

HORIZON

Opportunity:

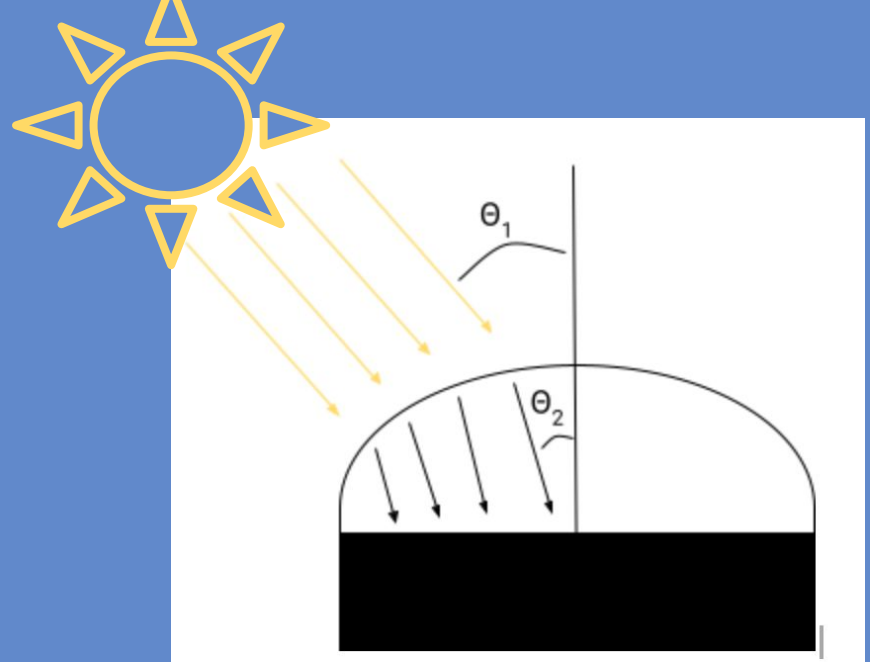
- Modifying the angle of incident light leads to increased power generation.
- Sun-tracking systems are tend to be 40% or more costly than fixed systems.

Solution:

- HORIZON modifies the incident angle using the shape of the lens and refractive index of PMMA to boost power generation.

Benefits:

- Single-axis sun-tracking systems increase efficiency by 30% over fixed systems.
- HORIZON will mimic the function of sun-tracking systems without the substantial costs associated.



$$I_f = I_i \cos(90 - \Theta)$$

$$\Theta_2 < \Theta_1$$

$$I_{f,2} > I_{f,1}$$