CURVING FORWARD

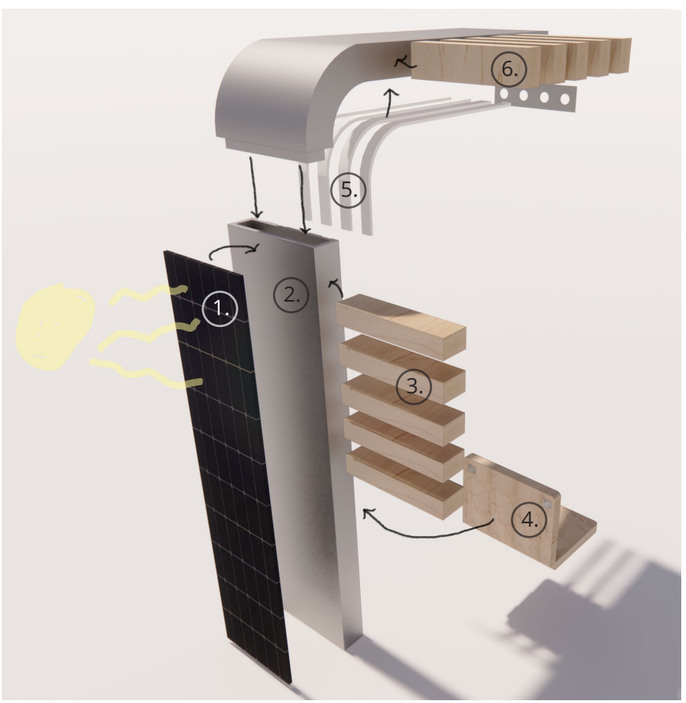
In a time when sustainability is essential, and aesthetics continue to be fundamental, Curving Forward provides both with a flexible lighting solution to existing bus stops.

Based on the concept of Formalism, the design of the fixture follows a simple arc that ends in a straight line on either side. The goal of the fixture is to provide a space that performs the basic function of a bus stop, while also encouraging occupants to celebrate sustainability in a new way.

The fixture can be placed in an existing bus stop to add interest, lighting, and form a community hub. The LED light panels within the fixture, provide a well-lit space as well as a way to contain the light that can trespass.

Through the simple and efficient design of Curving Forward, bus stops can encourage people to use public transportation like electric buses, and can be inspired to live a more sustainable lifestyle.

Fixture design can fit into any existing bus stop.



Component Details:

1. Solar Panel: The panel is located on the back side of the fixture in order to allow the maximum amount of sunlight to be absorbed. Whether placed on the back of the bus stop, or on the sides, the fixture can collect energy from the sun.

2. Fixture Frame: The frame is made from aluminum, providing a sturdy structure that mounts to the ground, and is easily maintained and cleaned.

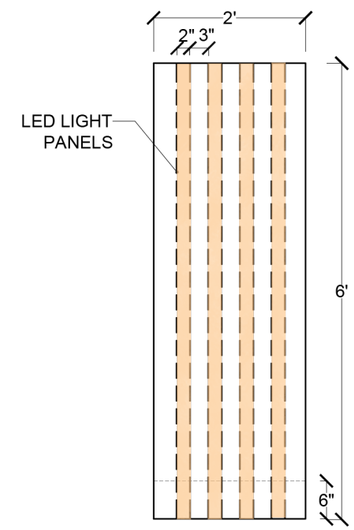
3. 6. Accessory pieces: Panels such as the ones shown can be attached to the side and top of the structure to expand the bus stop, or allow for the placement of foliage.

4. Foldable Seat: Made from waterproof and vandle proof material, the seat can be attached to the interior of the fixture, and folded up when not in use.

5. LED Light Panels: These panels follow the form of the fixture's structure, and are tucked inside of the aluminum piece. This reduces the amount of light trespass and limits vandalism, while providing a well-lit space for occupants. On the edge of the fixture, LED indicators with occupancy sensors, light up when a person is at the bus stop. This assists bus drivers in knowing when to stop at the station.

Flexibility of Curve Forward:

Due to the shape and size of the fixture, it can be placed in any existing bus shelter. The current shelter designed with the fixtures is 18' long x 10' high x 6' deep. However, this size can be adjusted by adding or removing the fixture, or attaching additional components to the fixtures themselves. The bus stop can then form a community hub as well, allowing for space to place advertisements, community news, or the transportation time tables. Flexible seating also gives options to occupants and creates an efficient bus stop.



