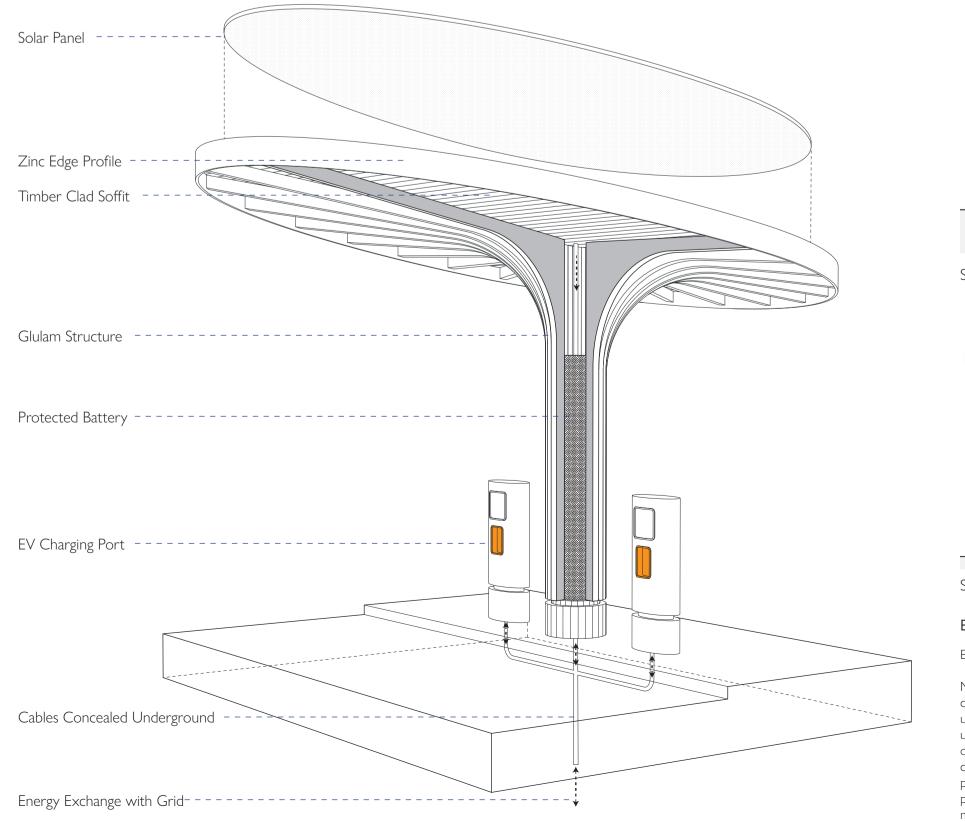
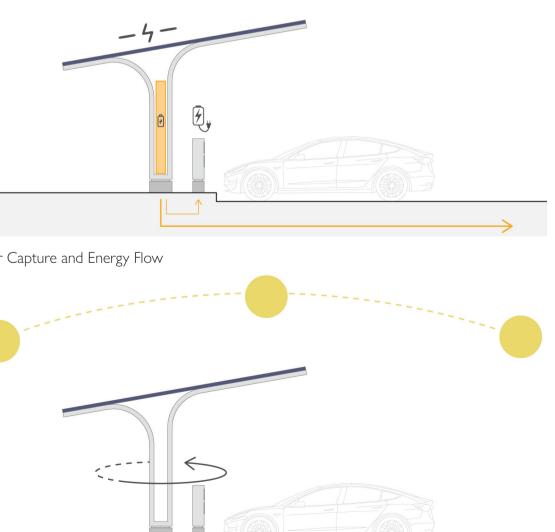
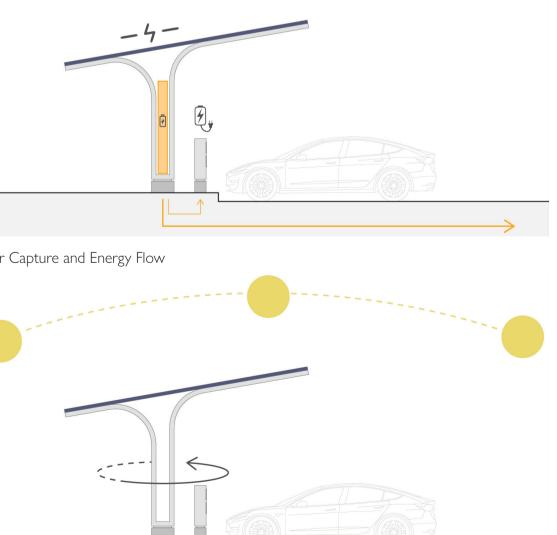
## MODULE 01







