

2011 THIRD PLACE

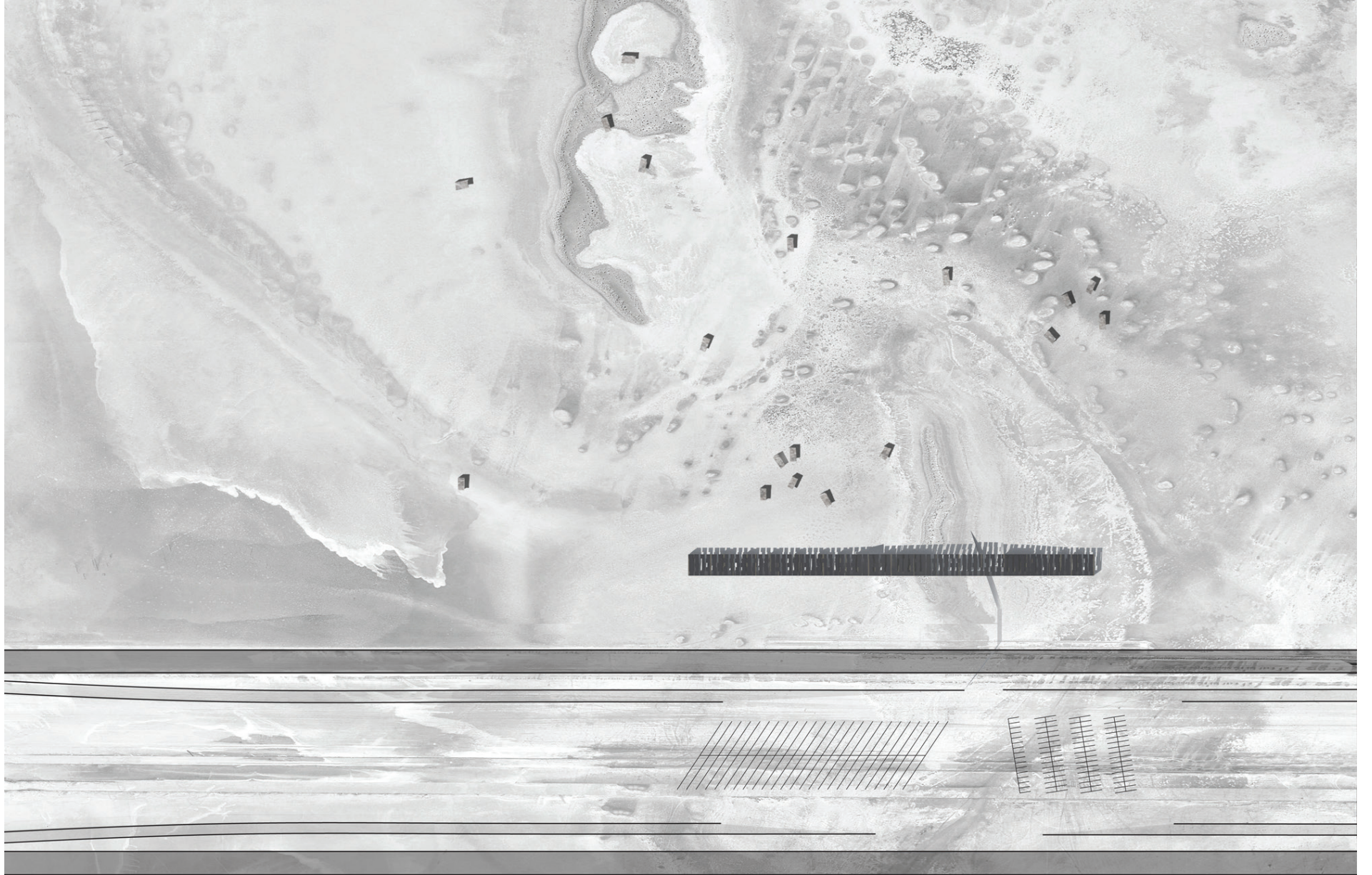
Boris Morin-Defoy

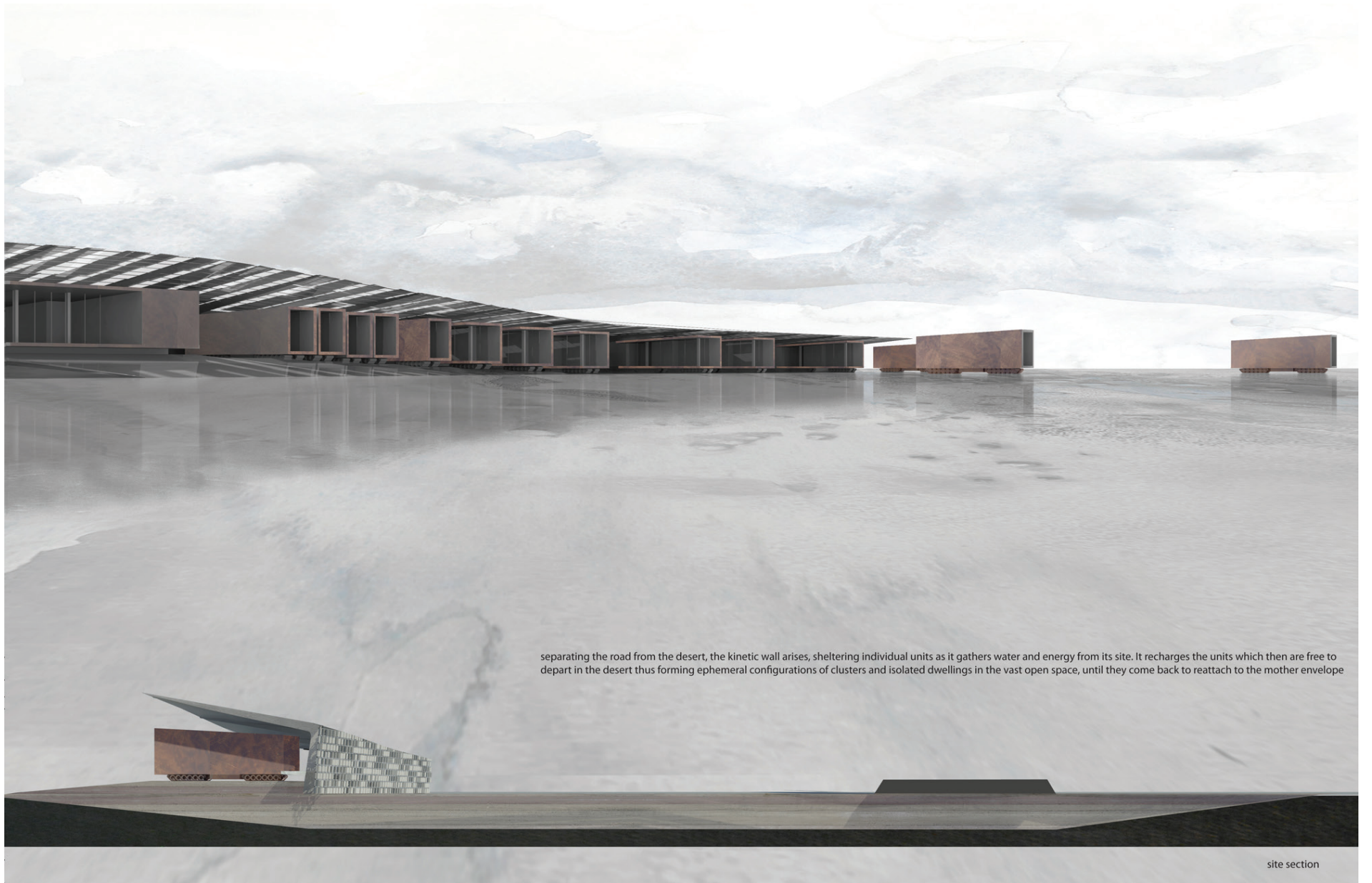
LYCEUM

*A traveling fellowship in Architecture*

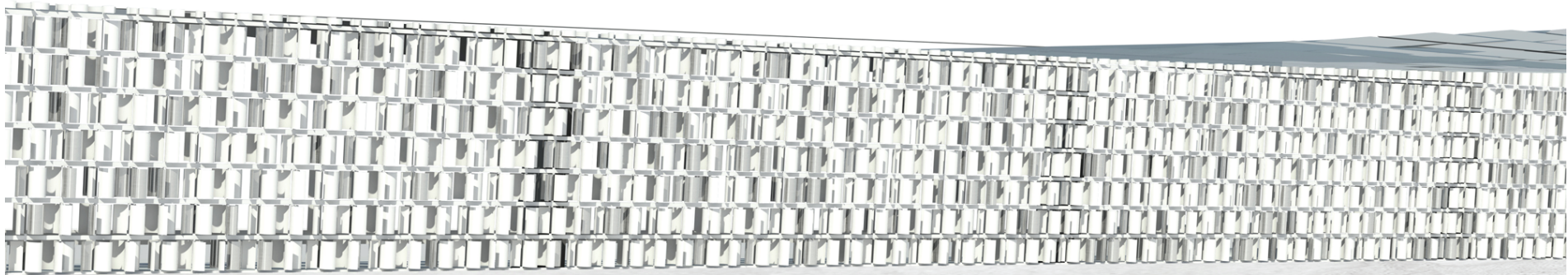


dock and roll

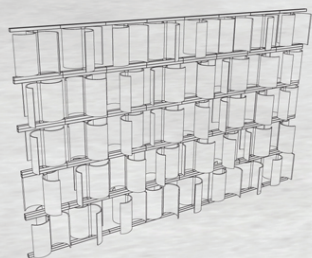




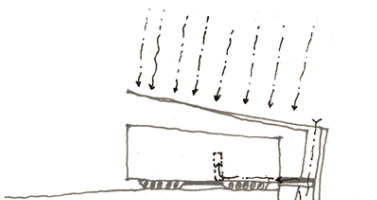
separating the road from the desert, the kinetic wall arises, sheltering individual units as it gathers