



**मंथन- 5** हिन्दी में रिपोर्टिंग करने वाले व लिखने वाले पत्रकारों के लिए ऑनलाइन ट्रेनिंग वर्कशॉप

# रिपोर्ट के लिए **आंकड़ें**: कितने सार्थक

**जलवायु परिवर्तन** पर बेहतर रिपोर्टिंग के लिए **कहां** और **कैसे** मिलेंगे सटीक **आंकड़े**  
किरण पांडेय

प्रोग्राम डायरेक्टर, सेंटर फॉर साइंस एंड एनवायरनमेंट (सीएसई)

# जलवायु परिवर्तन : एक ऐसा विषय जिस पर रिपोर्ट करने की है व्यापक संभावनाएं



- जलवायु परिवर्तन एक ऐसा विविध विषय है जिसमें कृषि, खाद्य सुरक्षा, आजीविका, जल संसाधन, अर्थव्यवस्था; शहरीकरण; खाद्य सुरक्षा; प्रशासन; स्वास्थ्य; व्यापार; नीतियां; सतत विकास और बहुत कुछ समाहित है।
- यह क्षेत्रीय, राष्ट्रीय और वैश्विक स्तर पर रिपोर्ट और स्टोरी करने के लिए अनेक मौके और अवसर प्रदान करता है
- एक अलग दृष्टिकोण के साथ करें विकास पर रिपोर्ट; जलवायु परिवर्तन, पर्यावरण और विकास से जुड़े अन्य मुद्दों पर लिखें बहुक्षेत्रीय स्टोरी
- "विश्वसनीय आंकड़ें और जानकारी" "सबूत" के रूप में आपकी स्टोरी को बनाएंगे कहीं अधिक सटीक और विश्वसनीय

# कैसे करें आंकड़ों का उपयोग

- पिछले 4 दशकों से हमारी नीतियों, अनुसंधान और वकालत का केंद्र बिंदु हैं आंकड़ें
- आंकड़ें तथ्यों को बेहतर समझने में दिशा प्रदान करते हैं, जो न केवल समस्या को समझने, बल्कि उसके बारे में संवाद करने और उसे हल करने में भी मददगार होते हैं
- आंकड़ों के प्रकाश में आप स्टोरी को तथ्यों के साथ प्रस्तुत कर सकते हैं
- यह नई पीढ़ी के दर्शकों और प्लेटफार्मों तक पहुंच बनाने में योगदान देते हैं

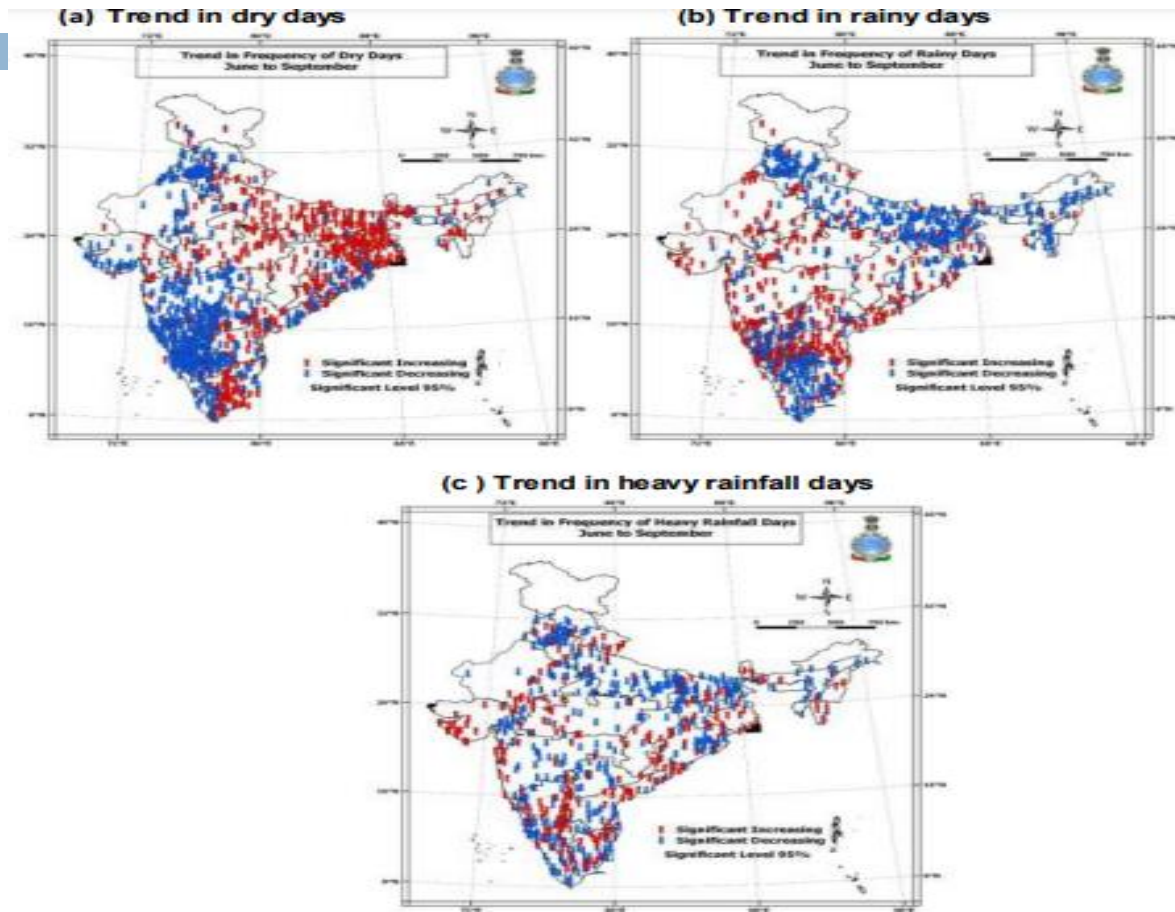


# तथ्यों को बेहतर समझने में दिशा प्रदान करते हैं आंकड़े

| Climate Indicators and relevant Sustainable Development Goals                    |                                 | 1 No poverty | 2 Zero hunger | 3 Good health and well-being | 6 Clean water and sanitation | 7 Affordable and clean energy | 8 Decent work and economic growth | 9 Industry, innovation and infrastructure | 10 Reduced inequalities | 11 Sustainable cities and communities | 13 Climate action | 14 Life below water | 15 Life on land | 16 Peace, justice and strong institutions |
|----------------------------------------------------------------------------------|---------------------------------|--------------|---------------|------------------------------|------------------------------|-------------------------------|-----------------------------------|-------------------------------------------|-------------------------|---------------------------------------|-------------------|---------------------|-----------------|-------------------------------------------|
|                                                                                  |                                 | SDG 1        | SDG 2         | SDG 3                        | SDG 6                        | SDG 7                         | SDG 8                             | SDG 9                                     | SDG 10                  | SDG 11                                | SDG 13            | SDG 14              | SDG 15          | SDG 16                                    |
|  | CO <sub>2</sub> concentration   |              |               |                              |                              |                               |                                   |                                           |                         |                                       |                   |                     |                 |                                           |
|  | Ocean acidification             |              |               |                              |                              |                               |                                   |                                           |                         |                                       |                   |                     |                 |                                           |
|  | Global mean surface temperature |              |               |                              |                              |                               |                                   |                                           |                         |                                       |                   |                     |                 |                                           |
|  | Ocean heat content              |              |               |                              |                              |                               |                                   |                                           |                         |                                       |                   |                     |                 |                                           |
|  | Sea-ice extent                  |              |               |                              |                              |                               |                                   |                                           |                         |                                       |                   |                     |                 |                                           |
|  | Glacier mass balance            |              |               |                              |                              |                               |                                   |                                           |                         |                                       |                   |                     |                 |                                           |
|  | Sea-level rise                  |              |               |                              |                              |                               |                                   |                                           |                         |                                       |                   |                     |                 |                                           |

