Solar Window Blind
Thermal and Electrical
Energy Collector
First Source Trading

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Project Summary
Motivated by the increasing pressure to reduce green house gas emissions, First Source Trading is an entrepreneurial company targeting the development of solar energy applications. First Source Trading has detailed a window blind design concept that, while maintaining window functionality, also captures solar thermal and electrical energy. An analytical model and single louvre test bed were built to demonstrate heating capacity for a single pass of fluid in a louvre with exposure to solar radiation. This seven-month project included the design and build of a full-scale proof-of-concept incorporating thermal and electrical power generation into a window-sized unit.