

Climate Adaptation as a Feasible Tool Cannot Be Explained in 10 minutes

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www.iCARI.eu



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international Climate Adaptation Research Institute

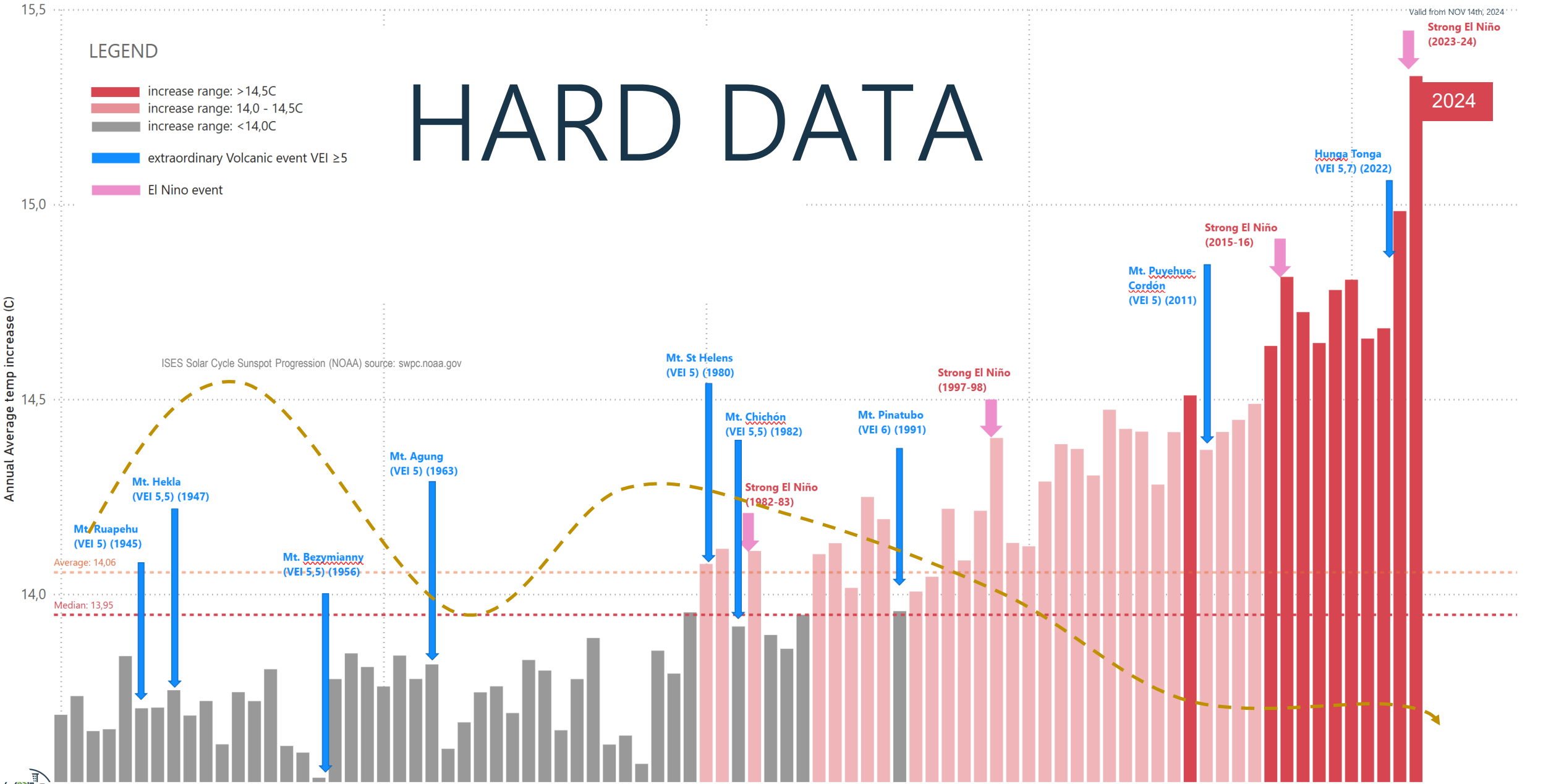


Global surface air temperature Annual average

Data source: ERA5, C3S/ECMWF, interpretation by: international Climate Adaptation Research Institute: icari.eu



