

Are All of Taiwan's Climate Pledges Real or are they Complete Greenwashing Failures?

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Executive Summary

- The Taiwan Government is catastrophically failing to meet energy transition and decarbonization goals
- The Taiwan Government has failed to achieve all of the climate pledges it has set in the past
- Taiwan remains the 10th largest GHG emitter per capita and is 7th from the bottom in the CCPI Performance Index
- The Taiwan Government has failed catastrophically to complete energy transition and decarbonization
- The Taiwan Government's plans, laws and guidelines to reach net-zero are all greenwash and do not actually reduce emissions or replace fossil fuels with zero-carbon energy
- The Taiwan Government's failure to complete energy transition and decarbonization is a threat to Taiwan/US/Global supply chain resiliency and security. This will cause the hollowing out of the Taiwan economy

Scientists All Agree*: The Climate Catastrophe ("CC"), Which Is Underway, Will End the World As We Know It, In No Later than 25 years (2050)



*Sources: The 2024 State of The Climate Report: Perilous Times On Planet Earth https://academic.oup.com/bioscience/advance-article/doi/10.1093/biosci/biae087/7808595

End Of Civilization: Climate Change Apocalypse Could Start By 2050 If We Don't Act, Report Warns:

https://www.usatoday.com/story/news/nation/2019/06/05/climate-change-apocalypse-could-start-2050-if-we-do-noting/1356865001/Human Civilization Faces "Existential Risk" By 2050 https://www.cbsnews.com/news/new-climate-change-report-human-civilization-at-risk-extinction-by-2050-new-australian-climate/

Scientists Deliver 'Final Warning' On Climate Crisis: Act Now Or It's Too Late:

https://www.theguardian.com/environment/2023/mar/20/ipcc-climate-crisis-report-delivers-final-warning-on-15c

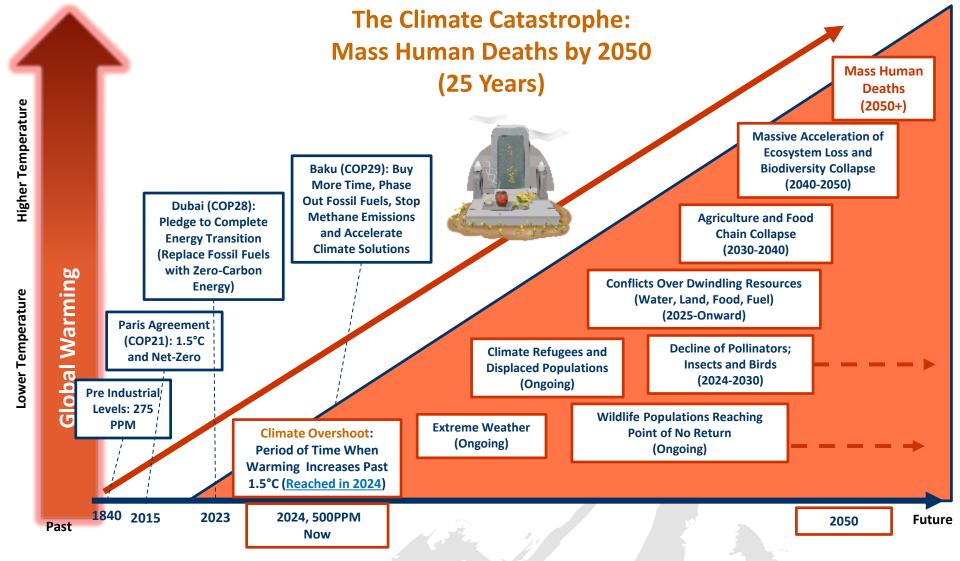
MIT Forecasts Civilization will Fall by 2040. 1970s Study Follow-up to Club of Rome Limits to Growth: https://www.msn.com/en-

us/news/technology/mit-forecasts-civilization-will-fall-by-2040/vi-

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Humanity is Already Dead, Whether People Know it or Not. There is Less Than 25 Years to Deliver a Planetary Solution to Save Humanity





^{*}Sources: The 2024 State of The Climate Report: Perilous Times On Planet Earth https://academic.oup.com/bioscience/advance-article/doi/10.1093/biosci/biae087/7808595

