

1. पर्यावरण की वर्तमान स्थिति — प्रदूषण और असन्तुलन

1. जल प्रदूषण— औद्योगिक/पॉलीथीन/माइक्रो प्लास्टिक/अणु कचरा, मानव-मल, कृषि पेस्टिसाइड व रासायनिक उत्पादों का कचरा।
2. वायु प्रदूषण और असन्तुलन— धूल, धुआँ/प्लास्टिक के छोटे कण (Aerosol) PM 2.5/10 (Global Dimming - Jet trails/Industrial activities), औद्योगिक जहरीली गैसों, Global Warming Gases—GWGs (CO₂, Methane, CFC) भारत और चीन - 36 फीसदी आबादी। वायु प्रदूषण के कारण औसत आयु में 73 फीसदी की कमी आई है। औसत आयु का लगातार घटना।
3. भूमि प्रदूषण— औद्योगिक/पॉलीथीन/माइक्रो प्लास्टिक/अणु कचरा, मानव-मल, कृषि पेस्टिसाइड व रासायनिक उत्पादों का कचरा।
4. ध्वनि प्रदूषण— वाहन, स्पीकरों आदि के ध्वनि प्रदूषण से लोगों में बहरेपन/चिड़चिड़ेपन/नींद की समस्या।
5. प्रकाश प्रदूषण— शहरों में प्रकाश प्रदूषण - गहरी नींद न आना, अनिद्रा का सबसे बड़ा कारण।
6. ऊर्जा स्रोतों से प्रदूषण—कोयला ताप ऊर्जा/गैस ऊर्जा/तेल-जीवाश्म ईंधन ऊर्जा स्रोत। वर्तमान जीवाश्म ईंधन आधारित परिवहन प्रणाली। पृथ्वी ऊर्जा असंतुलन (**Earth Energy Imbalance**)— Heat trap due to GWGs in atmosphere is 1.66W/m² means 13.5/sec अर्थात् 11,66,400 (0.66W/m² means 400,000) हीरोशिमा स्तर के अणुबम से उत्पन्न ऊर्जा से प्रतिदिन पृथ्वी का गरम होना। पर्यावरण की वर्तमान स्थिति बन्द भारतीय रसोईघर जैसी हो गई है।
7. पृथ्वी का औसत तापमान (**Earth Average Temperature**)— लगभग 1.50°C for last 15 months.
8. ध्रुवों का पिघलना— समुद्री धाराओं की ताप, गति और दिशाओं में परिवर्तन से मौसमी घटनाओं का बढ़ना। समुद्र तल का बढ़ना। (AMOC)
9. अनियंत्रित जनसंख्या विस्फोट एवं भोगवादी जीवनशैली— भोगवादी जीवनशैली के अनुरूप धरती पर प्रति व्यक्ति संसाधनों का अभाव।
10. वातावरण (सूक्ष्म स्तर—आस्थाएँ, चिन्तन, भावनाएँ) का / पर प्रभाव — वर्तमान जीवनशैली — शोषण-दोहन और दुरुपयोग (भाव-सम्बेदनहीनता) आधारित भोगवादी जीवनशैली — धरती माता के प्रति "माँ के भाव" का अभाव। माँसाहार, नशा, सौंदर्य प्रसाधन सामग्री - कॉस्मेटिक्स व सिंथेटिक्स का उपयोग। प्रत्यक्षवादी दृष्टिकोण — अनावश्यक संचय और अवांछनीय उपभोग — भोगवादी जीवनशैली।
11. कर्मफल की व्यवस्था / बोए हुए को काटने की अकाट्य व्यवस्था की समझ का अभाव— Cause-Effect law — Law of Karma
12. संसाधनों का असमान वितरण और उपभोग— The richest 1% own almost half of the world's wealth, while the poorest half of the world own just 0.75% (The richest 1% own almost two-thirds of all the world's new wealth since 2020) and richest 1% emits more carbon than 66% population (A billionaire emits a million times more carbon than the average person).
<https://www.globalcitizen.org/en/content/wealth-inequality-oxfam-billionaires-elon-musk/>
 The richest 1% in India now own more than 40% of the country's total wealth, while the bottom half of the population together share just 3% of wealth. <https://www.thehindu.com/news/national/indias-richest-1-own-more-than-40-of-total-wealth-oxfam/article66381944.ece>

Threats levels- EEI is 1.66W/m² means heating **Mother Earth** with 13.5/sec (11,66,400/day) Herosima level atom bomb heat energy. (Most urgent & visible threat)