HARD DATA



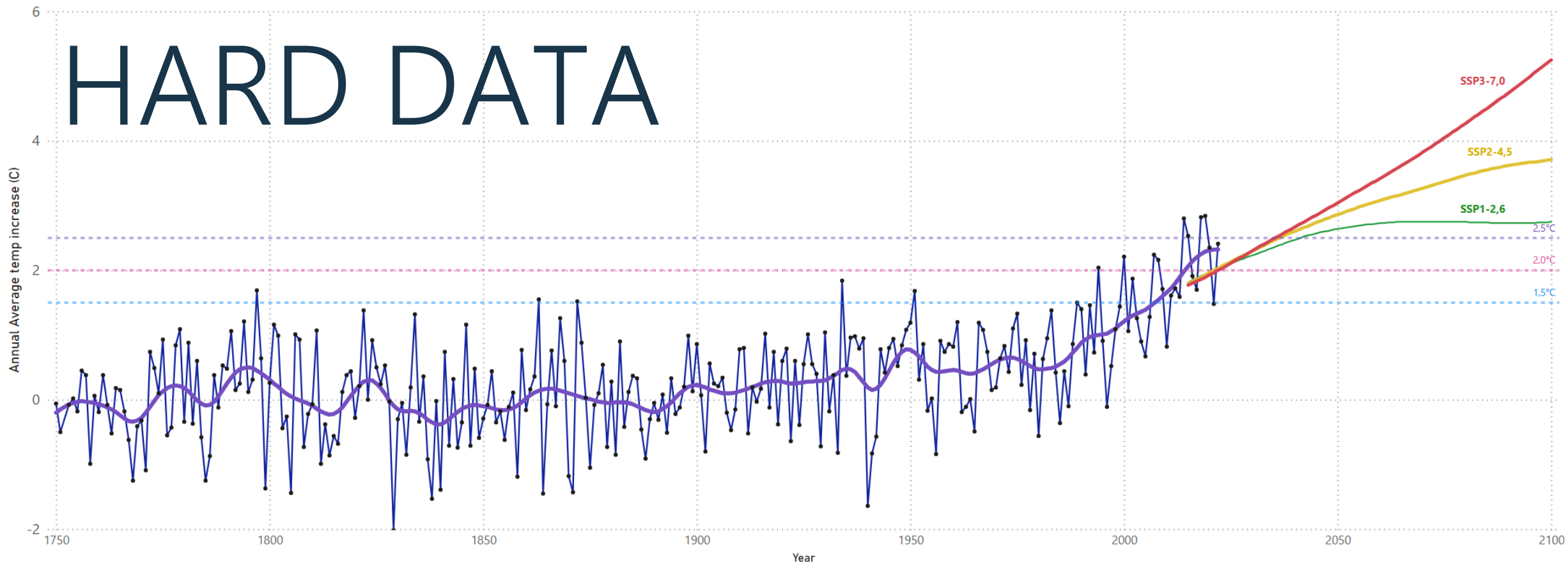
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Warming in Slovakia by Annual Average temp increase and SSPatways

Dataset source: Berkeley Earth Surface Temperature Dataset, interpretation by international Climate Adaptation Research Institute, icari.eu



HARD DATA



LEGEND

OBSERVATIONS:

- Annual average
- 10-year smooth

SCENARIOS (Model Average, IPCC AR6):

- **SSP1-2,6:** Quick decline Global GHG emission: Net zero around 2075
- **SSP2-4,5:** Intermediate Global GHG emission: around current levels until 2050
- **SSP3-7,0:** Increasing GHG Global emissions: double by 2100

Last year in the Model

2022

Average temp (°C)