End Of Civilization: Climate Change Apocalypse Could Start By 2050 If We Don't Act, Report Warns:

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Human Civilization Faces "Existential Risk" By 2050 https://www.cbsnews.com/news/new-climate-change-report-human-civilization-at-risk-extinction-by-2050-new-australian-climate/

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MIT Forecasts Civilization will fall by 2040. 1970s Study Follow-up to Club of Rome Limits to Growth: <a href="https://www.msn.com/en-us/news/technology/mit-forecasts civilization will fall by 2040/vi AA1vgRJK2ocid=socialsbare8covid=a5abc2f0a06b4a8aa097077o8b58f2a58coi=51

Humanity has less than a five-year window to take decisive action on climate change...We must realign our political will, economic priorities and societal values...We are a part of the natural world and depend on it...we are facing a self-inflicted set of global challenges, the need for such a cultural transformation will drive action. This process must begin now."

- Sir David King, Former UK Chief Scientist, Advisor to Prime Ministers Blair and Brown



"On average over the last 3 years, the planet has been heating by just over 1 million Hiroshimas per day. (11 Hiroshimas per second)"

- Steve Turton, Central Queensland University Australia, Environmental Geography, Adjunct Professor

"The temperature rise we found is much larger than the <u>2.3 to 4.5°C</u> that the UN IPCC, has been estimating...A doubling of the amount of CO2 in the atmosphere could cause an increase in the average temperature... from 7°C to even a maximum of 14°C degrees."

 Royal Netherlands Institute for Sea Research (Dutch Government Research Institute with over 200 Scientists and Researchers) Nature Communications Magazine, June 2024

"This will be greater than anything we have ever seen in the past [10,000 years of human civilization]... <u>Every living thing will be affected</u>...<u>we will not have anything left that we value</u>, if we do not address the climate crisis."

- Katherine Hayhoe, Nature Conservancy, Chief Scientist

"2/3 of the world's population is under an effective death sentence due to climate change"

Dr. Deborah Brosnan, Virginia Tech University, Adjunct Professor of Biology



The Hard Realities of the Climate Catastrophe

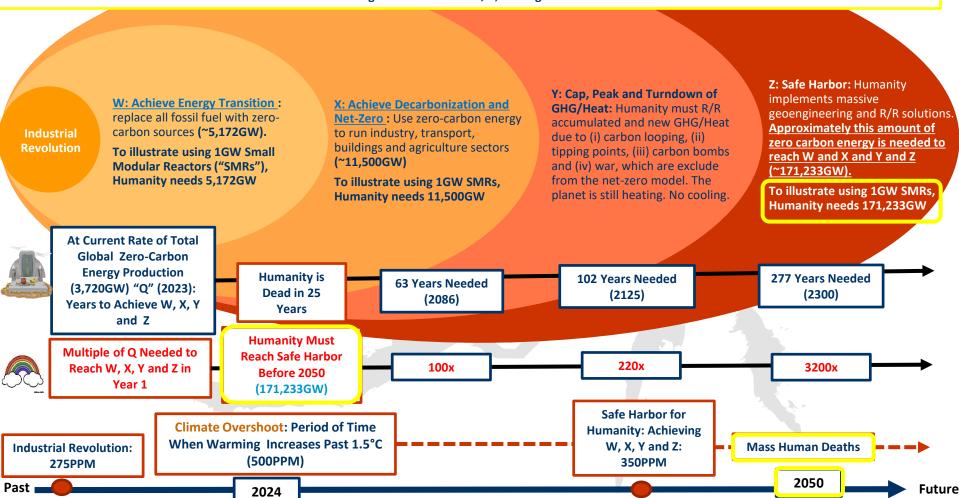
- The consequences of the Climate Catastrophe have started and will worsen exponentially. Mass human deaths by 2050
- Fossil Fuel Industry and their Cooperators (Governments, Financiers, Industry, Media) (use the same tactics the tobacco industry used to deny that smoking causes cancer) use an "Illusion of Solutions" to distract, delay and obstruct climate solutions.
- Humanity is misled by the Illusion of Solutions to believe it is safe from the Climate Catastrophe if it:
 - (1) Completes Energy Transition (replace fossil fuels with zero-carbon energy), and
 - ▶ (2) Achieves Decarbonization/Net-Zero (use zero-carbon energy sources, not fossil fuels to power industry, transport, buildings and infrastructure)
- Humanity is wrong Humanity is not safe from the Climate Catastrophe. Even after achieving (1) Energy Transition, and (2) Decarbonization/Net-Zero, the planet keeps warming due to accumulated Climate Overshoot GHG/Heat in the atmosphere and also from (i) Carbon Looping, (ii) Tipping Points, (iii) Carbon Bombs, and (iv) War all of which are not included in the Net-Zero model.
- Global cooling and Removal and Reduction ("R/R") of accumulated and new GHG/Heat is the only requirement that matters for humanity's survival
- Humanity's spotlight must be laser focused on deploying mass global solutions driven by zero-carbon energy to R/R GHG/Heat
- To survive, humanity must act immediately, at a global scale to deploy massive amounts of zero-carbon energy to power the (existing/new) technologies necessary to R/R GHG/heat in the atmosphere to cool the planet to reach Safe Harbor

