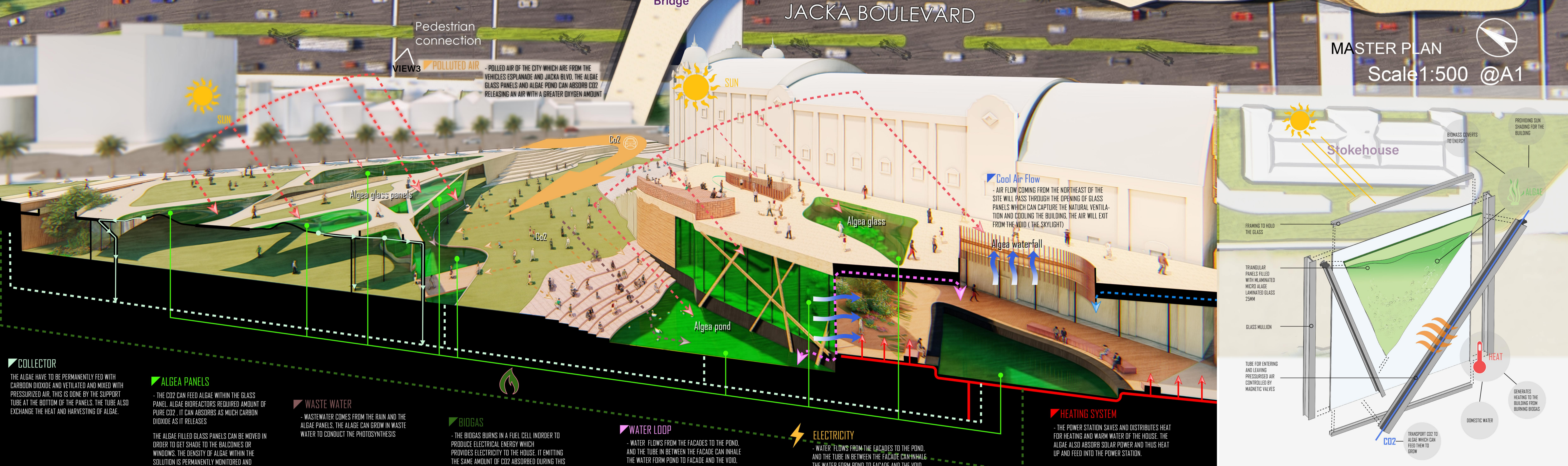




MASTER PLAN
Scale 1:500 @A1



COLLECTOR
THE ALGAE HAVE TO BE PERMANENTLY FED WITH CARBON DIOXIDE AND VENTILATED AND MIXED WITH PRESSURIZED AIR. THIS IS DONE BY THE SUPPORT TUBE AT THE BOTTOM OF THE PANELS. THE TUBE ALSO EXCHANGE THE HEAT AND HARVESTING OF ALGAE.

ALGAE PANELS
- THE CO₂ CAN FEED ALGAE WITHIN THE GLASS PANEL. ALGAE BIOREACTORS REQUIRED AMOUNT OF PURE CO₂. IT CAN ABSORB AS MUCH CARBON DIOXIDE AS IT RELEASES.

