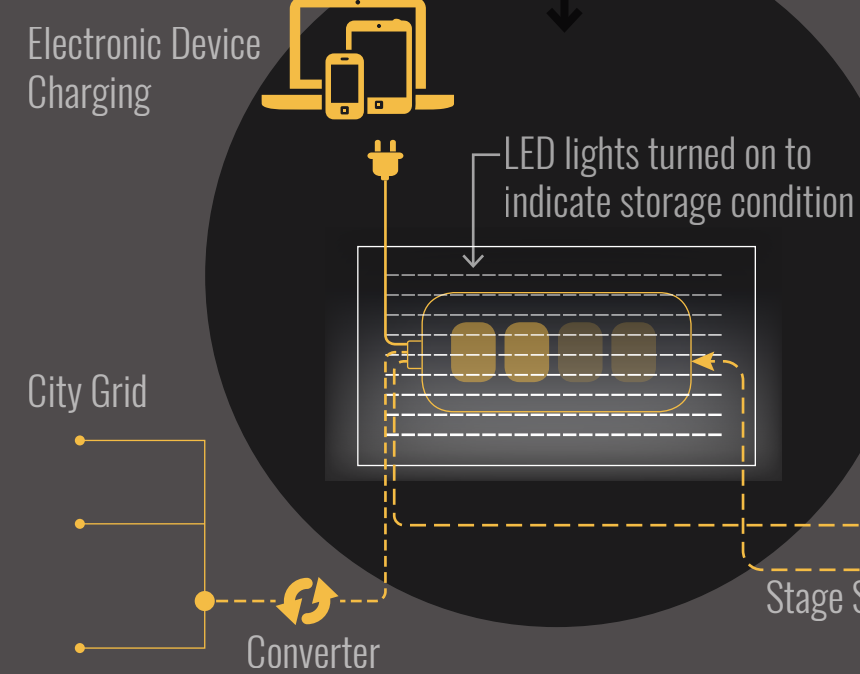


Carbon Zero Building Gel Battery
Two 5 kWh Batteries in Type A Bench
Possible Future Capacity of demand increases

BENCH



While walking underneath the array, a visitor will notice that each panel is elevated above a bench. The benches are arranged along the circulation paths at varying densities and each contain a gel battery. The benches are illuminated at dusk to reveal the level of the battery's charge. The level of the light in the bench will correspond to its charge level: a bench will be fully lit up when the battery is fully charged and dark if it is empty. Visitors will notice that the battery levels vary in a pattern across the site: the panels that are closer to the optimal angle for that time of year will have more charge than the others.

Visitors will have the opportunity to engage directly with the storage in the benches by charging their phones with the stored energy. Each bench will be equipped with two USB charging ports. Each panel is estimated to produce 100 kWh per year and the benches are estimated to consume 34 kWh per year. The batteries within each bench will allow the lights and phone charge ports to remain solar-powered throughout the year, even on cloudy days, at night, or in the darker winter months when productivity is lower. On particularly sunny days, some of the panels above the benches will produce more than the battery can hold. In these cases,

the excess power will flow through underground conduit to the central battery on the site: the battery underneath the stage. This distribution of power will be made visible through embedded lighting that highlights the grid that informed the site design. The visitor will notice that the array also extends above the outdoor performance space. These panels, along with the excess power from the benches, fill a commercial-scale gel battery underneath the stage.

Ground lights turned on to indicate transmission

Stage Storage Overflow would be transmitted to the benches

STAGE