For Humanity to be Safe it Must Remove Accumulated GHG/Heat and Reduce New GHG/Heat ("R/R")

The CC is Now the Primary Existential Threat the World
For Decades Humanity Has Talked About Global Warming. No One is Implementing Global Cooling
To Survive, Humanity Needs to Remove and Reduce ("R/R") GHG/Heat in the Atmosphere
This Will Not Happen Automatically

To Survive, Humanity Must Act Immediately, at a Global Scale to Deploy Massive Amounts of Zero-Carbon Energy to Power the (Existing/New) Technologies Necessary to R/R GHG/Heat in the Atmosphere to Reach Safe Harbor.

All Stakeholders Must Come Together to Achieve W, X, Y and get to Z to Beat the Existential Threat



Taiwan is a Global Environmental Laggard/Pariah as the 22nd Largest Global GHG Emitter

Rank ‡	Country/Territory \$	CO ₂ per capita (t)
21	South Korea	11.9
22	2 Taiwan	11.9
23	■ Libya	11.1
24	Saint Pierre & Miquelon	10.5
25	Curacao .	9.7
26	► Czechia	9.2
27	anguilla	9.2
28	■ Iceland	9.1
29	⊆ Greenland	9.1
30	Poland	8.6

Taiwan is an Environmental Laggard/Pariah

- Taiwan ranks 7th from the bottom according to the 2023 Climate Change Performance Index ("CCPI") which ranks territories based on their climate performance
- Taiwan scores poorly in the climate policy categories, GHG emissions, energy use, and renewable energy

57.	△ Chinese Taipei	28.35
58.	△ Canada*	26.47
59.	∇ Russian Federation *	25.28
60.	<u>– Korea</u>	24.91
61.	<u>∆ Kazakhstan</u> *	24.61
62.	△ Saudi Arabia *	22.41
63.	∇ Islamic Republic of Iran*	18.77

Source: https://ccpi.org/

Taiwan's Climate Pledges Are Announced with Fanfare, but are Failures

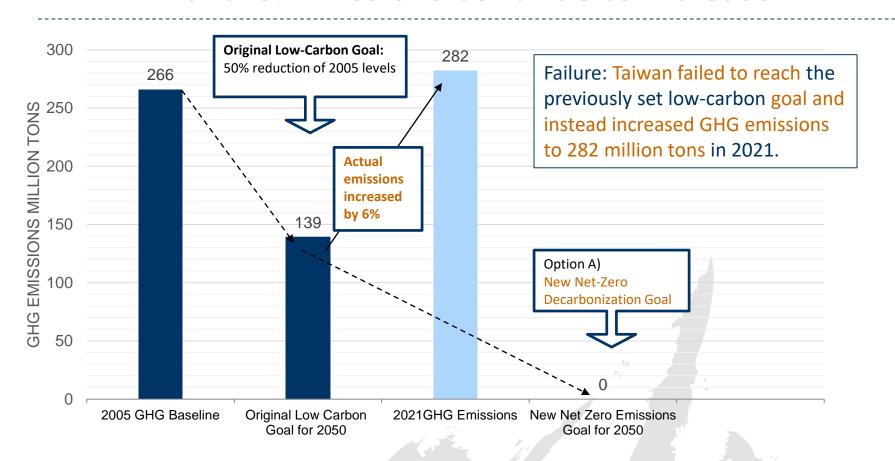
Goal

- Date: July 1, 2015
- Legislative Yuan passes the Greenhouse Gas Reduction and Management Act ("GGRMA")
- Goal: By 2020, reduce greenhouse gas emissions by 2% of 2005 levels.

