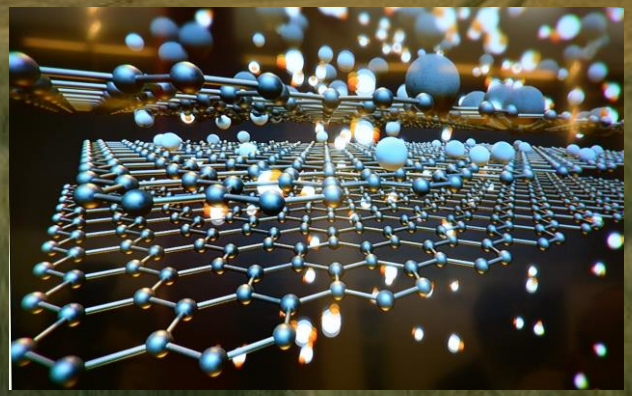
Enhanced PV Efficiency via Passive Cooling

PV efficiency gains using advanced materials and heat transfer innovation

- PV panels get hot *65°C (149°F)*
- Performance drops of more than *10%* are common
- A 200MW peak solar farm at *65°C = 166MW (17% drop)*
- *~$8,300/hour lost*

Solution

Graphene composite back structure with advanced thermal design…lower temps 10 - 20°C (18 -36°F)



- Low cost
- Low maintenance
- Higher efficiency – fewer panels
- Increases life of panels
- Snow/ice clearing potential
- Complete US supply chain
- Field ready 2 – 4 years

Enersla LLC