2,41

SPP3-7,0 AVG in 2030

2,30

SPP3-7,0 AVG in 2050

3,04

SPP2-4,5 AVG in 2030

2,30

SPP2-4,5 AVG in 2050

2,86

SPP1-2,6 AVG in 2030

2,23

SPP1-2,6 AVG in 2050

2,64

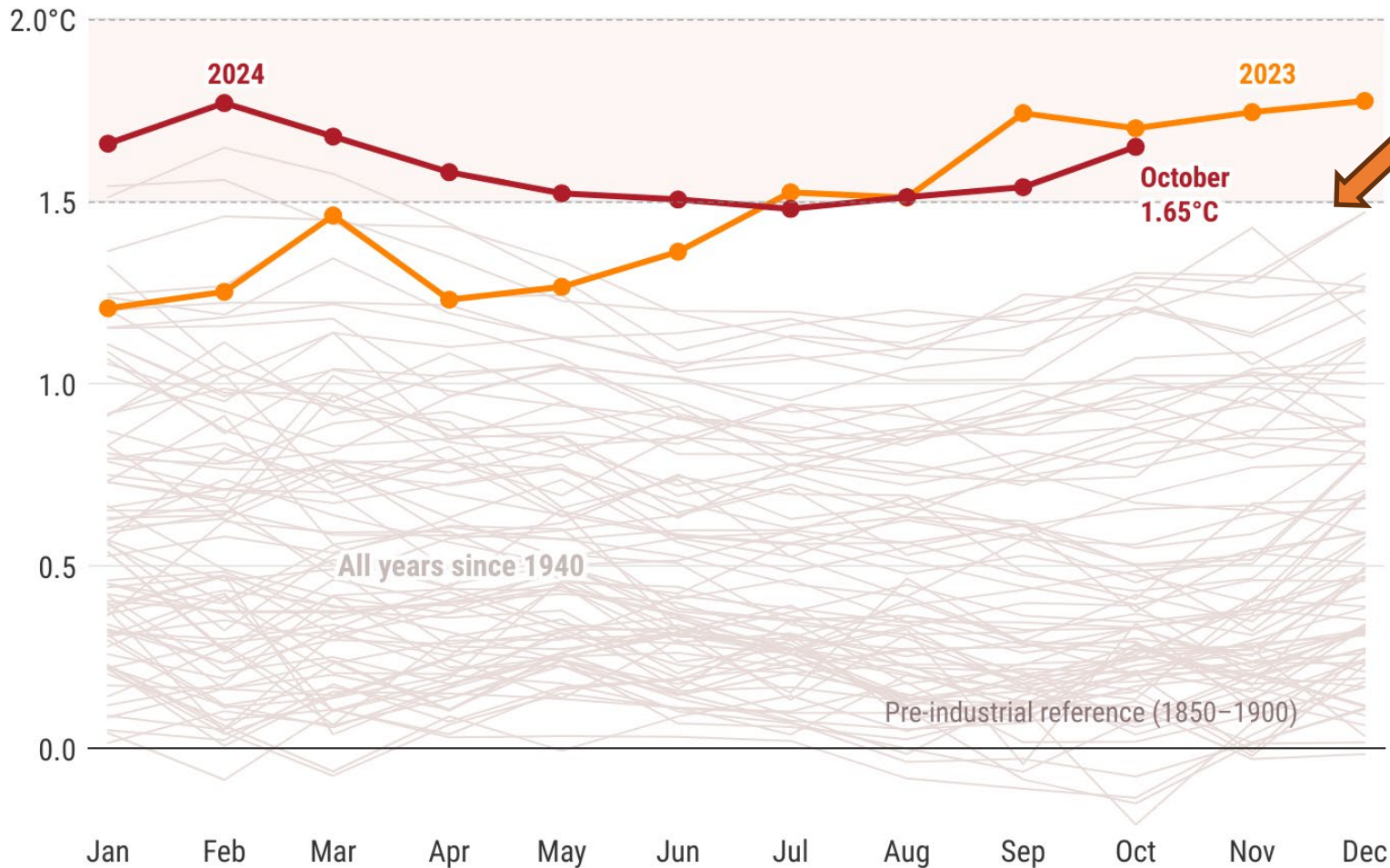




Monthly global surface air temperature anomalies

Data source: ERA5 • Reference period: pre-industrial (1850–1900)
Credit: C3S/ECMWF

