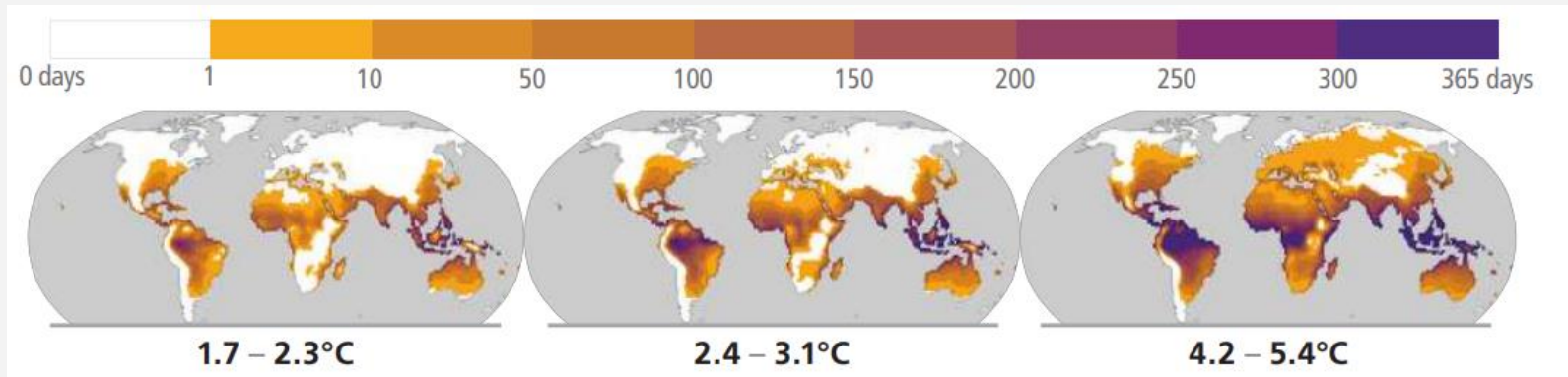
**In Australia:**

**Lethal Humidity occurs at  
1.5°C warming**

# The more the planet warms, the worse Lethal Humidity gets

Freychet et al (2022)

# Some countries will experience 365 days a year of mortality risk (IPCC, 2023)





**We can duck this no longer**

**The actions we need to  
take are clear**

**Take down all barriers  
to green energy manufacturing**

# Including fossil fuel subsidies

# Match policy settings to risk

# Immediately



# **Support a Green Armistice China, the USA and India**

**When?**

**APEC, November 2023  
California**

# What?

**Announce law intention to  
render illegal any action which  
that would prevent mitigation  
of global warming**

# Who?

**President Xi**  
**President Biden**  
**Prime Minister Modi**

# Green Armistice

## MEMBERS RESOLUTION

BOAO Forum  
Perth, today

1

## DISCUSSIONS PROCEED

G20  
New Delhi,  
September

2

## LAW INTENTION ANNOUNCED

APEC  
San Francisco,  
November

3

## IMPLIMENTATION BY GLOBAL BUSINESS

BOAO Initiative  
Hainan, March  
2024

4

**CHINA, USA AND INDIA – LEAD THE WORLD**

**SIMPLE AGREEMENT LED BY BUSINESS –  
FAST**





**We  
are the ones responsible  
for the deaths caused by  
climate change**





**You  
can hold business leaders  
to account**

A close-up photograph of a hand wearing a red sleeve, inserting a white ballot into the slot of a grey ballot box. The background is dark and out of focus.

**You  
can hold your local  
government leaders to  
account**



# Make us change

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