water and energy from its site. It recharges the units which then are free to depart in the desert thus forming ephemeral configurations of clusters and isolated dwellings in the vast open space, until they come back to reattach to the mother envelope



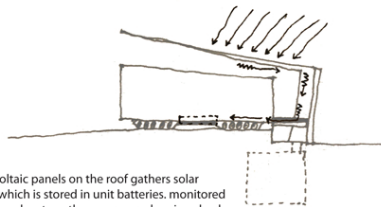
**THE WALL**  
as gatherer of wind, water and sun



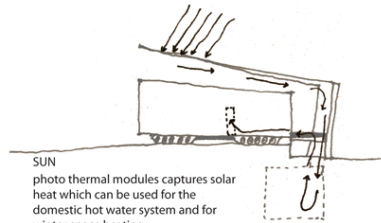
**WIND**  
creating a kinetic visual and auditory barrier between the desert and the road the wall formed of thousands of savonius vertical axis wind turbines collects wind power as it gives a mirage effect to the passing traveler



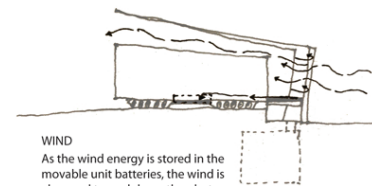
**WATER**  
rain water falling on the roof is redirected in the storage tank and pumped in the units, while grey water is returned to the system, treated and re-pumped