- एसडीजी 13 यानी **जलवायु परिवर्तन के खिलाफ** की जा रही कार्रवाई के मामले में भारत को **100 में से 54 अंक** दिए गए हैं (स्रोत: नीति आयोग)
- 2020 की सर्दियां, मानसून और मानसून के बाद का समय भारत में सामान्य से कहीं ज्यादा गर्म था (स्रोत: आईएमडी)
- देश के सभी **29 राज्य** जलवायु परिवर्तन के प्रति **काफी संवेदनशील** हैं (स्रोत: विज्ञान और प्रौद्योगिकी विभाग, भारत)
- 2020 में **मौसम से जुड़ी 21 प्रमुख घटनाओं** ने देश में 1,374 से अधिक लोगों की जान ली थी। वहीं **भारी बारिश, बाढ़ और आंधी** 51 फीसदी से ज्यादा मौतों के लिए जिम्मेवार थे, जबकि बिजली गिरने की घटनाओं में 33 फीसदी लोगों की जान गई थी।
- 2020 के दौरान भारत में आपदाओं के चलते **39 लाख से ज्यादा लोगों** को अपना घर छोड़ देश में **दूसरी जगह** **विस्थापित** होना पड़ा था (स्रोत: इंटरनल डिस्प्लेसमेंट मॉनिटरिंग सेंटर, 2021)

# तथ्यों को बेहतर समझने में दिशा प्रदान करते हैं आंकड़ें



# बेहतर आंकड़ों के साथ "विश्वसनीय स्रोतों" की बनाएं अपनी "व्यक्तिगत डेटा डायरी"

## गुणवत्ता पर दें ध्यान

- ग्रैनुलर और रीजनल होने चाहिए आंकड़ें (raw data)
- स्रोत नियमित होना चाहिए
- ओपन एक्सेस डेटा हैं महत्वपूर्ण

## उपयोग में आसानी

- स्रोत ऐसे हों जो आंकड़ों को चित्रित करने की अनुमति देते हों; जिनसे आसानी से ग्राफिक्स बनाएं जा सकें और जिसे आप अपनी स्टोरी में "एम्बेड या इंसर्ट" कर सकते हैं
- इमेज या पीडीएफ की तुलना में excel जैसे फाइल फॉर्मेट का उपयोग है कहीं ज्यादा आसान



For example, See “<https://ourworldindata.org/co2-and-other-greenhouse-gas-emissions> (raw + graphical data available)



## CO<sub>2</sub> and Greenhouse Gas Emissions Country Profiles

How are emissions changing in each country? Is your country making progress on reducing emissions? We built 207 country profiles which allow you to explore the statistics for every country in the world.

Each profile includes interactive visualizations, explanations of the presented metrics, and the details on the sources of the data.

See emissions in your country and how it compares to others:



### Our 12 most visited country profiles

|               |                |           |        |
|---------------|----------------|-----------|--------|
| United States | United Kingdom | China     | India  |
| Brazil        | South Africa   | Germany   | Spain  |
| France        | Canada         | Australia | Sweden |

### 💡 Every profile includes five sections

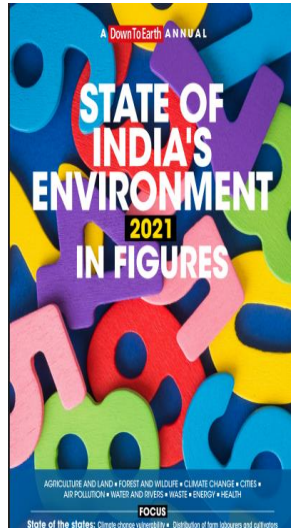
1. **CO<sub>2</sub> emissions:** How much does a country emit each year? What is the average emissions per person? How much has it emitted over time? How do emissions compare when we correct for trade?
2. **Coal, oil, gas, cement:** How much CO<sub>2</sub> comes from coal, oil, gas, flaring or cement production?
3. **Other greenhouse gases:** How much total greenhouse gases does each country emit? How much methane, and nitrous oxide is emitted?
4. **Emissions by sector:** Which sectors contribute most to emissions? Does transport contribute more or less than electricity; how large are agriculture and land use emissions?
5. **Carbon and energy efficiency:** How much energy do we use per unit of GDP? How much carbon do we emit per unit of energy?

# आंकड़ों से मिलकर, पहचान बनाएं, समझें उनकी गहराई

- अपने लिए करें तैयार एक पर्सनल डेटा डायरी। आपके समय और मेहनत को बचाने में होगी मददगार
- स्रोतों का रखें ध्यान
- डेटासेट से करें दोस्ती: उन्हें बेहतर समझने का करें प्रयास
- नियमित डेटासेट की करें पहचान: दैनिक, मासिक, वार्षिक
- उन आंकड़ों का करें विश्लेषण, रुझानों पर रखें नजर और उनकी मदद से करें अपने डेटासेट का निर्माण
- उनकी गहराई को समझने का करें प्रयास, जो आपकी रिसर्च और स्टोरी को आधार देंगे, साथ ही कुछ नए तथ्यों को भी सामने लाएंगे
- जरूरी है अपने लिए एक "डेटा स्रोतों की डायरी"

# डाटा डायरी: आपकी अपनी गाइड

आंकड़ों के सोर्स की करें पहचान  
सीएसई और डाउन टू अर्थ में हम इसी प्रैक्टिस को फॉलो करते हैं  
उदाहरण के लिए आप **स्टेट ऑफ इंडिआज एनवायरनमेंट इन फिगर** रिपोर्ट्स को देख सकते हैं



# द डेटा डायरी

इतना मुश्किल भी नहीं डेटा डायरी बनाना (भारत से जुड़ा एक उदाहरण)



|              |                                                            |                                                                                               |
|--------------|------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Pollution    | Central Pollution Control Board                            | <a href="https://cpcb.nic.in/">https://cpcb.nic.in/</a>                                       |
|              | Ministry of Statistics and Programme Implementation        | <a href="http://www.mospi.gov.in/">http://www.mospi.gov.in/</a>                               |
|              | Ministry of Environment, Forest and Climate Change         | <a href="http://www.moef.nic.in/index.php">http://www.moef.nic.in/index.php</a>               |
|              | Greenpeace India                                           | <a href="https://www.greenpeace.org/india/en/">https://www.greenpeace.org/india/en/</a>       |
|              | Health Effects Institute                                   | <a href="https://www.healtheffects.org/">https://www.healtheffects.org/</a>                   |
| Forests      | World Health Organisation                                  | <a href="https://www.who.int/airpollution/en/">https://www.who.int/airpollution/en/</a>       |
|              | Forest Survey of India                                     | <a href="http://www.fsi.nic.in/">http://www.fsi.nic.in/</a>                                   |
|              | Ministry of Statistics and Programme Implementation        | <a href="http://www.mospi.gov.in/">http://www.mospi.gov.in/</a>                               |
|              | Ministry of Environment, Forest and Climate Change         | <a href="http://www.moef.nic.in/index.php">http://www.moef.nic.in/index.php</a>               |
|              | FAO                                                        | <a href="http://www.fao.org/home/en/">http://www.fao.org/home/en/</a>                         |
| Agriculture  | Department of Agriculture, Cooperation & Farmers Welfare   | <a href="http://agricoop.nic.in/">http://agricoop.nic.in/</a>                                 |
|              | OECD                                                       | <a href="https://www.oecd.org/">https://www.oecd.org/</a>                                     |
|              | FAO                                                        | <a href="http://www.fao.org/home/en/">http://www.fao.org/home/en/</a>                         |
| Mining       | Ministry of Mines                                          | <a href="https://mines.gov.in/">https://mines.gov.in/</a>                                     |
|              | Indian Bureau of Mines                                     | <a href="http://ibm.nic.in/">http://ibm.nic.in/</a>                                           |
|              | Ministry of Coal                                           | <a href="https://www.coal.nic.in/">https://www.coal.nic.in/</a>                               |
| Urbanisation | Ministry of Housing and Urban Affairs                      | <a href="http://mohua.gov.in/">http://mohua.gov.in/</a>                                       |
|              | UNHABITAT                                                  | <a href="https://new.unhabitat.org/">https://new.unhabitat.org/</a>                           |
| Tribal       | Ministry of Tribal Affairs                                 | <a href="https://tribal.nic.in/">https://tribal.nic.in/</a>                                   |
|              | <u>UN Department Of Economic And Social Affairs (DESA)</u> | <a href="https://www.un.org/development/desa/en/">https://www.un.org/development/desa/en/</a> |

