

SnowFree PV solution

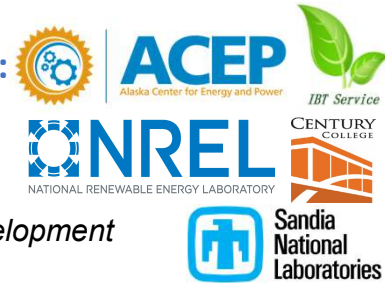
Goal: Demonstration stable materials solution to reduce snow cover time.

Problem / Challenge: Snow cover reduces electricity production and causes hardware failure in northern states. Current approaches are not cost effective.

SnowFree Solution – Thin film materials with ice-phobic, super hydrophobic surface and high transmission rate that can be applied to PV modules and will last for years.

Team: SnowFree

American Made Network Partners:



Team –

- Experienced materials scientists
- Industrial technologies for technology development
- ACEP and the Solar Lab. partners
- America made network connectors, partners and National Lab. experts
- Excellent innovation and implementation record, IEEE Fellow, Fellow of National Academy of Inventors, multiple technologies implemented in product, multiple National Awards, R&D 100 Award...



The Set stage deliverables:

- Develop optimized materials meet ice-phobic, super hydrophobic and transmission rate requirements, and processes to apply to PV modules and frames.
- Establish test setup for and complete proof-of-concept demonstration.

Planned work at the Go stage and beyond:

- Complete reliability (stress) test for materials stability and lifetime
- Use optimized materials and processes, conduct full scale field tests.
- Identify US manufacturing path and product demonstration for PV manufacturers.
- Joint development or licensing agreement in place.

