In partnership with



CLATEGRACE THE GLOBAL THREAT.....

Climate change is affecting every country on every continent and is disrupting national economies and affecting lives. And despite the increase in Nationally Determined Contributions and companies' Net Zero Pledges announced in COP26, they are still insuffecient in tackling global warming. COP26 kept the 1.5°C by 2030 target alive but fell short in the pledges and NDCs that can achieve this. On the positive side there were pledges that can contribute significantly to lowering emissions, examples; deforestation and use of methane, however the current global risks (e.g., inflation, and Ukraine-Russia war...etc.) could affect the momentum that was positively created in Glasgow.





Source: CAIT Climate Data Explorer via Our World In Data

The climate crisis continues largely unabated. Concentrations of greenhouse gases continued to increase even in 2020 (A pandemic-related economic slowdown year), reaching new record highs. The world remains woefully off track in meeting the Paris Agreement target of limiting global warming to 1.5°C above pre-industrial levels and reaching net-zero carbon dioxide (CO2) emissions globally by 2050.

Source: UN. The Sustainable Development Goals Report-2021.

Global CO2 Atmospheric Concentration (ppm)



1900 1910 1919 1931 1937 1944 1950 1958 1964 1970 1976 1982 1988 1994 2000 2006 2012 2018

Source: NOAA/ESRL Global Monitoring Division via Our World in Data

| | Top Countries' Shares from Total Greenhouse Gas Emissions, 2018* | | | | | | | | | |
|--------------------------------------|--|----------------|--------|--------|-------------|-----------------|----------------------|------------------|--------|--------------------|
| _ | CHINA | 23.92 % | UNITED | 11.84% | RUSSIA | 4.07% | INDONISIA | 3.48% | | |
| | | | STATES | | | | | | | |
| | | | | | | | | | | |
| The wealthy nations of the world are | | | | | JAPAN 2.36% | CANADA 1.56% | SOUTH KOREA 1.38% | SAUDI A 1.30% | ARABIA | AUSTRALIA 1.27% |

Developed Countries Mobilized Climate Finance (USD bn)

In 2019 the OECD reported that rich countries had provided and mobilised a total of \$79.6 billion of climate finance, well short of the \$100 billion pledged in 2009.

Climate change adds additional costs to development GOAL agendas in the global South, and the failure to provide new and additional climate finance directly threatens the amount and efficacy of finance to be spent on poverty reduction, education, health, and women's rights.

responsible for most carbon emissions



Source: Ellen MacArthur Foundation



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Source: CAIT Climate Data Explorer via Our World In Data

(Gigtonnes)

* This includes all GHG, and Land use, land-use change, and forestry (LULUCF).

initian: Green and Section 2000 (GHGs) are a group of substances that contribute to global warming. They include carbon dioxide (CO2), methane (CH4), nitrous oxide (N2O), sulphur hexafluoride (SF6), perfluorocarbons (PFCs) ocarbons (HFCs) and many other compounds listed by the IPCC GHG Definition: Greenho

LULUCF Definition: defined by the United Nations Climate Change Secretariat as a "greenhouse gas inventory sector that covers emissions and removals of greenhouse gases resulting from direct human-induced land use such as settlements cial uses, land-use change, and forestry activities





Projected Greenhouse Gas Emissions in 2030

Source: Energy Transitions Commission & BBC

Sources of CO2 Emission & Ways of Tackling the Products Emissions



Source: Ellen MacArthur Foundation

....AND THE LOCAL EFFECT, IN LIGHT OF EGYPT'S COP27 PREPARATIONS

Climate change continues to hit the world, Egypt is a typical example of a developing country which is highly vulnerable to the phenomenon which faces numerous threats to its economic, social, and environmental sustainability. Egypt is considered highly vulnerable to climate change due to its primary dependence on the Nile River, which serves needs for potable water, agriculture, industry, fish farming, power generation, inland river navigation, mining, oil and gas exploration, cooling of machinery and power generation. This dependence on the Nile River's water makes the country vulnerable to rising temperatures, reduced rainfall for the upper Nile Basins as well as the reduction of rainfall on the east Mediterranean coastal zone.

Egypt's Vulnrability & Readiness to Climate **Change Effects**

The high vulnerability score and low readiness score of Egypt places it in the upper-left quadrant of the ND-GAIN Matrix. It has both a great need for investment and innovations to improve readiness and a great urgency for action. Egypt is the 79th most vulnerable country and the 63rd least ready country.

ce: University of Notre Dame - Notre Dame Global Adaptation Initiative



The ND-GAIN Country Index summarizes a country's vulnerability to climate change and other global challenges in combination with its readiness to improve resilience. It aims to help governments, businesses and communities better prioritize investments for a more efficient response to the immediate global challenges ahead.









Source: UNIDO PCP Report

Readiness

Source: CAPMAS

Egypt's Energy Mix & Emissions' **Reduction Efforts**

Egypt is committed to the widespread deployment of renewable energy technologies. As specified in the ISES to 2035, the Egyptian government has set renewable energy targets of 20% of the electricity mix by 2022 and 42% by 2035.

The 2021 edition of the New and Renewable Energy Authority's harvest report revealed that the renewable energy projects under development amount to 3,570 MW with investments amounting to \$3.5bn, 78% of which is for solar energy and 22% for wind energy.

Source: IRENA and Daily News Egypt

