



... James E. Hansen Veerabhadran Ramanathan ...

Why him?

- 01. Quantified the danger of global warming through collecting and analyzing the data of climate system's
- 02. Elucidated the physics of climate forcings and feedbacks
- 03. Communicated the threat of global warming to the public







Human activities accelerated Global Warming



Participated in the development of GISS
Model, one of the first two global threedimensional climate models in the world.





3 Testified in US Congressional Hearing in 1988 that "Global Warming is Here!", and indicated that "human activity" has been the major cause of global warming.



He told us the consequences of global warming!



If the CO2 emissions from burning the for completely stopped between 2025 to 2030, the following catastrophes may happen:





The occurrence frequency of intense storms and extreme will be inundated due to sea weather events such as tornado, flood, and drought, etc will











Why him?

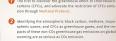
- 01. Has developed the fundamental understanding of
- 0 2. His groundbreaking researches on the impacts of climate system affected by air pollution and greenhouse gas emission has tremendous contributions.
- 0 3. Facilitated the policies for the mitigation of global warming and air pollution.







Encourage whole world to take action



- The first to discover the greenhouse effect of chlorofluorocarbons (CFCs), and advocate the restriction of CFCs emis
 - pacts of these non-CO2 greenhouse gas emissions on global warming are as serious as CO2 emission.
- to Reduce Short-lived Climate Pollutants", of which the members currently include 33 countries.
- Leads the "Project Surva" to improve the health of people and reduce the climate-warming impacts by utilizing the clean energy for cooking to replace the solid biomass fuel in







During the activities in our daily life, there are still a lot of non-CO: greenhouse gases has been produced.



We have ability to change!

- Once, our activities caused the depletion of ozone layer...an ozone hole occurred above Antarctica. Since the global collaboration for decades, the good new was released in 2018.
- Nowadays, achieving the equable climate for our earth is the primary tasks for all nations by reducing the greenhouse gas emissions and



3 Dr. Hansen and Prof. Ramanathan's works lay the scientific foundation for international actions as the Paris Climate Agreement and the new global development Agreed 2030.



We believe that the climate changes and global warming can be mitigated and achieve to sustainable planet through the global partnership.

