



Harrison Bays Manufacturing, and Construction students assembling two parabolic solar concentrators.

Principals of Manufacturing (9th Grade)



HVAC (10th grade)



Solar Concentrators reflect and focus the sun's solar energy onto a small receiving area called the focal point... By concentrating the sunlight to a single spot, the intensity of the receiving solar energy is magnified many times acting as a single sun shining directly at the same focal point on the dish meaning that more overall power per square meter of dish is achieved. **This helps create Concentrated Solar Power (CSP).**

CSP is used to produce electricity (sometimes called solar thermoelectricity, usually generated through steam). Concentrated-solar technology systems use mirrors or lenses with tracking systems to focus a large area of sunlight onto a small area. The concentrated light is then used as heat or as a heat source for a conventional power plant (solar thermoelectricity). The solar concentrators used in CSP systems can often also be used to provide industrial process heating or cooling, such as in solar air conditioning.