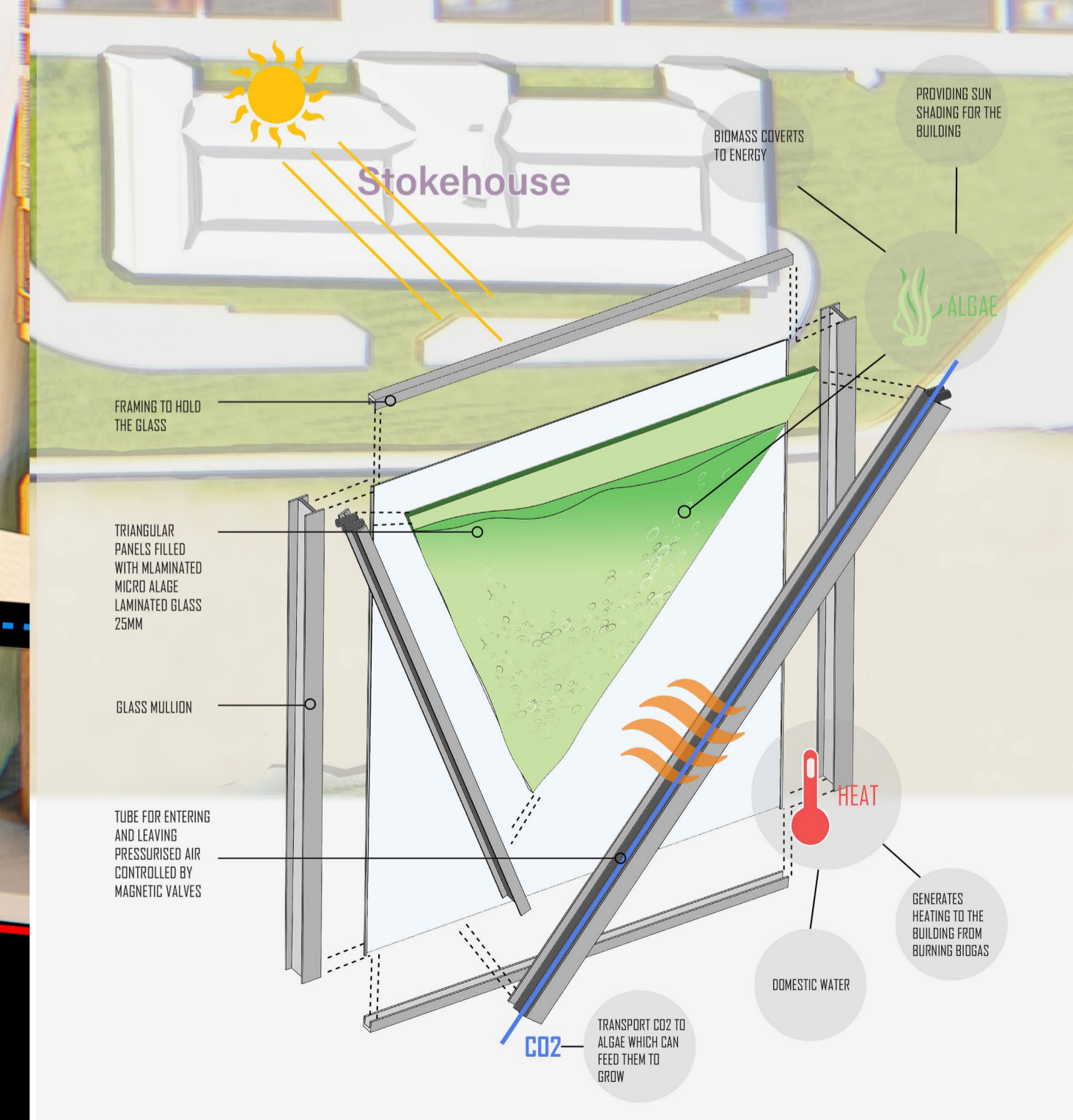
WASTE WATER
- WASTEWATER COMES FROM THE RAIN AND THE ALGAE PANELS. THE ALGAE CAN GROW IN WASTE WATER TO CONDUCT THE PHOTOSYNTHESIS.

BIODIGESTION
- THE BIODIGESTION BURNS IN A FUEL CELL IN ORDER TO PRODUCE ELECTRICAL ENERGY WHICH PROVIDES ELECTRICITY TO THE HOUSE. IT EMITTING THE SAME AMOUNT OF CO₂ ABSORBED DURING THIS PRODUCTION. THIS IS THE "BALANCE-ZERO" CLOSING THE GREEN LOOP.

WATER LOOP
- WATER FLOWS FROM THE FACADES TO THE POND, AND THE TUBE IN BETWEEN THE FACADE CAN INHALE THE WATER FROM POND TO FACADE AND THE VOID, WHICH MAKE THE WATERFALL SCENERY IN THE SKYLIGHT (VOID), AND THIS PROCESS WILL REPEAT INFINITELY.

ELECTRICITY
- WATER FLOWS FROM THE FACADES TO THE POND, AND THE TUBE IN BETWEEN THE FACADE CAN INHALE THE WATER FROM POND TO FACADE AND THE VOID, WHICH MAKE THE WATERFALL SCENERY IN THE SKYLIGHT (VOID), AND THIS PROCESS WILL REPEAT INFINITELY.

HEATING SYSTEM
- THE POWER STATION SAVES AND DISTRIBUTES HEAT FOR HEATING AND WARM WATER OF THE HOUSE. THE ALGAE ALSO ABSORB SOLAR POWER AND THUS HEAT UP AND FEED INTO THE POWER STATION.



PHOTOSYNTHESIS DIAGRAM

MUSEUM ENTRY FACADE DETAILS
FACADE WITH ALGAE BIOREACTORS