



Solar Reflection Panels

POTENTIAL MARKET APPLICATIONS

Solar Energy

Renewable Energy

Solar Thermal Power

BENEFITS

Low cost materials used to construct the solar collector

Advanced, low cost manufacturing processes

Durable to environmental stresses

Optical properties are maintained over many years due to durability

Greater Power

Greater Efficiency

INTELLECTUAL PROPERTY

US PATENT #7,077,532

SD# 6358

TECHNOLOGY SUMMARY



There has long been a need for a low cost, high-performing solar collector that will allow solar thermal power to compete with other power sources. While advancements have been made, a need for a cost effective and durable solar collector still exists. Sandia National Laboratories has developed a solar collector that is more efficient, utilizes advanced and low cost manufacturing processes, and has good optical properties.

Unlike other solar collectors that are known to lose solar reflectivity due to issues with their design, the solar collector developed by Sandia is designed to maintain performance and efficiency for many years. It is designed to be durable to environmental stresses allowing optical properties to be maintained.

TECHNOLOGY READINESS LEVEL

Sandia estimates this technology at approximately TRL 5. Key elements of this technology have been demonstrated in relevant environments.

Bianca Thayer | 505.284.7766 | bkthaye@sandia.gov



Sandia National Laboratories

Sandia National Laboratories is a multi-program laboratory managed and operated by Sandia Corporation, a wholly owned subsidiary of Lockheed Martin Corporation, for the U.S. Department of Energy's National Nuclear Security Administration. SAND # 2011-6043P