# डेटा डायरी (कुछ अन्य विवरणों के साथ, दूसरा फॉर्मेट)



| Main Topic                                    | Source                                           | Subjects covered                       | Periodicity/type of report                                     | Weblink                                                                                                                                                       |
|-----------------------------------------------|--------------------------------------------------|----------------------------------------|----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sustainable development goals (SDGs) , Global | Sustainable development solutions network (SDSN) | All ; Country profiles available       | Annual                                                         | <a href="https://www.sdgindex.org/">https://www.sdgindex.org/</a>                                                                                             |
| Economy (Africa)                              | AFDB                                             | Economy, Development                   | Annual                                                         | <a href="https://www.afdb.org/en/knowledge/publications/african-economic-outlook">https://www.afdb.org/en/knowledge/publications/african-economic-outlook</a> |
| Health                                        | WHO                                              | All Health topics; COVID ;             | Regular ;Daily on COVID                                        | <a href="https://www.who.int/">https://www.who.int/</a>                                                                                                       |
| Agriculture (Global)                          | FAO (for global)                                 | Food security; Agriculture; Fisheries; | Yearly (The State of Food Security and Nutrition ) around July | <a href="http://www.fao.org/publications/highlights-detail/en/c/1279693/">http://www.fao.org/publications/highlights-detail/en/c/1279693/</a>                 |

# Data Sources: India

## Indian Meteorological Department (IMD)

<https://mausam.imd.gov.in/>



For reports and Data - [https://imd pune.gov.in/Clim\\_Pred\\_LRF\\_New/Reports.html](https://imd pune.gov.in/Clim_Pred_LRF_New/Reports.html) | Monthly climate bulletins| Annual climate summary from 2004 -2020| Annual monsoon reports from 2005 -2020 | Rainfall data 1901 to 2018|

For Rainfall Variability and Changes – State-wise (1989-2018)| <https://imd pune.gov.in/hydrology/rainfall%20variability%20page/rainfall%20trend.html>

For extreme climate data –<https://imd pune.gov.in/hydrology/climate.html> | Pan India and city-wise data |

Seasonal Climate forecast/outlook - [https://imd pune.gov.in/Clim\\_Pred\\_LRF\\_New/Products.html](https://imd pune.gov.in/Clim_Pred_LRF_New/Products.html)

# Ministry of Agriculture & Farmers Welfare

<https://agricoop.nic.in/en>



See **Crop Weather Watch Group** for data on crop situation, rainfall here

<https://agricoop.nic.in/en/all-india-crop-situation> |



कृषि एवं किसान कल्याण विभाग  
DEPARTMENT OF  
**AGRICULTURE & FARMERS WELFARE**



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Home / Media / Crop Weather Watch Group / CWWG Data / All India Crop Situation

## All India Crop Situation

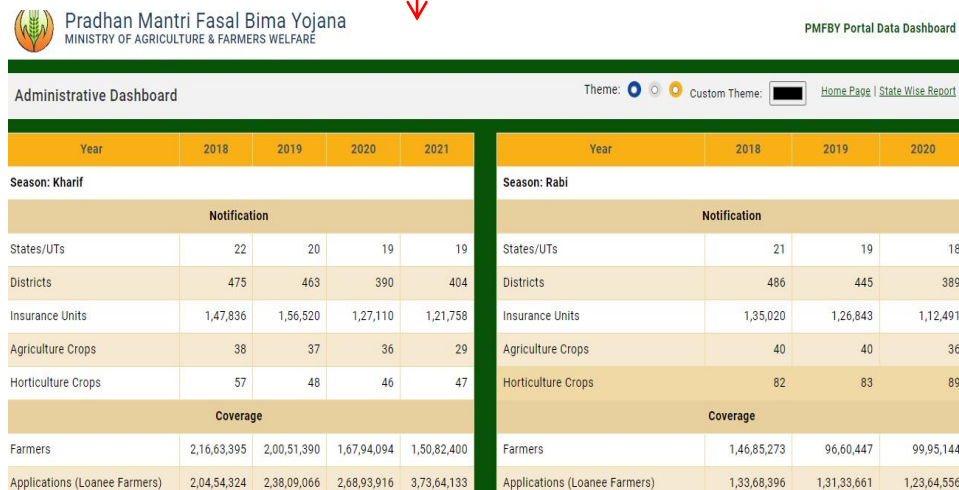
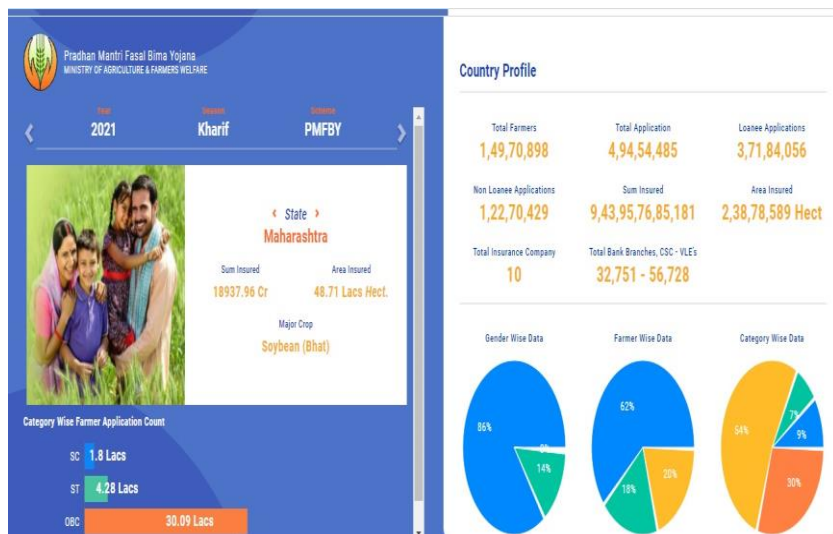
| Sl. No. | Title                      | Details                            |
|---------|----------------------------|------------------------------------|
| 1       | CWWG data as on 03.12.2021 | <a href="#">Download (5.90 MB)</a> |
| 2       | CWWG data as on 26.11.2021 | <a href="#">Download (2.03 MB)</a> |
| 3       | CWWG data as on 18.11.2021 | <a href="#">Download (2.1 MB)</a>  |
| 4       | CWWG data as on 12.11.2021 | <a href="#">Download (8.61 MB)</a> |
| 5       | CWWG data as on 29.10.2021 | <a href="#">Download (7.25 MB)</a> |