Result

- Instead of the reducing emissions by 2% of 2005 levels, 2020 emissions exceeded the goal by 4.65%.
- Failure: No Removal and Reduction ("R/R") of accumulated and new GHG/Heat

Climate Pledge #1 (2015) to Reduce Emissions is a Failure: Emissions Continue to Increase

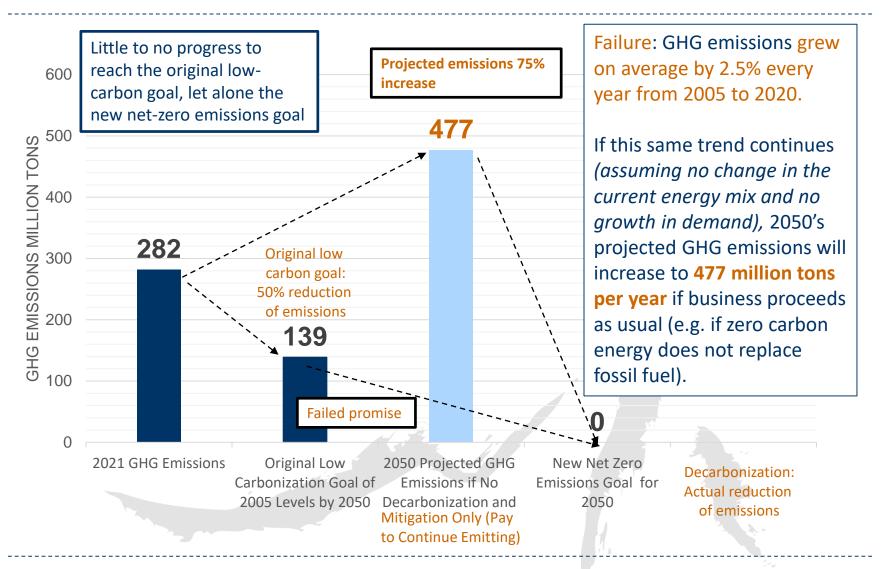


^{*}Net Zero is defined as:

- A) Reduce GHG emissions to zero, which is decarbonization, OR
- B) GHG emissions are mitigated (pay to pollute) 1-for-1 with offsets, which is not decarbonization and GHG emissions are not reduced to zero

Source: Our World in Data

Climate Pledge #1 (2015) to Reduce Emissions is a Failure: Emissions Continue to Increase



Taiwan's Climate Pledges Are Announced with Fanfare, but are Failures

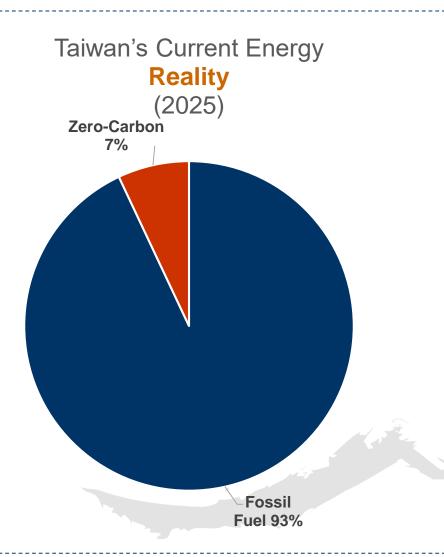
Goal

- Date: Feb 15, 2017
- President Tsai announces plans to raise renewable energy generation to 20% by 2025
- Goal: Begin energy transition and decarbonization by increasing wind and solar energy generation