Solar Capture and Energy Flow



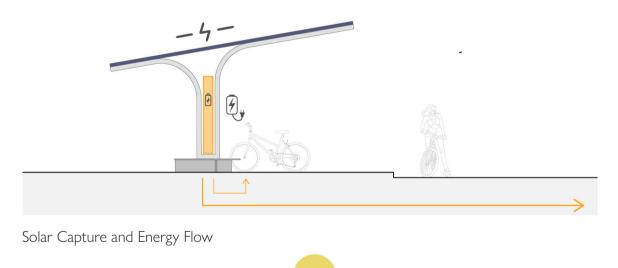
Site Specific Adjustable Solar Plane for Optimal Solar Capture

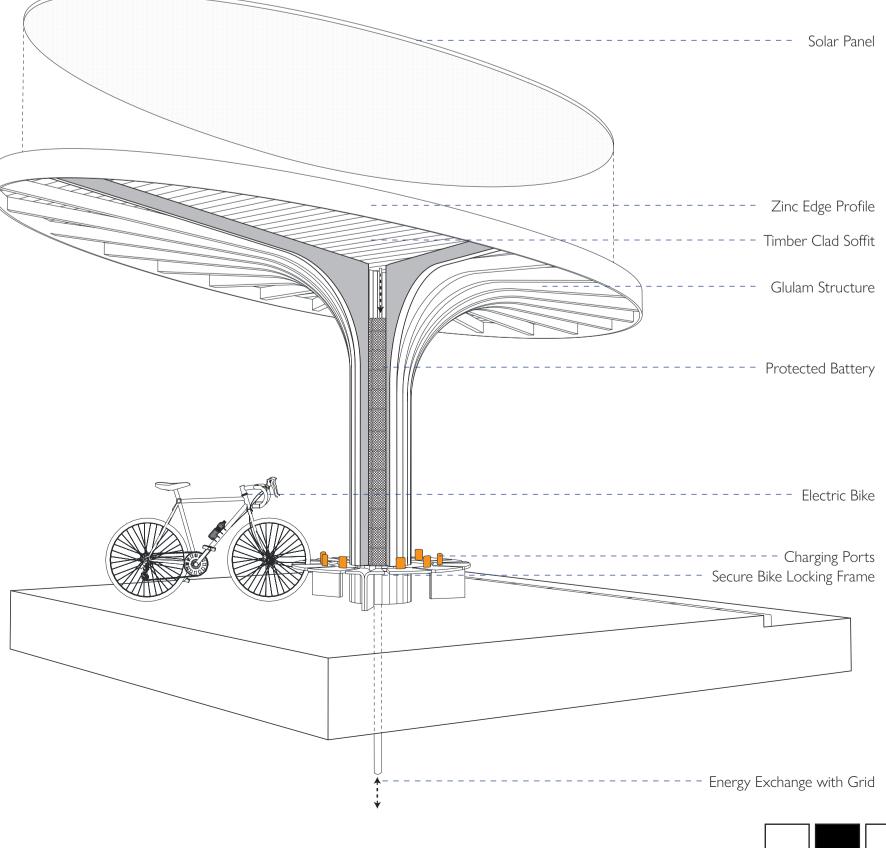
## Electric Vehicle (EV) Charging Module

Electric cars are gaining popularity throughout Europe.