# Pradhan Mantri Fasal Bima Yojana

<https://pmfby.gov.in/>



State-wise data on agricultural insurance ( **PMFBY and Restructured Weather Based Crop Insurance Scheme (RWBCIS)** ) | Do See **administrative dashboard**

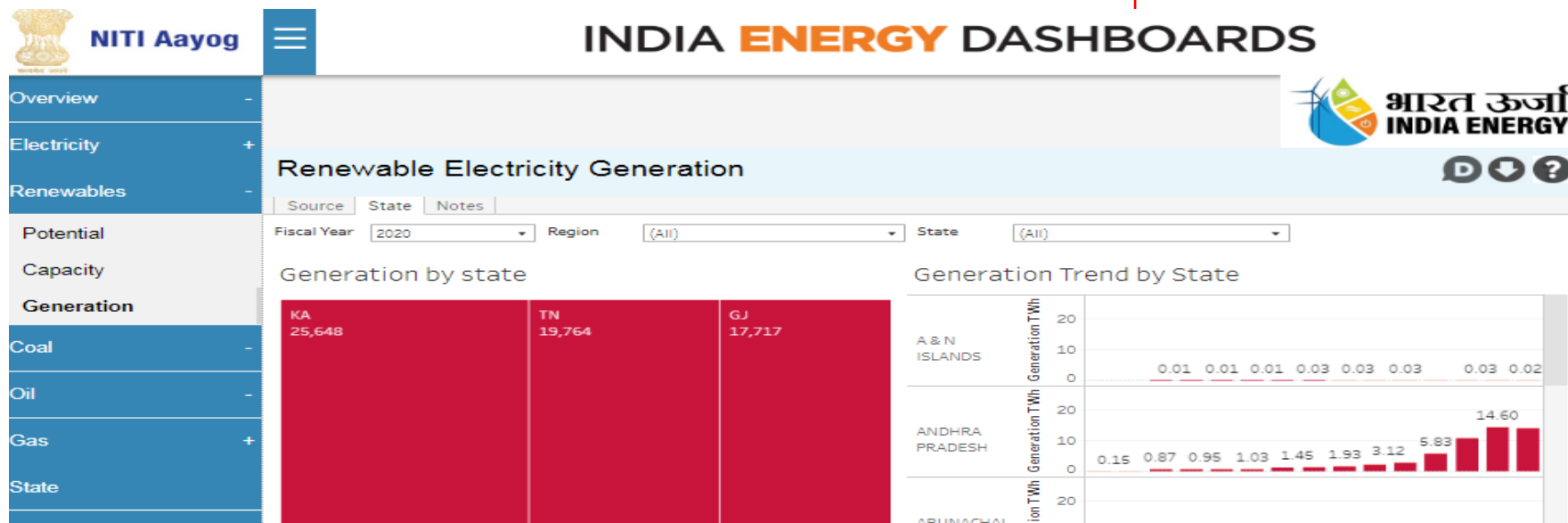


# India Energy Dashboard

<https://www.niti.gov.in/edm/>



Single-window access to the energy data in the country| Provides interesting visualisations of data on the sector -- Electricity, Renewables, Coal, Oil and Gas

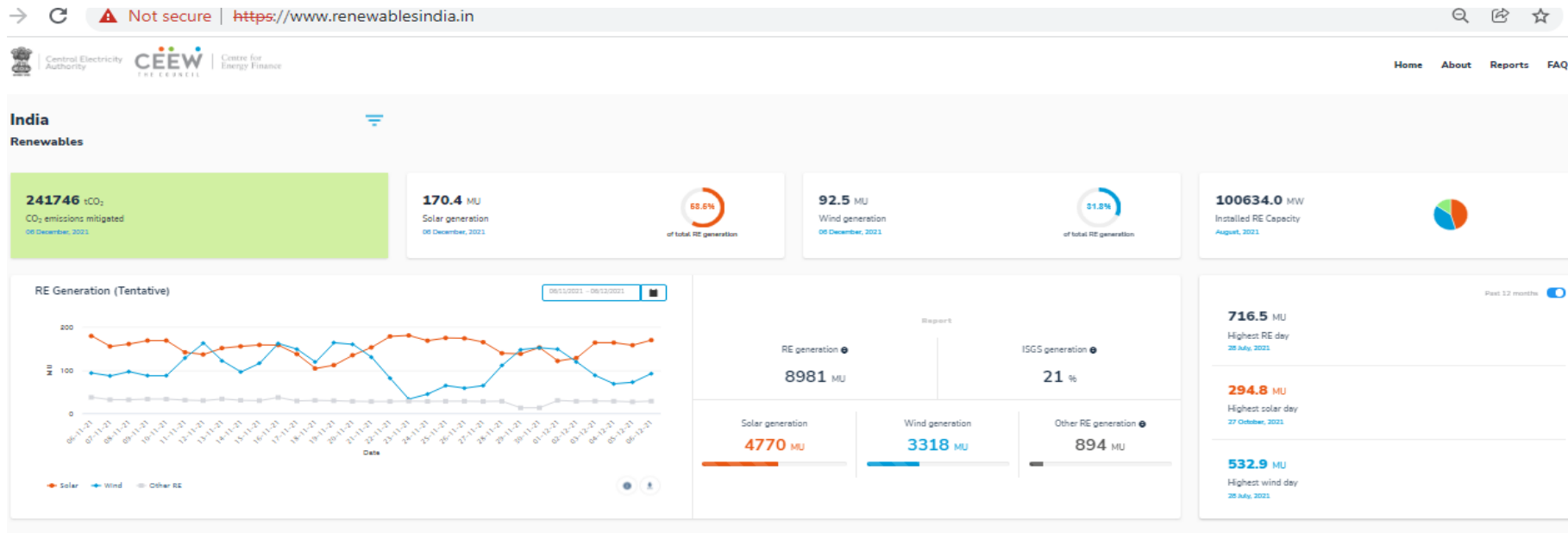


# India Renewables Dashboard

<https://www.renewablesindia.in/>



For single-window access to **data on renewables** in India/State-wise

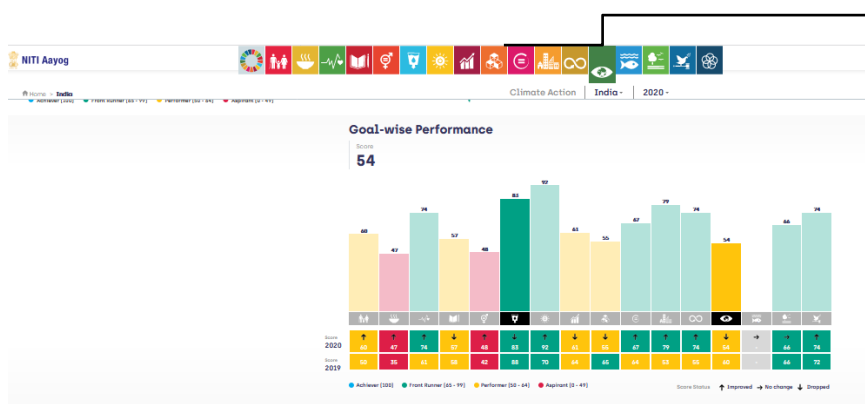


# Sustainable Development Goals (India)

<https://sdgindiaindex.niti.gov.in/#/ranking> (India)