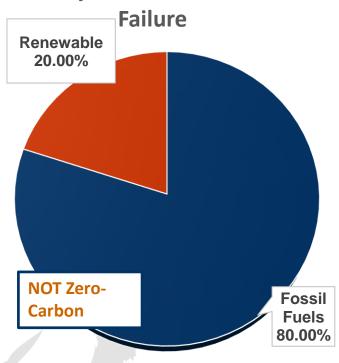
Result

- In 2017, renewable energy accounted for 4.5% of Taiwan's total energy mix. 3 years later, by 2020, it grew by less than 1 percent to 5.4%
- Economic Affairs Minister Wang Mei-Hua (王美花) admits Taiwan will reach its target of 20% green energy one or two years later than the originally proposed 2025.
- The 20% renewable energy goal is only attainable by 2027.
- By 2025, only 7% of the electricity delivered to the grid is zero-carbon
- Failure: No R/R of GHG/Heat. Mass migration of companies and supply chains begins due to lack of zero-carbon energy

Climate Pledge #2 (2017) to Reach 20% Renewable Energy by 2025 is a Failure: 20% Achievable Until Maybe 2027



Electricity Generation 2025 Goal



In March 2022, Economic Affairs Minister WANG Mei-Hua (王美花) admits Taiwan will reach its target of 20% renewable energy until maybe 2027. No decarbonization, no energy transition

Taiwan's Climate Pledges Are Announced with Fanfare, but are Failures

Goal

- Date: April 22, 2021
- National Development Council declares "2050 Net-Zero Transition1," for COP26 Glasgow
- President Tsai Introduces Taiwan
 Net-Zero Roadmap 2050
- Goal: Achieve Energy Transition and Decarbonization/Net-Zero by 2050

Result

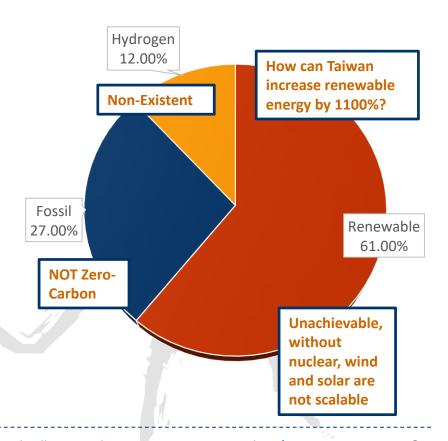
- Government releases a future energy mix that is not carbon-neutral. Fossil fuels make up 27% of energy mix. Nuclear energy is removed from the mix.
- Failure: No R/R of GHG/Heat. Mass migration of companies and supply chains begins due to lack of zero-carbon energy
- The Government's Roadmap is fraudulent and does not lower emissions. Does not achieve Net Zero

Climate Pledges #3-#4 (2021-2022) to Reach "Net-Zero" by 2050 are a Failure: Planned Energy Mix Is Almost 30% Fossil Fuels

Taiwan's Roadmap does not lead to zeroemissions

- Almost 30% of energy mix is still fossil
 - NOT net-zero
- Hydrogen technology is non-existent in Taiwan
 - NOT net-zero
- Carbon Capture ("CC") technology is still unproven. CC is a pay-to-pollute scheme that does NOT lower emissions
 - solar and wind energy, and electricity storage are improving faster than CC
 - CC is used as an excuse to keep polluting plants open
 - NOT net-zero
- Taiwan Government's "Carbon Neutral"
 Roadmap Is a Greenwashing Placebo Failure
- Nuclear is removed from the energy mix

Electricity Generation in 2050 According to Taiwan Government's "Carbon Neutral" Roadmap



Taiwan's Climate Pledges Are Announced with Fanfare, but are Failures

Goal

- Date: June 09, 2023
- President Tsai reiterates pledge for homeland to be nuclear-free by 2025.
- Government promises to decommission Taiwan's nuclear power plants by 2025
- Goal: Shut down all nuclear power plants by 2025, contrary to people's will and referendum.