Figure 1: Ordering of anthropogenic environmental threats

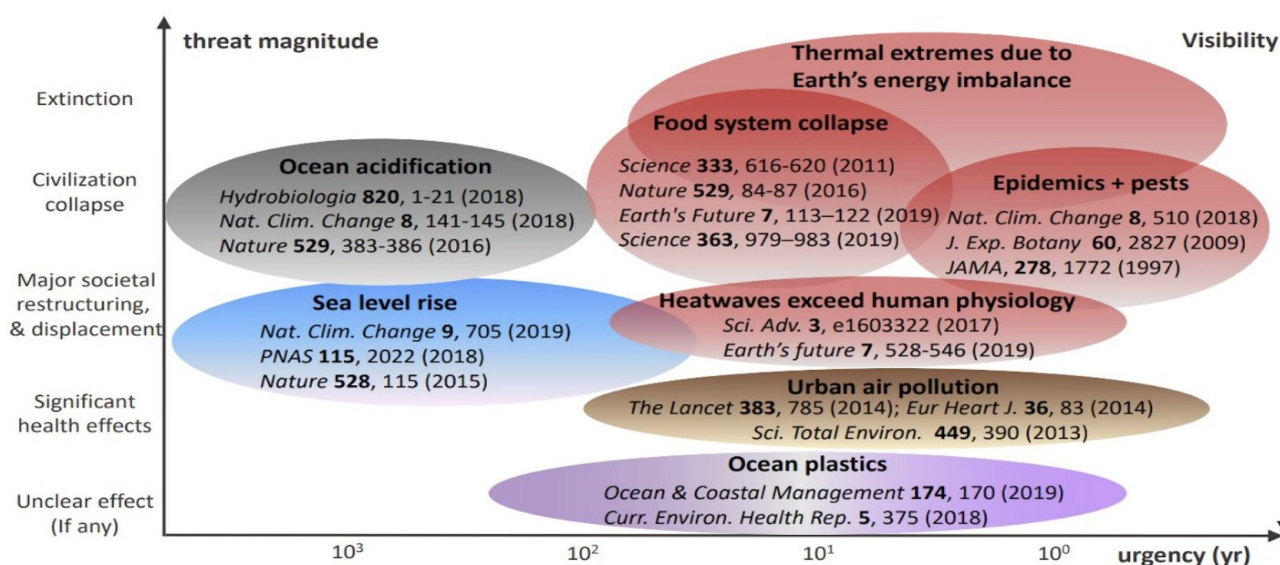


Figure 1: Urgency, threat, and visibility of human-caused environmental threats. Earth's energy imbalance is the radiative imbalance at the top of the atmosphere (von Schuckmann et al. 2016). Source: MEER:reflection project <https://meerreflection.com/how-it-works>

Basic causes—

1. Most urgent & visible threat is "Thermal extremes due to Earth Energy Imbalance" i.e. heating up of Mother Earth due to trapping of heat within atmosphere which is about 20 times more than total energy used by humanity.
2. The main cause of EEI is trapping of heat within atmosphere by GWG's where CO₂ is the main one.
3. At present we get about 85% of energy from fossil fuel which is the main source of CO₂.
4. Another cause is our +ve carbon footprint based life style. We have carbon intensive habits like wasting food and non vegeterism etc and fear & exploitation based social structure (military expenses etc).

Basic challenges—

1. The richest ~10% are responsible for most of the carbon emission ie for present climate crisis.
2. The richest ~10% owns most of the wealth as well as decision making power to implement any solution.
3. ~99% of the population are unaware of seriousness of Climate Crisis.
4. More than ~99% are driven by there traditions / instincts (संस्कार) and not by logic or science.

Basic assumptions —

1. Energy is everything (every physical object) and everything is Energy.
2. Energy has equilibrium property ie flows from higher level to lower level.
3. Energy transforms itself - its nature - kinetic, potential, heat, electrical, chemical, light etc.
4. Everything is interconnected so affects each other.
5. Human being means a combination of Body (Hardware), Mind (Application ware - information system), Antahkaran (Operating System - attitude, Shraddha-Vishwas) and Atman (Life force - spirit).
6. Actions at body & mind level are decided & driven by Mind (Sanskar) and Antahkaran (rational / logical thinking - attitude - mindset)
7. Ultimate desire of human being is security (good health) and happiness - bliss (खुशी / आनन्द)
8. Driving mode for any action is profit (लाभ), fear (भय) or responsibility (कर्तव्य) which depends on awareness.

Proposed solutions—

1. If the richest ~10% are responsible for most of the carbon emission and have decision making power, solution must start from their end which will be more effective than solutions adopted & implemented by other common people having low carbon emission.
2. And or if some how we can stop / reflect / reduce (at physical level using physics) a fraction of sun energy (~2W/m²) coming on Mother Earth. Remember we have already about 2000G ton of CO₂ into atmosphere which has heating effect for thousand of years. We have not only to stop the CO₂ emission but also to reduce the amount of CO₂ from the atmosphere. (SRM - Solar Radiation Management - MEER)
3. Any alternate way (solar science) adopting which (Gayatri & Yagya) by masses (because richest & decision makers are not interested) could stop / reflect / reduce a fraction of sun energy (~2W/m²) coming on Mother Earth to cool overall system.
4. Any alternate way (solar science) adopting which (Gayatri & Yagya) by masses could change the mind of richest & decision makers to reduce adding CO₂ emission at their end.
5. Our lifestyle & traditions has to be changed upside down to get solution (-ve Energy & Carbon footprint).
6. समस्त समस्याओं का एकमात्र कारण — शोषण, दोहन और दुरुपयोग (भाव-सम्बेदनहीनता) आधारित भोगवादी जीवनशैली।
समस्त समस्याओं का एकमात्र समाधान — पोषण, सन्तुलन और सदुपयोग (भाव-सम्बेदनशीलता) आधारित आत्मवादी जीवनशैली।