India's score on SDG 13 (On climate action): 54 out of 100; **Stories** – national and state-wise are **hidden** in the “**indicators under this goal**” ; Check out



Climate Action INDICATOR LIST

| #  | Area             | Percentage of households using one of the most installed generating capacity (including classified states) | Disaster preparedness score as per Disaster Resilience Index | CO2 emitted from all India | Number of human lives lost due to extreme weather events | Quantity of ozone-depleting substances (ODS) released attributable to air pollution |
|----|------------------|------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|----------------------------|----------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1  | Target           | 40                                                                                                         | 50                                                           | 100.00                     | 0                                                        | 3400                                                                                |
| 2  | India            | 36.97                                                                                                      | 39.2                                                         | 20.38                      | 15.44                                                    | 3400                                                                                |
| 4  | Andhra Pradesh   | 40.75                                                                                                      | 39.5                                                         | 40.07                      | 15.97                                                    | 3307                                                                                |
| 5  | Assam            | 34.78                                                                                                      | 13.5                                                         | 34.39                      | 21.03                                                    | 3400                                                                                |
| 6  | Bihar            | 32.07                                                                                                      | 10                                                           | 21.47                      | 15.97                                                    | 3400                                                                                |
| 7  | Chhattisgarh     | 40.4                                                                                                       | 39.5                                                         | 34.03                      | 15.97                                                    | 3400                                                                                |
| 8  | Goa              | 40.4                                                                                                       | 39.5                                                         | 34.03                      | 15.97                                                    | 3400                                                                                |
| 9  | Gujarat          | 40.4                                                                                                       | 39.5                                                         | 34.03                      | 15.97                                                    | 3400                                                                                |
| 10 | Haryana          | 40.4                                                                                                       | 39.5                                                         | 34.03                      | 15.97                                                    | 3400                                                                                |
| 11 | Himachal Pradesh | 40.4                                                                                                       | 39.5                                                         | 34.03                      | 15.97                                                    | 3400                                                                                |
| 12 | Jharkhand        | 40.4                                                                                                       | 39.5                                                         | 34.03                      | 15.97                                                    | 3400                                                                                |
| 13 | Karnataka        | 40.4                                                                                                       | 39.5                                                         | 34.03                      | 15.97                                                    | 3400                                                                                |
| 14 | Kerala           | 40.4                                                                                                       | 39.5                                                         | 34.03                      | 15.97                                                    | 3400                                                                                |
| 15 | Madhya Pradesh   | 40.4                                                                                                       | 39.5                                                         | 34.03                      | 15.97                                                    | 3400                                                                                |
| 16 | Maharashtra      | 40.4                                                                                                       | 39.5                                                         | 34.03                      | 15.97                                                    | 3400                                                                                |
| 17 | Manipur          | 40.4                                                                                                       | 39.5                                                         | 34.03                      | 15.97                                                    | 3400                                                                                |
| 18 | Mizoram          | 40.4                                                                                                       | 39.5                                                         | 34.03                      | 15.97                                                    | 3400                                                                                |
| 19 | Nagaland         | 40.4                                                                                                       | 39.5                                                         | 34.03                      | 15.97                                                    | 3400                                                                                |
| 20 | Narayani         | 40.4                                                                                                       | 39.5                                                         | 34.03                      | 15.97                                                    | 3400                                                                                |
| 21 | Northeast        | 40.4                                                                                                       | 39.5                                                         | 34.03                      | 15.97                                                    | 3400                                                                                |
| 22 | Odisha           | 40.4                                                                                                       | 39.5                                                         | 34.03                      | 15.97                                                    | 3400                                                                                |
| 23 | Punjab           | 40.4                                                                                                       | 39.5                                                         | 34.03                      | 15.97                                                    | 3400                                                                                |
| 24 | Rajasthan        | 40.4                                                                                                       | 39.5                                                         | 34.03                      | 15.97                                                    | 3400                                                                                |
| 25 | Sikkim           | 40.4                                                                                                       | 39.5                                                         | 34.03                      | 15.97                                                    | 3400                                                                                |
| 26 | Tamil Nadu       | 40.4                                                                                                       | 39.5                                                         | 34.03                      | 15.97                                                    | 3400                                                                                |
| 27 | Telangana        | 40.4                                                                                                       | 39.5                                                         | 34.03                      | 15.97                                                    | 3400                                                                                |
| 28 | Uttar Pradesh    | 40.4                                                                                                       | 39.5                                                         | 34.03                      | 15.97                                                    | 3400                                                                                |
| 29 | Uttarakhand      | 40.4                                                                                                       | 39.5                                                         | 34.03                      | 15.97                                                    | 3400                                                                                |
| 30 | West Bengal      | 40.4                                                                                                       | 39.5                                                         | 34.03                      | 15.97                                                    | 3400                                                                                |
| 31 | Yamuna           | 40.4                                                                                                       | 39.5                                                         | 34.03                      | 15.97                                                    | 3400                                                                                |

See **indicators** under **SDG 13**  
on **climate action**

# भारत में बदलती जलवायु और उसके प्रभावों से जुड़ी कुछ महत्वपूर्ण रिपोर्ट्स



- 1) Assessment of climate change over the Indian region: A report of the Ministry of Earth Sciences (MoES), Government of India, 2020 (<http://www.indiaenvironmentportal.org.in/files/file/Assessment-of-Climate-Change-over-the-Indian-Region.pdf>)
- 2) Climate vulnerability assessment for adaptation planning in India using a common framework, 2021  
<http://www.indiaenvironmentportal.org.in/reports-documents/climate-vulnerability-assessment-adaptation-planning-india-using-common-framework>
- 3) India Third Biennial Update Report to the UNFCCC  
([https://unfccc.int/sites/default/files/resource/INDIA\\_%20BUR-3\\_20.02.2021\\_High.pdf](https://unfccc.int/sites/default/files/resource/INDIA_%20BUR-3_20.02.2021_High.pdf)), 2021
- 4) India climate change action plan + Climate change action plans of states  
(<http://www.indiaenvironmentportal.org.in/content/252812/national-action-plan-on-climate-change/>)

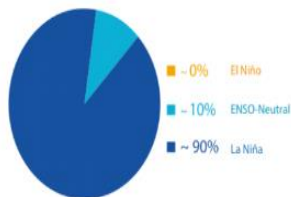
**Data sources: Global**  
**World Meteorological Organization**  
<https://public.wmo.int/en>



**World Weather Information Science| Global Atmosphere Watch** for scientific data and information on aerosols, greenhouse gases, selected reactive gases, ozone| WMO Arctic and Antarctic ozone bulletins; Greenhouse gas bulletins; Aerosol bulletins



ESTIMATED ENSO PROBABILITIES  
FOR DECEMBER 2021- FEBRUARY 2022



- The tropical Pacific transitioned to La Niña in September-October 2021
- Model predictions and expert opinion indicate a 90% probability for La Niña during December 2021- February 2022
- The 2021/2022 La Niña is likely to be a weak-to-moderate event
- A probability of ENSO-neutral is estimated to be about 10% and that of El Niño is near-zero

Information on ENSO should be combined with other regionally and locally relevant factors in order to anticipate its effects on regional climates

News  
SunSmart UV App protects public health

News  
Active 2021 Atlantic hurricane season officially ends

Press Release  
Another La Niña impacts temperatures and precipitation – but not climate change

News  
Education and Training in a period of rapid change

News  
WMO HydroSOS in Ganga Brahmaputra Meghna Basin

Dec  
1

Nov  
30

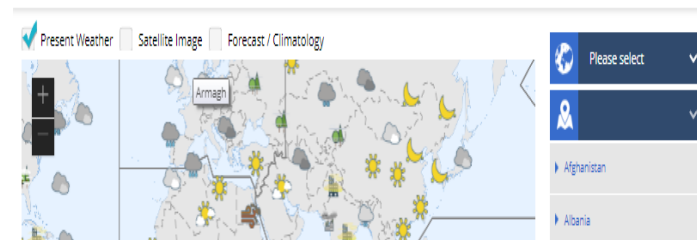
Nov  
26

Nov  
26



This global website presents OFFICIAL weather observations, weather forecasts and climatological information for selected cities supplied by National Meteorological & Hydrological Services (NMHSs) worldwide. The NMHSs make official weather observations in their respective countries. Links to their official weather service websites and tourism board/organization are also provided whenever available. Weather icons are shown alongside worded forecasts in this version to facilitate visual inspection.

