









## **ACTUATED OPENING** PLAN (TOP) VIEW SMA ACTUATION GATHERS STRUCTURE TOWARDS RIGID CONNECTION CREATING OPENING RIGID CONNECTION - ENTRY - - - - -NON-ACTAUTED OPENING PLAN (TOP) VIEW MANUAL OPENING AT RIGID CONNECTION CREATED BY SCALE CHANGE OF PANELS RIGID CONNECTION

## **ENERGY REQUIREMENTS**

Energy required to actuate 24 inches of SMA once = .01wH Energy required light 12 LEDs for 1 hour = 12wH Energy required to continuously power microcontrollers = ? \* 10 times per hour = .1 wH

Per panel energy hourly requirement estimate: 12.1 wH

## **ENERGY INPUT OPTIONS**

Ideal: solar cells

Next best: solar cells + batteries

Least appealing: long extension cord



3 in. diameter silicon solar cell: 4.5 watts per hour max