HARD DATA



Paris Agreement (XII.2015)
IT IS OVER



PROGRAMME OF THE EUROPEAN UNION



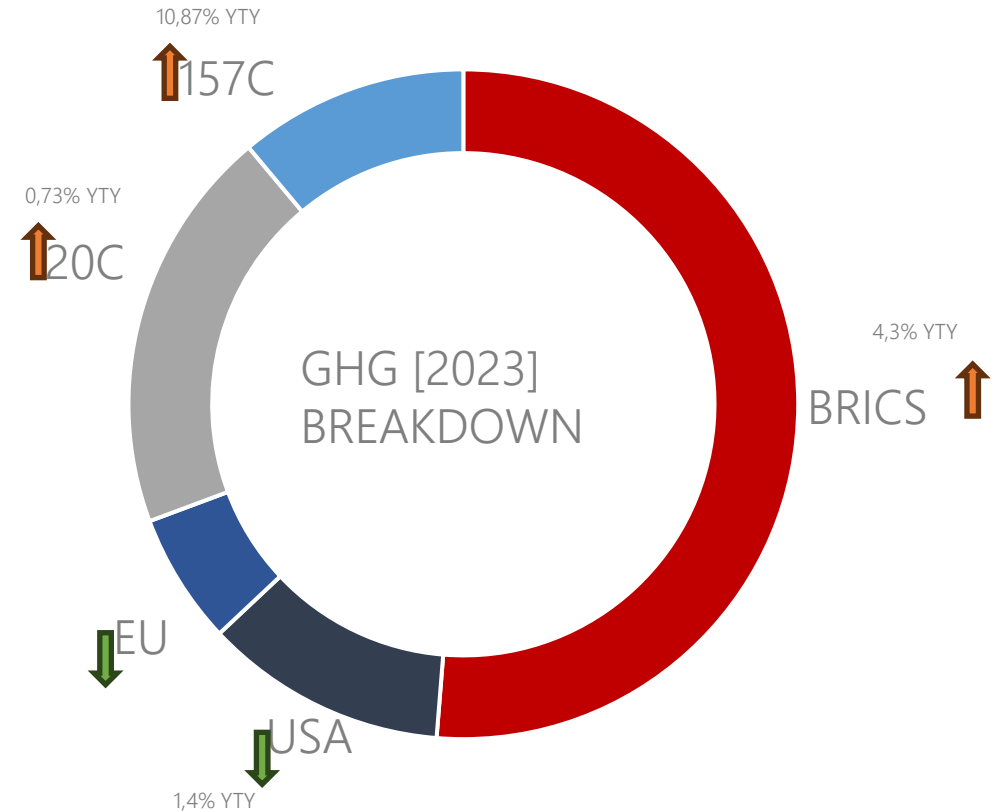
1,91% ↑
GLOBAL GHG YTY [2023]

-7,48% ↓
EU27 GHG YTY [2023]

= ABS ↑
INDIA GHG YTY [2023]

5,17% ↑
CHINAL GHG YTY [2023]

6,06% ↑
INDIA GHG YTY [2023]



IT IS ALL ABOUT DATA

SOURCE: JRC/EDGAR V9 (09/2024)