By June 2021, WWIS provided official weather information for 2963 cities in which 2819 cities are available with forecast from 139 members while 2177 cities are available with climatological information from 170 members. Suggestions to enrich the contents of this website are welcome.



# National Oceanic and Atmospheric Administration

<https://www.noaa.gov/climate>



It provides data, tools, and information to help people understand and prepare for climate variability and change. But Check out the [climate dashboard](#) here| Do see [Climate data primer](#)

## Global Climate Dashboard

Tracking climate change and natural variability over time

Sort by Indicator: Climate Change

Apply

### Greenhouse Gases



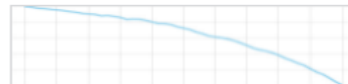
### Arctic Sea Ice



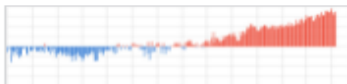
### Carbon Dioxide



### Mountain Glaciers



### Ocean Heat



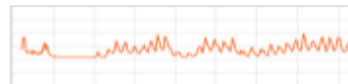
### Sea Level



### Spring Snow



### Incoming Sunlight



### Surface Temperature



# World Resources Institute (CAIT Climate Data Explorer)

<http://cait.wri.org/>



Find **Climate data, visualizations** | datasets to **analyze and compare** national climate **pledges** under the Paris Agreement; historical greenhouse gas (GHG) emissions data, climate and sustainable development goals (SDGs)

## Climate Watch Tools



### Country Profiles

National and sectoral profile pages offer a snapshot of climate progress, risks and vulnerabilities.

[Explore Country Profiles >](#)



### Historical Emissions

Data and visuals of historical emissions by country, sector and type of gas.

[Explore Historical Emissions >](#)



### NDC Content

A user-friendly database of all countries' Nationally Determined Contributions (NDCs).

[Explore NDC Content >](#)



### Emission Pathways

Data and visuals of emissions scenario pathways for major emitting countries and sectors, derived from a growing library of models.

[Explore Emission Pathways >](#)



### NDC-SDG Linkages

Comprehensive mapping of linkages between Nationally Determined Contributions (NDCs) and the Sustainable Development Goals (SDGs) and associated targets of the 2030 Agenda for Sustainable Development.

[Explore NDC-SDG Linkages >](#)



### My Climate Watch

Create, save and share your own customized data visualization.

[Coming Soon](#)

## CAIT Tools



### Historical Emissions

The Historical Emissions tool allows for easy analysis and visualization of the latest available international greenhouse gas emissions data. It includes emissions and derivative indicators for 156 countries, 50 U.S. states,



### Paris Contributions Map (INDCs)

The CAIT Paris Contributions Map enables users to explore, compare, and assess the transparency of mitigation information provided by Parties (countries) in their intended Nationally Determined Contributions



### Pre-2020 Pledges Map

The CAIT Pre-2020 Pledges Map highlights pledges that were submitted by countries to the United Nations Framework Convention on Climate Change (UNFCCC) in 2009 and 2010, outlining actions countries would take by

Very comprehensive; Science Assessment and Analysis; Climate Impacts and Risk Assessment; Negotiations; Climate finance, Policy analysis

**IMPORTANT:** 1.5°C national pathway explorer (<http://1p5ndc-pathways.climateanalytics.org/>) :

NDC ambition explorer (<http://tools.climateanalytics.org/ndc-ambition-tool-rbf/tool/>)

Climate impact explorer (<http://climate-impact-explorer.climateanalytics.org/>)



India > In brief Current situation Ambition gap Sectors

Last update: October 2021

## Ambition gap

India's total GHG emissions  
excl. LULUCF MtCO<sub>2</sub>e/yr

Displayed values

Percent

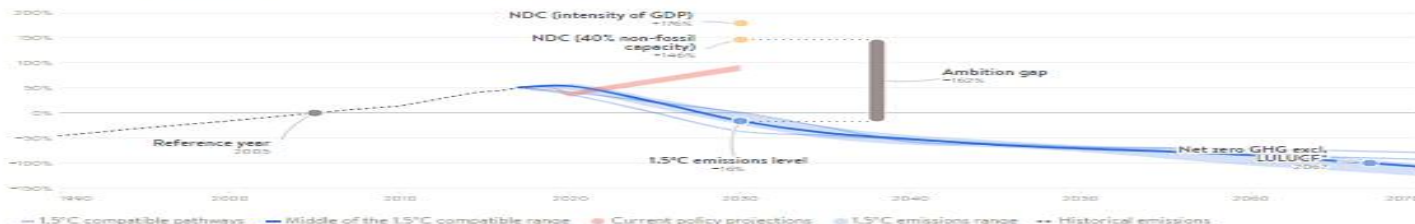
MtCO<sub>2</sub>e

Reference year

2005

2010

2015



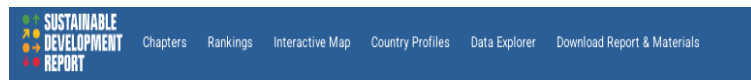
\*Net zero emissions excl. LULUCF is achieved through deployment of BECCS; other novel CDR is not included in these pathways

# Join the dots.. .The one stop source for cross-sectoral data

## Sustainable Development Goals

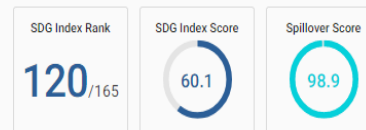
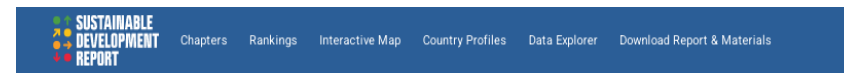
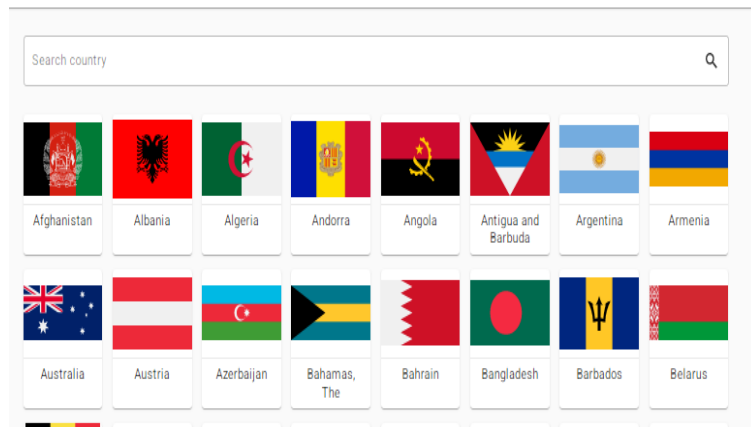


Progress on SDGs ([global/country-wise](#))| Annual| Interactive data on goals and indicators| Global ranking for comparison



### Country Profiles

Track progress and trends on achieving the Sustainable Development Goals for all 193 UN Member States



### SDG Dashboards and Trends

Click on a goal to view more information.



