

Project Title: Shade and Seal Solution

Challenge

Buildings consumes 40% of all energy use in the US. > 99% of building are existing building and needs retrofit technology to improve energy efficiency. The leading terms to energy efficiency of the buildings are:

1. Insulation and air leak
2. Shading
3. Smart control

Proposed Solution

Specialized materials and devices to enable safe, reliable retrofit solution that improve energy efficiency of the building.

- Air seal technology for building envelope
- Self powered window shading
- Individual controlled air register for smart building

Benefits

- Each solution can be directly retrofit to existing building with almost none invasive and minimal impact to residence life.
- Energy efficiency improve by more than 30%.
- Project cost 80% reduction as compared to other approaches.
- Patent pending technology with prototype design.



Partnering/Team

Team:

Efficient Building

Lead by:

Minnesota Business Service

American Made Network Connector:

International Business and Technology Service Corporation (IBTSC)