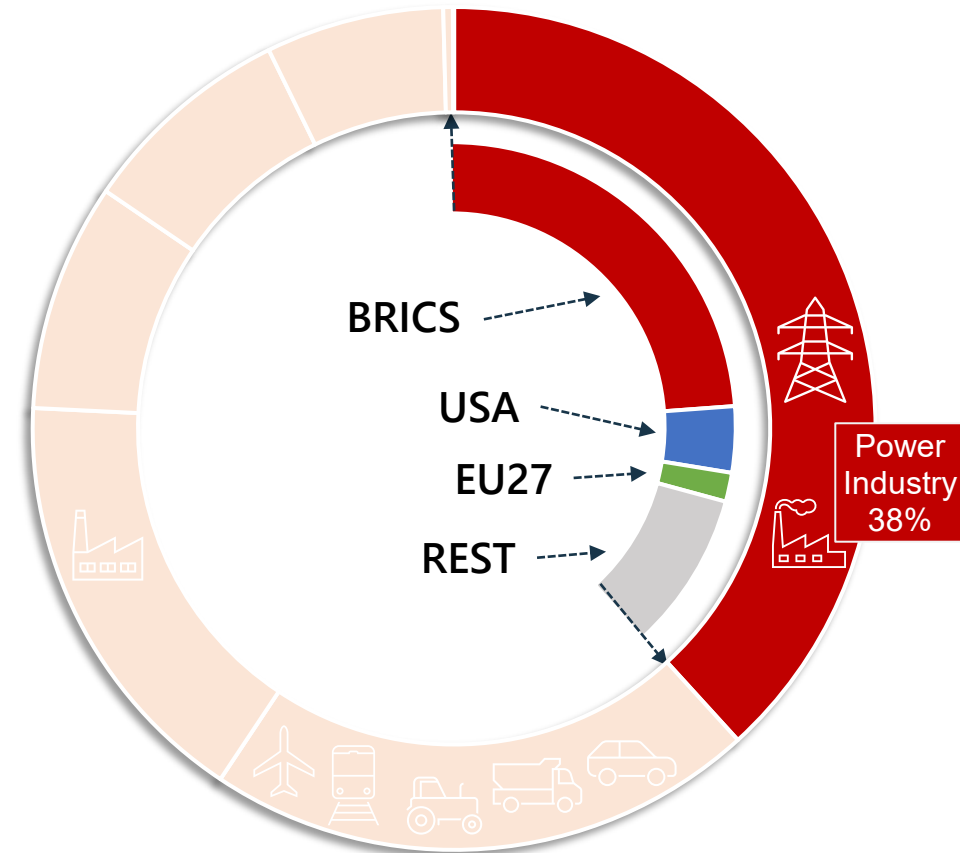


POWER INDUSTRY

UNFCCC 1.A.1:
Primary energies production, Oil refineries,
Manufacture of Solid Fuels and Other Energy Industries



2023 CO₂ EMISSIONS SHARE BY GROUPS

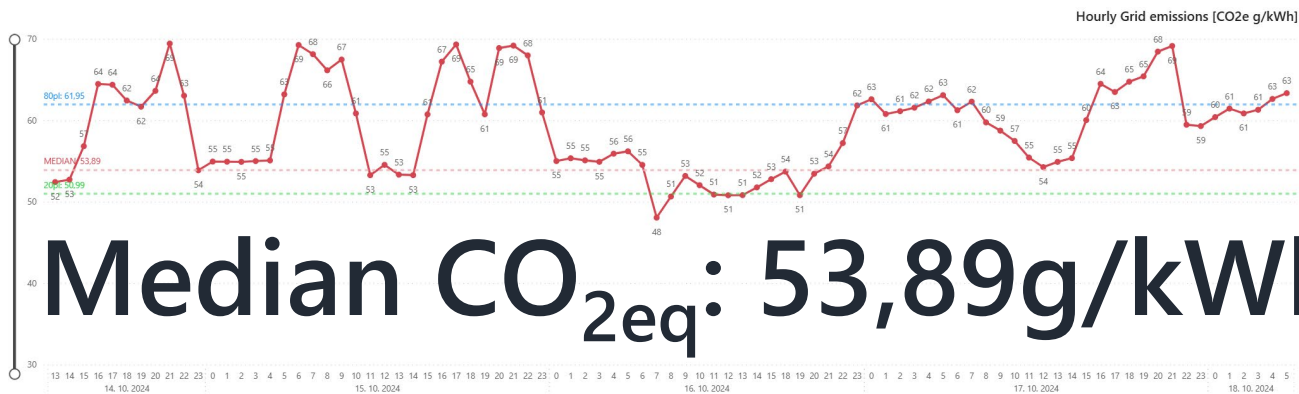


POWER INDUSTRY

Electric energy production MIX (OCT 18th, 2024, ENTSO-e dataset)