Dashboards: ● SDG achieved ● Challenges remain ● Significant challenges remain ● Major challenges remain ● Information unavailable

Trends: ↑ On track or maintaining SDG achievement ↗ Moderately improving → Stagnating ↓ Decreasing \*\* Trend information unavailable

# Food and Agriculture Organization (FAO)

## <http://www.fao.org/faostat/en/#data>



Find **data on Climate and related indicators**; For example, **Emissions intensity** by country of selected agricultural and animal products; **Food security** (<http://www.fao.org/faostat/en/#data/EI/visualize> )

Data on **245 countries/territories**| **Well categorised**| Food and Agriculture Microdata Catalogue (Very Imp: **FAM**)| Special section on SDGs| **Annual publications with data** (Annual State of Food and Agriculture ; World Food and Agriculture Statistical year book)| Infographics

This screenshot shows the FAO FAOSTAT website interface. The top navigation bar includes the FAO logo, the text 'Food and Agriculture Organization of the United Nations', and a search bar. Below the navigation bar, there are links for 'About FAO', 'In Action', 'Countries', 'Themes', 'Media', 'Publications', 'Statistics', and 'Partnerships'. The main heading is 'FAOSTAT', followed by a sub-heading 'Emissions intensities'. The page features a search bar and a 'Back to domains' button. The 'Emissions intensities' section includes a 'DOWNLOAD DATA' tab, a 'VISUALIZE DATA' tab, and a 'METADATA' tab. The 'VISUALIZE DATA' tab is active, showing a form for selecting data. The form includes a dropdown for 'Item' (Meat, cattle), a dropdown for 'Country/Region' (India), and two dropdowns for 'From Year' (1961) and 'To Year' (2017). A text box on the right explains that the data represents 'Intensities of greenhouse gas (GHG) emissions by unit of product for a selection of agricultural commodities.'

This screenshot shows the FAO FAOSTAT website interface for the 'Suite of Food Security Indicators'. The top navigation bar includes the FAO logo, the text 'Food and Agriculture Organization of the United Nations', and a search bar. Below the navigation bar, there are links for 'About FAO', 'In Action', 'Countries', 'Themes', 'Media', 'Publications', 'Statistics', and 'Partnerships'. The main heading is 'FAOSTAT', followed by a sub-heading 'Suite of Food Security Indicators'. The page features a search bar and a 'Back to domains' button. The 'Suite of Food Security Indicators' section includes a 'DOWNLOAD DATA' tab, a 'VISUALIZE DATA' tab, and a 'METADATA' tab. The 'VISUALIZE DATA' tab is active, showing a form for selecting data. The form includes a dropdown for 'COUNTRIES' (Afghanistan, Albania, Algeria, American Samoa, Andorra) and a dropdown for 'ELEMENTS' (Value). A text box on the right explains that the data represents the 'Suite of Food Security Indicators presents the core set of food security indicators. Following the recommendation of experts gathered in the Committee... Show More'.

# Water Scarcity Clock

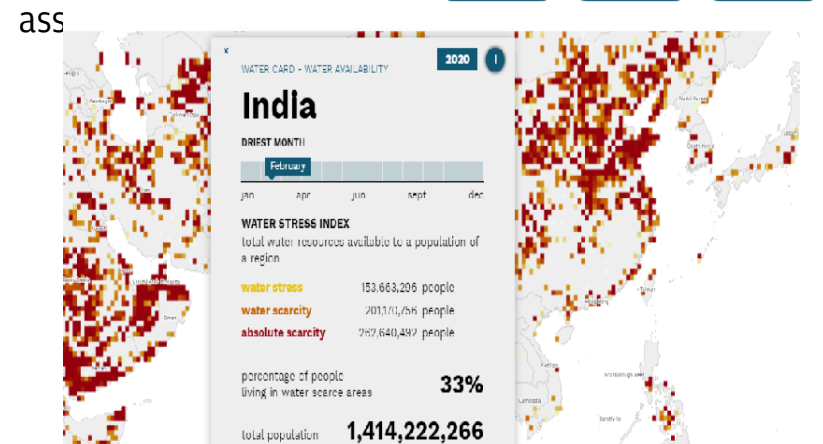
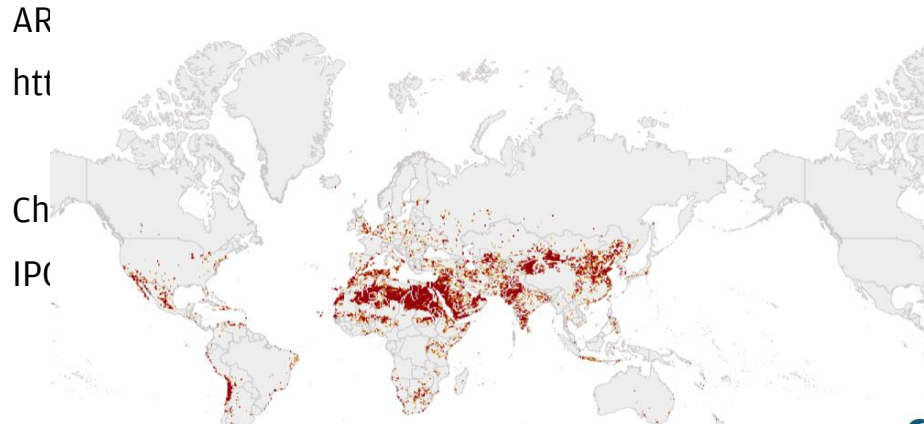
<https://worldwater.io/>



Emissions Gap Report 2021

<https://www.unep.org/resources/emissions-gap-report-2021>

Adaptation Gap Report 2021 <https://www.unep.org/resources/adaptation-gap-report-2021>



# जलवायु परिवर्तन से जुड़ी वैश्विक रिपोर्ट्स (आईपीसीसी रिपोर्ट के साथ)



Emissions Gap Report 2021 (<https://www.unep.org/resources/emissions-gap-report-2021>)

Adaptation Gap Report 2021 (<https://www.unep.org/resources/adaptation-gap-report-2021>)

AR6 Climate Change 2021: The Physical Science Basis (IPCC 6th assessment) (<https://www.ipcc.ch/report/ar6/wg1/>)

Under this see, IPCC regional interactive atlas ( <https://interactive-atlas.ipcc.ch/>)

IPCC regional factsheets (<https://www.ipcc.ch/report/ar6/wg1/#Regional>)

[ipcc.ch/report/ar6/wg1/#Regional](https://www.ipcc.ch/report/ar6/wg1/#Regional)

## Regional Fact Sheets

Regional fact sheets are an outreach product that is fully traceable to the Chapters, the Technical Summary and the Interactive Atlas. They constitute an entry point for regionalized information in the AR6 Working Group I report. (11 fact sheets)

| Download Regional Fact Sheets |          |
|-------------------------------|----------|
| Introduction                  | DOWNLOAD |
| Africa                        | DOWNLOAD |
| Asia                          | DOWNLOAD |
| Australasia                   | DOWNLOAD |
| Central and South America     | DOWNLOAD |
| Europe                        | DOWNLOAD |
| Mountains                     | DOWNLOAD |
| North and Central America     | DOWNLOAD |
| Ocean                         | DOWNLOAD |
| Polar regions                 | DOWNLOAD |
| Small Islands                 | DOWNLOAD |
| Urban areas                   | DOWNLOAD |