Result

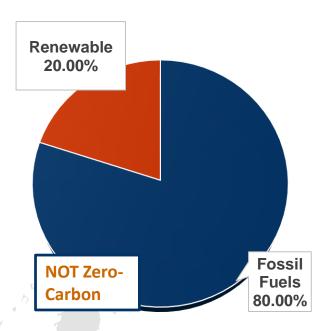
- Taiwan shuts down its only scalable source of renewable energy. Nuclear energy is replaced with fossil fuels.
- Is the current Taiwan Government perpetrating fraud by unilaterally claiming Taiwan is a "nuclear free homeland" when 59% of Taiwanese voted to keep NPPs open beyond 2025? How can Taiwan be nuclear free when the NPPs are not decommissioned?
- Decommissioning requires:
 - (i) Shut Down
 - (ii) Removal of Fuel
 - (iii) Restore Site to Original Condition

See: Taiwan's Spent Nuclear Fuel Safety Crisis: The Taiwan Government Must Provide Real Solutions to Taiwan's People/Businesses/Society

Pledge # 5 (2023) to Shut Down Nuclear Energy by 2025 is a Failure to Taiwan's Energy Transition Pledges and Goes Against the Will of the People

- Despite the results of the November 2018 referendum, showing 59% of citizens voted against the government's policy to phase out the use of nuclear energy by 2025
- A 2025 poll showed 73% of the population support nuclear energy and extension of the nuclear power plants
- The Taiwan Government plans to replace the only scalable, zero-carbon energy source with fossil fuels
- No decarbonization and no energy transition
- The share of fossil fuel energy in the mix increases
- 55+ Jurisdictions around the world are expanding nuclear energy capacity and at COP28 22 countries pledged to triple nuclear energy by 2050
- Why is Taiwan the only jurisdiction shutting down nuclear energy?
- Failure

Electricity Generation 2027



Taiwan's Climate Pledges Are Announced with Fanfare, but are Failures

Goal

Date: Nov 14, 2023

 Goal: Build a hydrogen power plant and make hydrogen 9%-12% of Taiwan's energy mix by 2050

Result

- Hydrogen technology is still non existent,
 Taiwan lacks hydrogen infrastructure and
 the zero-carbon energy needed to produce
 green hydrogen.
- LNG will be used to produce hydrogen.

Pledge #6 (2023) to have 9%-12% hydrogen in the energy mix by 2050 is a Failure: Hydrogen is still an unproven technology, it is mostly manufactured using fossil fuels and Taiwan completely lacks hydrogen infrastructure

- The Taiwan Government claims that Hydrogen will be used in the national energy mix to decarbonize and complete energy transition is just more greenwashing
 - Hydrogen is still mostly created using LNG
 - Less than 4% of the hydrogen produced today is clean according to Earth Justice
 - ▶ Each ton of hydrogen produced using fossil fuels releases 11 tons of CO2
 - It takes more energy to produce, store and transport hydrogen than it does when converted to useful energy
- Taiwan Government agencies did not even announce the estimated MW capacity of the proposed power plant
- No hydrogen infrastructure in Taiwan
- Taiwan does not produce enough zero-carbon energy now to support "green hydrogen production"
- Huge distraction and waste of resources

Summary of Taiwan Government's Major Climate Pledges and Failures

Timeline: Major Announcements vs Actual Results

- ▶ July 1, 2015: Legislative Yuan passes the Greenhouse Gas Reduction and Management Act ("GGRMA") with a goal to reduce greenhouse gas emissions by 2% of 2005 levels.
 - ▶ **Result:** Instead of the reducing emissions by 2% of 2005 levels, 2020 emissions exceeded the goal by 4.65%. No decarbonization, no energy transition
- ▶ June 2016: MOEA announces Taiwan will achieve 20% renewable energy by 2025
 - Provided Result: In March 2022, Economic Affairs Minister WANG Mei-Hua (王美花) admits Taiwan will reach its target of 20% renewable energy until maybe 2027. No decarbonization, no energy transition
- April 22, 2021: National Development Council declares "2050 Net-Zero Transition" for COP26 Glasgow
 - **Result**: the Taiwan government offers no implementable plan to reach the goal. All talk no action.