Light Fixture - Plan

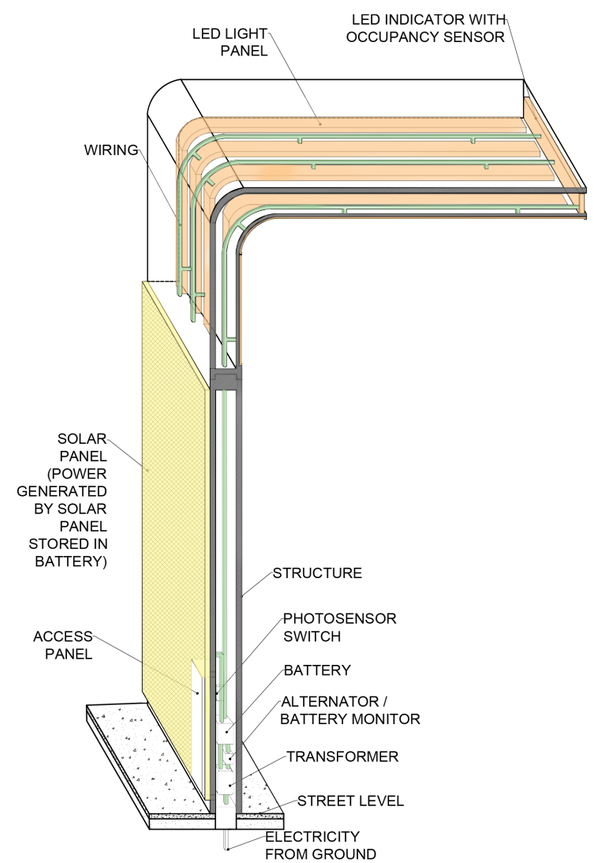
Detail Drawings:

Through the section (shown above) and the axonometric drawing (shown to the left), the interior of the fixture design can be seen. The fixture itself is mounted to the ground, allowing it to sit at street level for accessibility purposes. The electricity from the ground goes into the transformer which leads to the battery, and the alternator / battery monitor. The battery stores the power generated by the solar panel. When there is no longer energy from that source, the alternator / battery monitor, initiates the electricity from the ground. A photosensor switch turns on the LED light panels, without the need of someone turning the switch on.

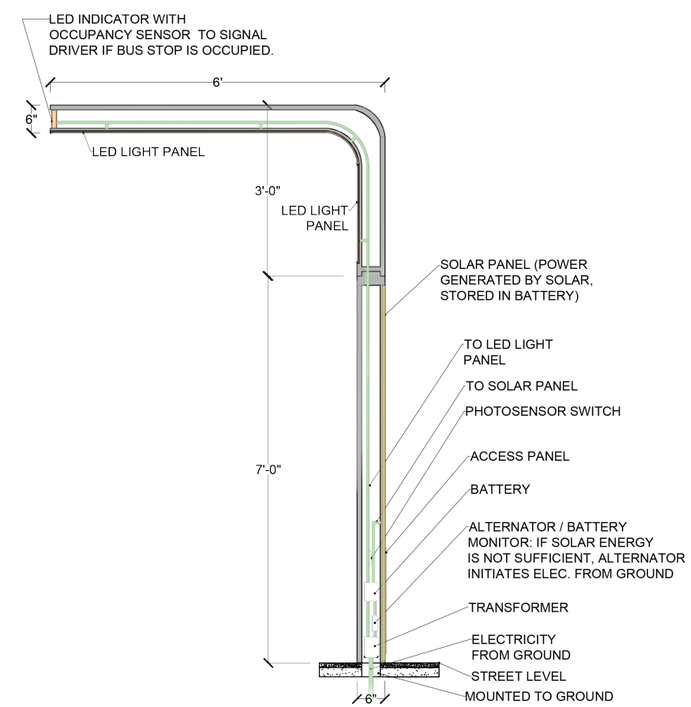
From the battery, the wiring leads up to LED light panels, and the LED indicator. An access panel is located on the back of the fixture to access each element.

Key:

- Light Panel
- Solar Panel
- Wiring
- Light Fixture Structure



Light Fixture - Axonometric



Light Fixture - Section

Fixture + Components - Front Perspective

Fixture + Vertical Wall Component

Fixture + Foldable Chair Component

Fixture + Components - Back Perspective

Thank you!