# यहां से भी ले सकते हैं आंकड़ें



## सरकारी

- राज्य सरकार की वेबसाइटें (मंत्रालय, विभाग)
- पार्लियामेंट/ रिपोर्ट
- सरकारी नीतियां (Policies)
- सरकारी अध्ययन (Studies)
- सरकारी ऑडिट रिपोर्ट
- न्यायालयों में रिपोर्ट

## सिविल सोसायटी/कॉर्पोरेट

## शोध पत्र/पत्रिकाओं में छपे अध्ययन

- डीओएजे, डायरेक्टरी ऑफ ओपन एक्सेस जर्नल्स <https://doaj.org/>  
14,907 जर्नल; 11,945 आर्टिकल; 133 देश; 5,071,025 से अधिक आर्टिकल

प्रासंगिक, महत्वपूर्ण स्रोतों की पहचान करें और उन्हें अपनी "डेटा डायरी" में शामिल करें

# यहां से भी ले सकते हैं आंकड़ें ...



सोशल मीडिया के माध्यम से भी चयनित स्रोतों (वेबसाइटों) को ट्रैक करें।  
सीएसई की साइट से भी ले सकते हैं जानकारीयें

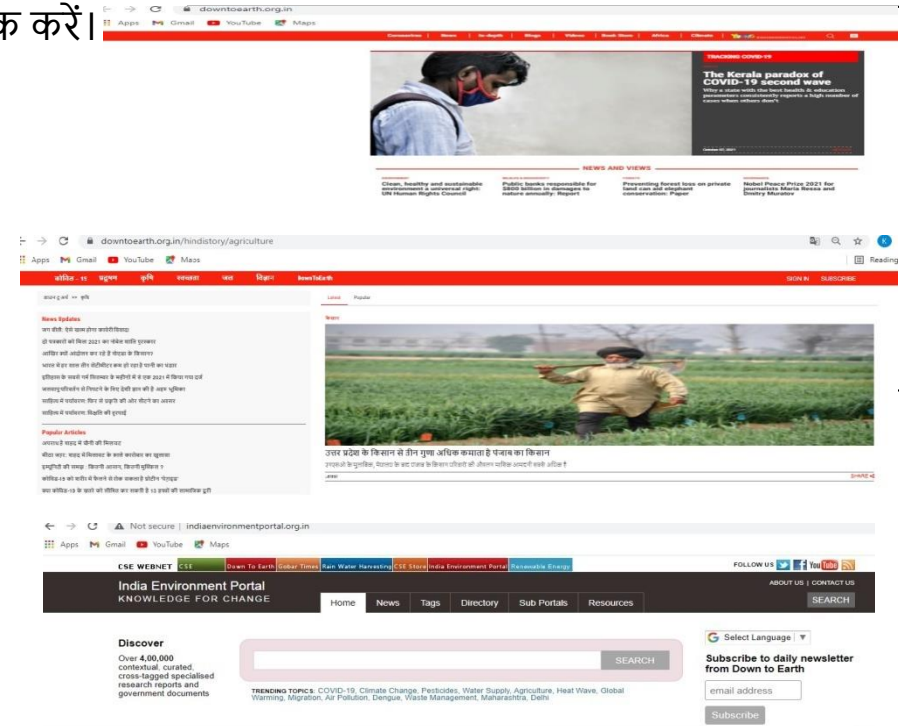
Down to Earth (<https://www.downtoearth.org.in/>)

Down to Earth (Hindi)

<https://www.downtoearth.org.in/hindistory>  
and

India Environment Portal

<http://www.indiaenvironmentportal.org.in/>)



# India Environment Portal

<http://www.indiaenvironmentportal.org.in/category/171/thesaurus/agriculture/>



Over **5 lakh resources** on environment | **Categorised** under **10,000 topics** | Countries; Indian states; districts/towns | **On climate change** : over 20000 reports, research papers + data sets

CSE WEBNET

CSE

Down To Earth

Gobar Times

Rain Water Harvesting

CSE Store

India Environment Portal

Renewable Energy

FOLLOW US



India Environment Portal  
KNOWLEDGE FOR CHANGE

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Sub Portals

Resources

SEARCH

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Reports (7955)

Featured Article  
(4516)

Opinion (211)

Presentation (75)

Data & Statistics (59)

Book (50)

Directory (37)

Court Cases (6)

## CLIMATE CHANGE



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Email

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## World Migration Report 2022

Bangladesh is the 6th largest migrant sending country and the 8th largest remittance receiving country, globally, says the International Organization for Migration (IOM). The IOM launched its flagship

01/12/2021 | *International Organization for Migration (IOM)*

Migration

Climate Change

Displacement

India

Africa

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Last Month (25)

Older Than A Year (32596)

Last Year (588)



डाउन टू अर्थ



कोविड - 19

प्रदूषण

कृषि

स्वच्छता

जल

विज्ञान

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## News Updates

आवरण कथा: मलेरिया, डेंगू और अब जीका वायरस.... मच्छर जनित बीमारियों का दोषी कौन?

आहार संस्कृति: गुलाबी ठंड में सजती थाली

केमिकल प्रदूषकों से एनीमोन मछली के प्रजनन में पड़ रहा है खलल: अध्ययन

## जलवायु संकट



2020 में भारत में 40 लाख लोग हुए विस्थापित, चीन सबसे आगे  
विश्व प्रवासन रिपोर्ट 2022 के मुताबिक, 2020 में जलवायु परिवर्तन की वजह से आ रही प्राकृतिक आपदाओं के चलते सबसे अधिक लोग विस्थापित हुए

02 Dec 2021

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## Centre for Science and Environment

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### Press Releases

#### Filter by Dates

 November 8, 2021 - December 7, 2021

[SEARCH](#)

#### Waste

CSE and NITI Aayog release 'Waste-wise cities' – compendium of best practices in municipal solid waste management

#### Antimicrobial Resistance Programme

How should the world and the Global South control the growing 'pandemic' of antimicrobial resistance?

# जब सब जगह होगा गूगल का साम्राज्य

- आपकी "डेटा डायरी", अंतर्राष्ट्रीय, राष्ट्रीय और क्षेत्रीय स्तर पर डेटासेट, सूच ना और ज्ञान के विविध स्रोतों को ट्रैक, नेविगेट करने और उन्हें बेहतर तरीके से समझने में आपकी मदद करेगी
- यह आपको सही आंकड़ें खोजने में मदद करेगी; इनकी मदद से अपनी कहानी (story) को मजबूत आधार दें, तथ्यों की जांच करें, और सबके सामने लाएं एक "ब्रेकिंग स्टोरी"
- जब सब कुछ गूगल पर निर्भर होगा उस समय भी यह आपको अलग तरीके से आपके आपने ढंग से डेटासेट्स को ढूढ़ने और समझने में मदद करेगी

नोट:

हमें आपकी डेटा डायरी और स्टोरीज देखकर प्रसन्नता होगी,  
इन्हें हमसे यहां साझा करें [kiran@cseindia.org](mailto:kiran@cseindia.org)



# धन्यवाद

अधिक जानकारी के लिए संपर्क करें  
**[kiran@cseindia.org](mailto:kiran@cseindia.org)**