Summary of Taiwan Government's Major Climate Pledges and Failures

- ▶ March 30, 2022: President Tsai Introduces the Taiwan "Net-Zero Roadmap 2050".
 - ▶ **Result:** Government releases a future energy mix that is not carbon-neutral. Fossil fuels make up 27% of energy mix. Nuclear energy is removed from the mix.
- June 9, 2023: President Tsai reiterates pledge for homeland to be nuclear-free by 2025
 - ▶ **Result:** Taiwan plans to shut down its only scalable source of renewable energy despite the Referendum held on November 24, 2018, showing 59% of voters favor development of nuclear power.
- August 8, 2023: President Tsai says transition to net zero emissions would stimulate more than NT\$4 trillion in private investment by 2030
 - ▶ **Result:** Companies have actually started to leave as the Government fails to provide zero-carbon energy. Impossible to generate NT\$4 trillion in private investment. No market conditions to attract corporate, strategic, financial, technology partners and Institutional investors. Mass migration of companies to jurisdictions with zero-carbon energy supplies
- November 14, 2023: LY announces NT4 billion for a hydrogen power plant
 - Result: Hydrogen is still an unproven technology, the proposed power plant will use fossil fuels to produce hydrogen. No decarbonization or energy transition just more greenwash

Summary of Taiwan Government's Major Climate Pledges and Failures

- November 19, 2023: Ministry of the Environment releases updated National Climate Action Guidelines
 - ▶ **Result:** No real or actionable changes or proposals to increase Taiwan's zero-carbon energy mix beyond 20% after 2027. The updated guidelines focus on carbon fees that do not lower emissions and fail to promote decarbonization or energy transition.
- October 23, 2024: Ministry of the Environment approves carbon fees
 - Result: Carbon fees are set as low as NT100 per ton and apply to only 141 listed companies. o reduction of emissions. Carbon fees function as pay-to-pollute schemes, allowing industries to continue emitting GHG.
- October 24, 2024: Ministry of the Environment Updates Carbon Reduction Goals.
 - ▶ **Result:** Emissions remained almost unchanged, with only a 1.8% reduction in 2022 compared to 2005 levels. Environment Minister Peng admitted that achieving the 2030 target would "in reality be hard."

The Taiwan Government Promises Everything Including the Kitchen Sink but it Cannot Deliver to Solve its Lack of Zero-Carbon Energy

- The Taiwan Government Claims it will Transform Taiwan into an "Al" Island and a "Silicon Valley" hub
 - ▶ The Government promises Taiwan will be a leader in AI, data centers, drones, space technology, biotech and smart agriculture
- The Taiwan government is incapable of delivering enough energy (dirty fossil/zero-emissions) for current and future societal needs
- There is no satisfactory concrete plan to meet the current growth and projected new and additional energy (dirty fossil/zero-emissions) needs of new industries i.e. Al, semiconductors, data centers, EVs and other new technologies
- Given the DPP's failure to provide enough zero-carbon energy, all these
 promises are just a fairy tale (See: <u>Taiwan's Government Lacks the Ability
 to Generate Enough Energy (Dirty Fossil Fuel/Zero-Emissions) To
 Maintain/Grow Taiwan's Technological Leadership, Let Alone Become a
 Global Leader in Al and New Industries)
 </u>

New Environmental Bills and Amendments are Smoke and Mirrors

Climate Change Response Act (氣候變遷因應法)

The government announced the three-pronged approach to achieve the goal of net zero emissions by 2050:

- Carbon Trading
 - → Pay to pollute greenwashing. Does not reduce emissions. No decarbonization.
- Incremental Offsets
 - ☐ Pay to pollute greenwashing. Does not reduce emissions. No decarbonization.
- Voluntary Reductions
 - → No real penalties and incentives does not lead to decarbonization and energy transition.
- Formally known as Greenhouse Gas Reduction and Management Act (A name change does not lower emissions)
- Announcing new laws with no teeth does not lead to emissions reduction. The government is lying.

New Environmental Bills and Amendments are Smoke and Mirrors

Renewable Energy Development Act (再生能源發展條例)

- Aims to encourage renewable energy use and promote energy diversification without any actionable articles.
- No implementable plan or outline as to how renewable energy power generation facilities can increase their installed capacity.
- No implementable framework.
- Taiwan companies are left rudderless.

New Environmental Bills and Amendments are Smoke and Mirrors

- President Tsai is obscuring the truth of Taiwan's environmental crisis
- Taiwan passes irrelevant bills and amendments to distract the public's attention. Does not decarbonize and reduce emissions.
- No implementable solutions.
 - Distracts citizens from decarbonization and emission reduction.