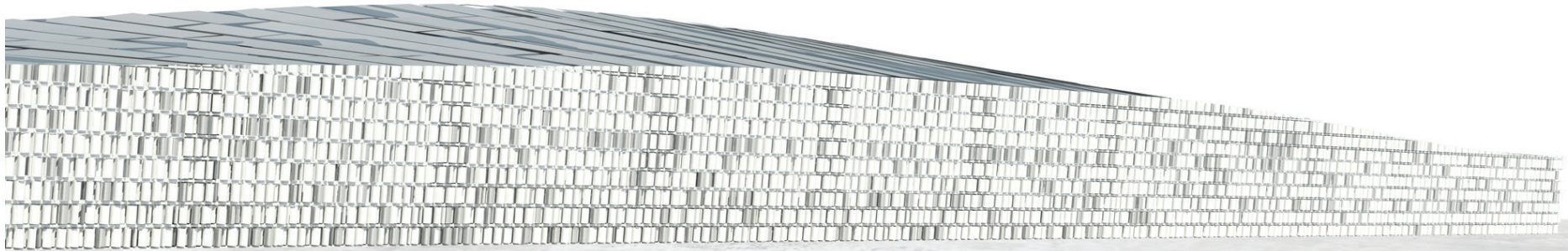
**SUN**  
photo voltaic panels on the roof gathers solar energy which is stored in unit batteries. monitored by a general system, the energy can be given back to the envelope in peak demand periods



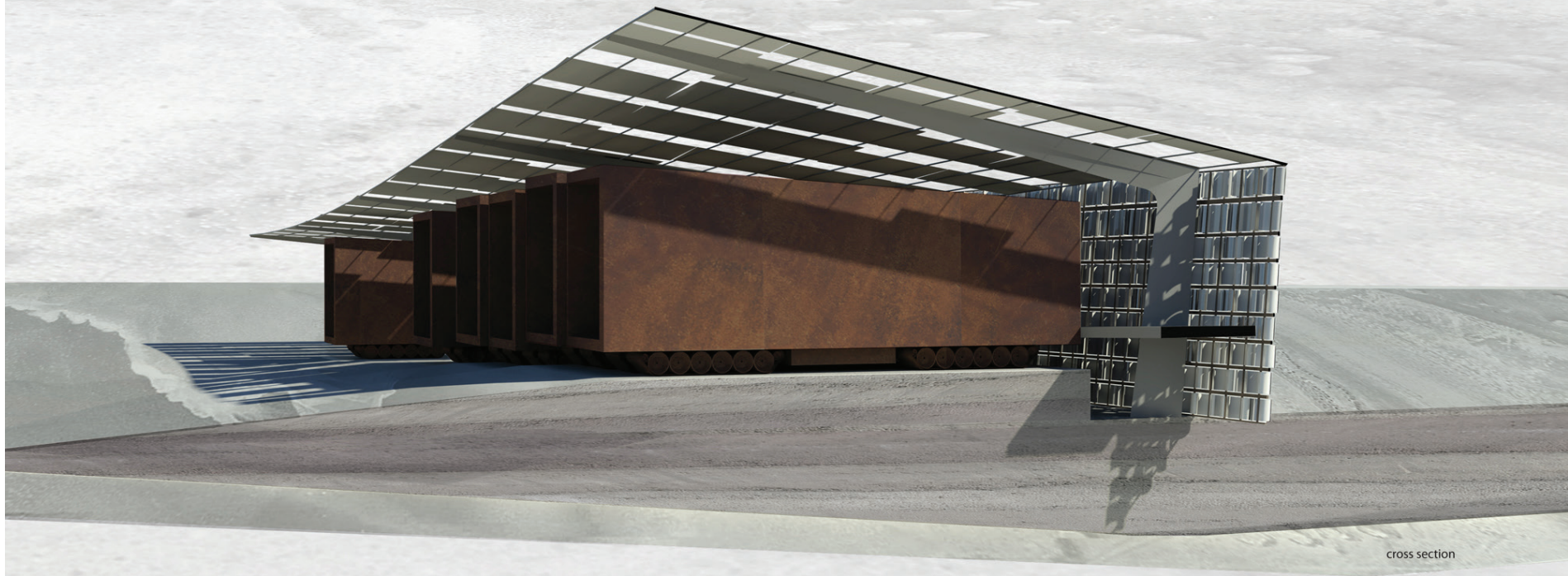
**SUN**  
photo thermal modules captures solar heat which can be used for the domestic hot water system and for winter space heating



