

CLIMATE CHANGE

- occur due to natural reasons, but since the beginning of the industrial revolution in the 1966 century it has been predominantly due to anchoropogenic activities
- → Worlds biggest co2 emitters (1) china (2) USA (3) India
- UNFCCC Established an international environment treaty to combat climate change cop is the highest decision making body of UNFCCC
- > COP-27 @ Sharm-El-sheikh, Egypt
- L KEY TAKEAWAYS

> Fund for L&D announced

- Program for Santiago, Network for L&D

> tariy warning systems by all

🗻 `Global shield Against climate risks´

> food & Agriculture for Justainable Transformation CFAST)

💃 `Kovo nivial Dialogue' Process

5 Enhancing Nature based solution for an Accelerated climate Transformation (ENACT)

> `mangrove ` Break Itivough '

- 💃 Funding Brigreat Green Wall Initrative
- > Joint Energy Gransition Partnership (JETP)
- -> Povest climate Leaders Partnership (Fole)
- > Carbon Bovder Adjustment Mechanism (CBAM)
 > Eu, Carbon tax, Fit for 55 1 2030'
- S'AIDIN] +
 - LIFE movement
- > COP 26, 2021 @ Glargow, England outcomes
 - -> Developed countries not zero by 2050
 - Phase down unabated coal
 - Global methane Pledge launched at COP26 by USA & EU L'MARS?
 - by clydebank declaration green shipping corridors
 - is first movers coalition usa + wer "(india joined); de carbonisation
 - > Net zero targets G7(2050), china (2060), India 2070



INDIAN INITIATIVES

- MISSION LIFE

- LIFE STYLE FOR LNURONMENT (LIFE) MOVEMENT
- > introduced in cop 26,
- LIFE global movement launched on 511 June 2022
- Period (2022 2027)

154

- , international solar Alliance
- > Indian initiative @ cop 21
- NQ: Gurugram
- , For solar energy adoption
- UN granted observer status to LA

CDRI

- > Coalition of Disaster Resilient Infrastructure
- launched in 2019
- promote resilient infra

IRIS

- > Infrastructure for Resilient Island States
- , Launched @ cop 26
- co- created by CDRI & SIDS
- It will contribute to SAMOA Palliway'

 (SIDS Accelerated modalities of Action)

050M06

- one sun one world one and
- launched by India & uk
- Green Grid initiative global interconnected solar powergrids
- First floated by India in 2018 during the first assembly of ISA

INNOVATION ROADMAP OF THE MUSSION INTEGRATED BIOREFINERIES

- > announced by India @ Global Energy Action Forum
- > to identify the gaps and challenges in bio refining value chains
- ult Mission innovation



MONTREAL PROTOCOL

- > 1987, banned chemicals used in refrigerants & aerosols
 - 4 Phase out CFC
- > Kigali Agreement, 2016
 - 4 Phase out 4FC

CARBON PRICING

- > Caybon tax
- > Emission Trading systems
- > Import Pariff on Carbon content

CARBON SEQUESTRATION

- > Capturing & storing co2 naturally or artificially
- -> Curbon capture & utilisation
- > Bio energy with Carbon capture & Storage
- > Carbon sink' > TOFI' programme

NET ZERO EMISSIONS

> Refers to a balance where emissions of Eng are offset by the absorption of an equal amount from the atmosphere imp step to tackle climate change and its efforts

CARBON BOMBS

- coal, oil and gas projects

BLACK CARBON

- Soult Asian region adjacent to the Tibetan Plateau has among the highest levels of black carbon'

HEAT WAVE

- > period of abnormally high temp
 - -> max temp 40°C for plains & 30° for hilly areas
 - → departure from normal 4-5°c
- > orange alevt

URBAN HEAT ISLANDS

- when certain areas within city experience higher heat than sorrounding areas due to trapped heat in concrete like locations (range of variation 2-5°C)



ARCTIC AMPLIFICATION

- greater increase in temp in the Arctic
- > reduction in sea ite cover (Eq. Bayents Kara region)
- > Perma frost

ZOMBIE ICE

- dead or doomed ice; melting ice in Greenland

AZORES HIGH

- high pressure system that occures in the Atlantic ocean around Azores
- Rermuda high'

OCEAN GREAT DYING 2.0

- mass extinction event occuring in oceans
- -> Pirst event occured in Permian period'
- -> Eq. Comal bleaching

FOOD SYSTEMS & CC

- > food system emissions amount to 186+ Co2/year (2015)
- Biochar

IPCC

- Intergovernmental body for assessing the science related to the climate change
- Estbd in 1988 by UNEP + WMO , MQ. Geneva
- , it shared the 2007' Nobel Peace Prize.
- -> It published 6th Assessment Report (2021-22)