All of Taiwan's Climate Pledges Are Announced with Fanfare but are Failures

With all its previous failures, how can the Taiwan Government meet its own climate pledges or the UN emissions reduction standards, cutting emissions drastically by December 31, 2022, peak emissions in 3 years by 2025, reduce emissions 43% in 8 by 2030, and reduce emissions at least 84% in 28 years by 2050 with:

- Laissez-faire approach
- Pay to pollute schemes
- Public relations announcements
- Denials
- Procrastination
- Greenwash
- Placebo
- Inaction
- All words and no actions
- Where is the beef?

Taiwan Government Keeps Failing and Breaking Promises on Decarbonization

- Taiwan is far from becoming a net-zero jurisdiction
- Empty pledges without proper implementation plans and regulations will not achieve decarbonization
- Paying to pollute is not decarbonization
 - Carbon Offsets
 - Carbon Taxes
 - Community Projects
 - Afforestation
 - Carbon Sequestration
- Emissions NOT reduced. Fossil Fuels NOT replaced with zerocarbon energy sources

Taiwan Government Keeps Failing and Breaking Promises on Decarbonization

- Taiwan continues to be a climate laggard/pariah amongst other developed economies
 - From 1990 to 2018, Taiwan increased its CO2 emissions by 128%
 - Other developed economies like the EU were able to decrease emissions by 23% between 1990 and 2018
- Taiwan has a history of promising climate action but failing to accomplish any meaningful pledges
 - ▶ Failure to reduce GHG emissions over time
 - Failure to transition to zero-carbon energy

The Taiwan Government's

"Carbon Neutral" Roadmap Is A
Greenwash, Placebo Failure
That Fails to Achieve Energy
Transition, Decarbonization and
the Net-Zero Goal

The Taiwan Government's Net-Zero Emissions Roadmap:

- Only a Placebo
- -No Implementation Plan
- -Does Not Reduce Emissions
- -No Coordination with ALL Stakeholders
 - More Greenwashing and no Action
 - No Objectivity, No Peer Review
 - -Just Political Talk and No Action

Do you Agree with President Tsai when She Says "no need to worry"?

- "There is no need for the public to worry," Tsai told a meeting with 12 environmental advocates at the Presidential Office on June 5th, 2023. 1
- "... Taiwan's ambitious program to drastically alter its energy mix has fallen far behind schedule, with all that implies for both industrial operations and national security..." -AmCham White Paper
- 20% Renewable energy is only achievable by 2027.
 80% is still fossil fuels.
- The DPP government failed to reduce emissions and to decarbonize

Do you Agree with President Tsai when She Says "no need to worry"?

- Is the DPP government lying to Taiwan?
- Taiwan is a global Environmental Pariah
- Taiwan's exodus of supply chain leads to hollowing out of the economy
- Taipower's existing infrastructure is a cause of common concern. Taiwan is likely to experience more blackouts, not less.
- Action is required now, not in 2025 or 2027.
- When will the Taiwan Government also start worry?

Taiwan Falls in Bottom Tier Ranking for GHG Emissions

- Minister of Economic Affairs Wang Mei-Hua (王美花) acknowledged that by 2025 the percent of renewable power will be 15.27% instead of their original goal of 20% ¹
 - Not only will Taiwan fail to meet its target, there remains 80% of fossil fuel energy that needs to be addressed.
- Taiwan ranks 7th from the bottom of 63 ranked countries in the 2023 Climate Change Performance Index² ("CCPI") which measures climate performance
- Taiwan scores poorly in the climate policy categories, GHG emissions, energy use and renewable energy
- Taiwan is the 10th largest per-capita GHG emitter on the planet ³
- Share of zero-carbon energy is to low to deliver too all Taiwanese companies and supply chains that need it
- China's energy mix will be 86% zero-carbon by 2060, currently China is at 35% zero-carbon

Sources:

^{1.} Taipei Times https://www.taipeitimes.com/News/editorials/archives/2022/05/04/2003777671

^{2.} CCPI https://ccpi.org/country/twn/

^{3.} Visual Capitalist https://www.visualcapitalist.com/visualizing-global-per-capita-co2-emissions/

^{4.} https://ourworldindata.org/energy/country/china

