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Intergovernmental Panel on
Climate Change IPCC

15 ⑤ “ ”

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International Energy Agency IEA ⑥

United Nations Environment
Programme UNEP 2021

⑦ “ ”

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“ ”

“ ”

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- ① The human cost of disasters an overview of the last 20 years 2000- 2019
human-cost-disasters-overview-last-20-years-2000-2019.
 - ② Atlas of mortality and economic losses from weather 1970- 2019
 - ③ S.Diaz.Pervasive human-driven decline of life on earth points to the need for transformative change SCIENCE 2019
366 .
 - ④ Hottest july ever signals“ Era of Global Boiling has Arrived” says UN chief 07/1139162.
 - ⑤ Climate change 2022 impacts adaptation and vulnerability
 - ⑥ Global energy review CO₂ emissions in 2021
 - ⑦ Production gap report 2021
 - ⑧

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① E.Chaimaa
as a case study Applied Energy 2023 2 .

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③ R.Aghamolaei H.M.Shamsi

districts a comparison of on-site centralized and distributed PV installations Renewable Energy 2020 9 .

④ Y.Zhang X.B.Dong X.C.Wang et al.The relationship between the low-carbon industrial model and human well-being a case study of the electric power industry Energies 2023 3 .

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**China's Economic and Social Zero-Carbon Transition Strategy:
Incremental Improvement or Reverse Change**