Mannheim must embrace this shift to create a green Energy Production Per Hour = 16264.8 kWh urban realm is key to increasing their widespread Solar Panel Efficiency of 20% use and marries with the aspiration of a new model of distributed energy resources. The solar powered Energy Production Per Annum: car charging module incorporates a battery to store 7361.43 MWh power and is connected to the grid to exchange excess power and is connected to the grid to exchange excess produced energy or draw from the grid should the  $Sunlight on Site = 1075 kW/m^2$ module not produce enough electricity.







city. The ability to charge conveniently within the Energy Production Per Year = 36807 MWh

Solar Panel Area = 15.2 m<sup>2</sup>

Energy Production Calculation (Per Module)

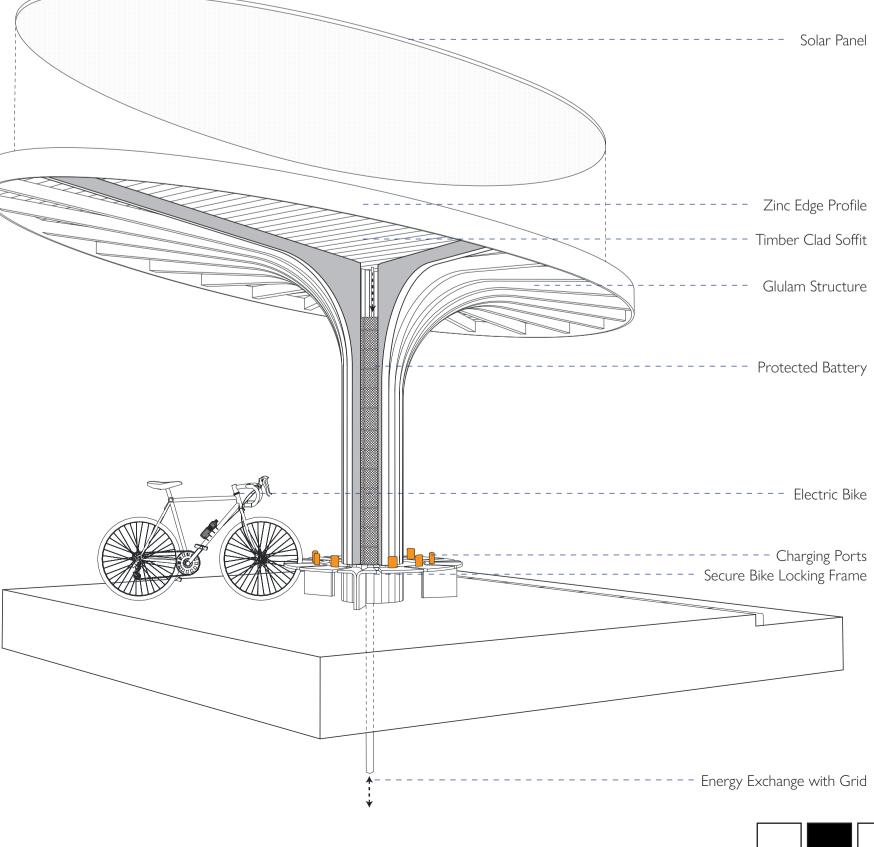
Daylight Sunlight Hours 2023 = 6.2

## Energy Production Calculation (Per Module)

city transportation for all generations and all fitness Solar Panel Area =  $15.2 \text{ m}^2$ Energy Production Per Hour = 16264.8 kWh Energy Production Per Year = 36807 MWh There are currently very limited or non-existent public | Solar Panel Efficiency of 20%

propose a solar powered electric bike charging station Energy Production Per Annum: which enables bikes to be charged whilst locked up. 7361.43 MWh

Daylight Sunlight Hours 2023 = 6.2



The module incorporates a battery to store power and is connected to the grid to exchange excess produced Sunlight on Site = 1075 kW/m2 energy or draw from the grid if necessary.

Electric Bikes provide an effective means of localised

charging facilities for electric bikes. We therefore

Electric Bike Charging Module

levels.

Site Specific Adjustable Solar Plane for Optimal Solar Capture

## MODULE 02