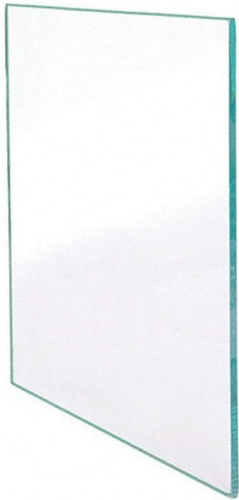


Pioneering Sustainable and Transparent Glass Formulations for Climate Resilience

Paul W. Leu

Project Objectives
(in green)

Future objectives
(in black)



Sustainable Manufacturing

- Aims to eliminate CO₂e emissions during production
- Utilizes recycled glass to conserve resources
- Lowers processing temperatures, cutting down energy consumption
- Intolerant to impurities, reducing the need for raw material purification



High Transparency

- Increases natural light via windows, enhancing indoor illumination
- Boosts the energy efficiency of solar panels, lighting systems, and electronic displays



Low Emissivity

- Lowers heat transfer through windows, reducing energy loss
- Minimizes the need for heating in winter and air conditioning in summer, saving energy