The effects and solutions to climate change

Ranging the energy mix to reduce dependence on fossil fuels and promote the development of renewable energy sources. This initiative depends on public awareness and action. Raising public awareness and action on climate change is key. Education and communication are key to raising public awareness, and by strengthening climate change education, providing actionable solutions and encouraging sustainable lifestyles, more people can be inspired to join the fight against climate change. Meanwhile, international cooperation and policy development also play an active role in combating climate change, which requires international cooperation and coordination to solve. Differences in the levels of development, interests and policies of different countries can hinder effective cooperation. Therefore, there is a need to establish a global cooperation mechanism and develop an effective policy framework to ensure that countries take an action on climate change. And experts can provide mental health support, psychological counselling, treatment and social support for coping with mental health issues caused by climate change. The public should strengthen epidemic prevention and control measures to reduce the risk of the spread of infectious diseases at the same time.

Moreover, as a PhD from AMAT, I think the most effective way is by innovative technology. While technology and innovation are key components of the solution, achieving adoption and adoption of these technologies will require overcoming multiple challenges, including funding, policy support, and market acceptance. (cited from https://www.wipo.int/edocs/pubdocs/zh/wipo-pub-1080-2023-exec-summary-zh-green-technology-book.pdf)

Actually, some advanced materials have been developed and successfully used to prevent the room temperature from increase too high when irradiated by solar light. The in-situ growth of copper-doped tungsten trioxide nanoparticles in polymethyl methacrylate allows a low-cost preparation of photochromic films with a high luminous transparency. And this film just needs to be attached to the outer surface of the existing windows with a transparent adhesive layer between the film and the glass. (cited from ﻿Adv. Mater. 2024, 36, 2304910)