High Conductivity Wire Technology

TECHNICAL OBJECTIVES AND PROPOSED DELIVERABLES

The purpose is to develop a new kind of PV system using the patented High Conductivity Wire Technology (HCWT).

1. Perform several simulation tests to verify the product performance in real world conditions.
2. Enhanced engineering design by our team on building a low-cost circuit that is simpler and more durable than the prototype.
3. Determine HCWT performance in real world implementations through evaluation of our patented AIT-based products and other embedded HCWT products for the solar panel manufacturers.

These prototype device variables show optimal performance levels for energy efficiency, electricity generation and durability.
The high-conductivity wire according to the embodiment we tested can be more advantageously applied to photovoltaic devices such as crystalline silicon solar cells, thin-film solar cells, dye-sensitized solar cells, and organic solar cells, and can be applied to microbial generators and fuel cell generators.