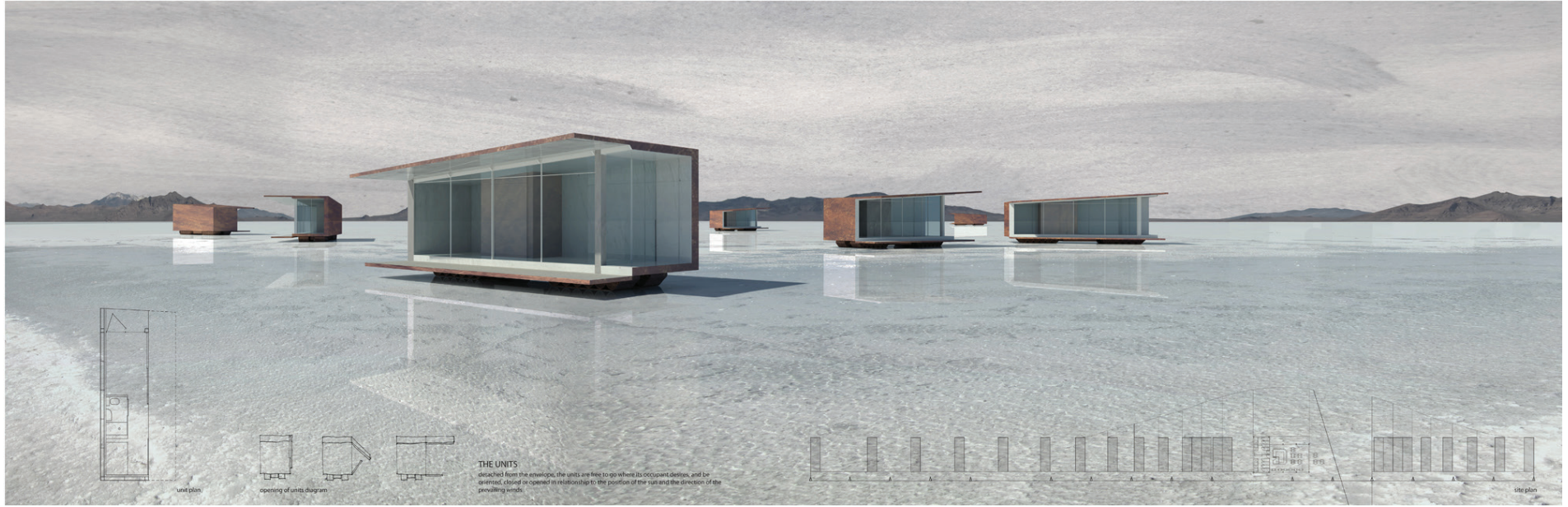
**WIND**  
As the wind energy is stored in the movable unit batteries, the wind is also used to cool down the photo voltaic system



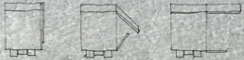
view of the wall from the road



cross section

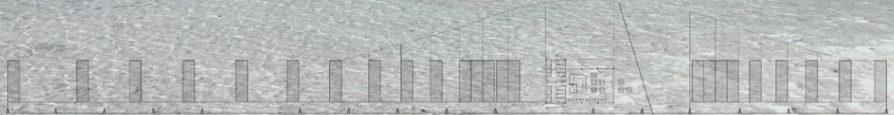


unit plan



opening of units diagram

**THE UNITS**  
detached from the envelope, the units are free to go where its occupant desires, and be oriented, closed or opened in relationship to the position of the sun and the direction of the prevailing winds.



site plan