JAN 1st – OCT 18th 2024

22,94TWh



Range of BESS: 70-135 g/kWh CO_{2eq}

IPCC AR6

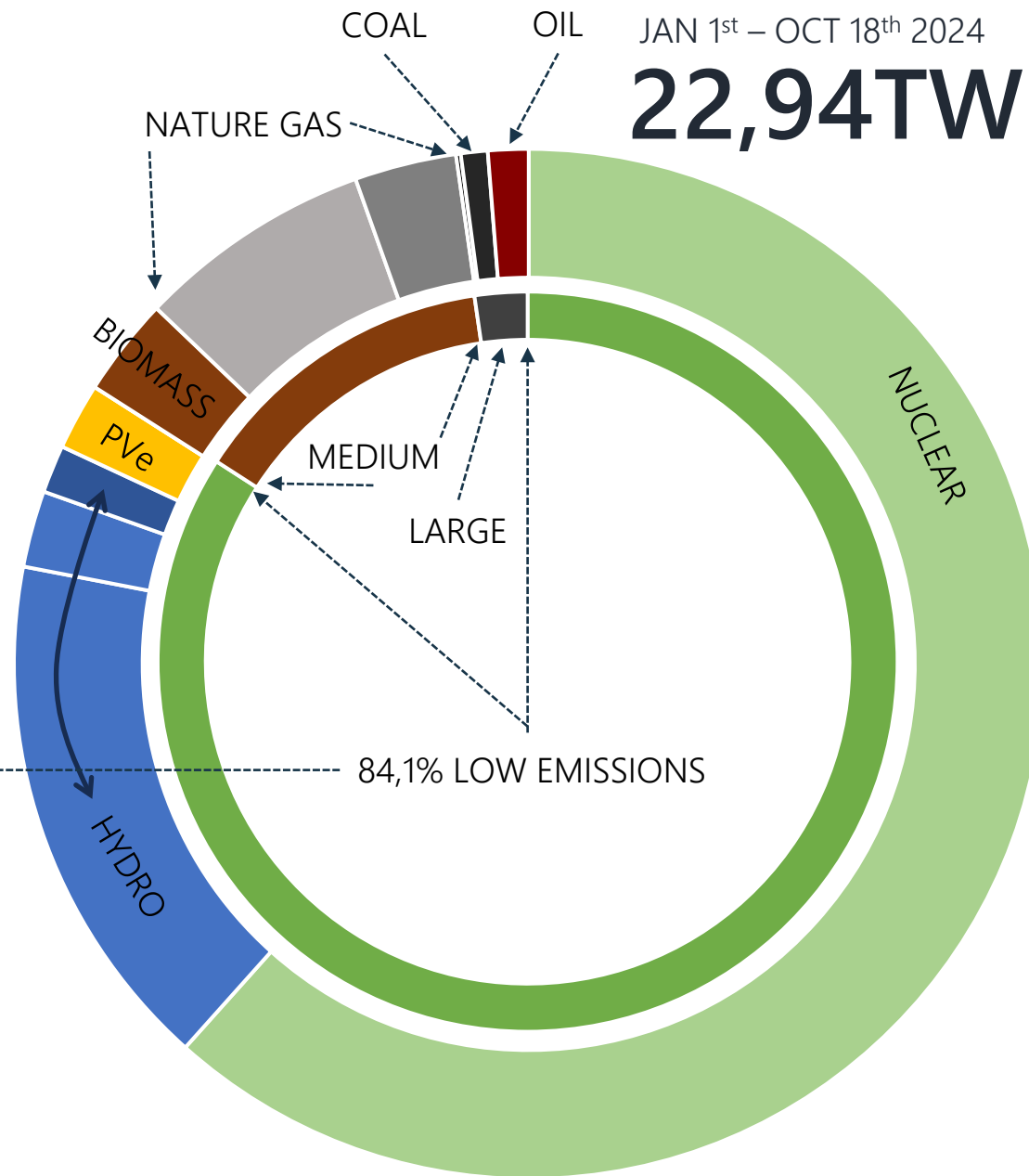
Gutsch and Ieker, Global warming potential of lithium-ion battery energy storage systems. Journal of Energy Storage 2022

OCT 2024

85,9%

84,1% LOW EMISSIONS

Mochovce 4. NPP:
Median <40g/kWh



Najzelenšia energia je tá, ktorú nepotrebuje



Hľadať zbytočne používané zdroje
na zbytočný účel.
Identifikovať. Optimalizovať. Odpojiť.
Nepotrebuje to nahrádzať inými zdrojmi.



znižovať emisie za každú cenu,
generalizovaným postupom,
globálnymi konštantami,
bez kritického uvažovania

Mitigácia energetiky?

alebo Adaptácia energetiky?

Vytvárať energetický mix,
ktorý zohľadňuje Klimatickú zmenu a jej vývoj,
možnosti krajiny a zabezpečuje udržateľnú
výrobu energie v krajine.
A zabezpečí aj mitigačný efekt.



RESILIENT ADAPTATION



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