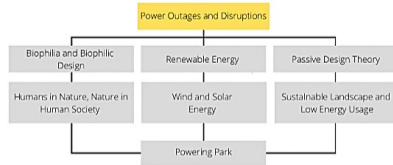


ABSTRACT

OVER THE YEARS, RENEWABLE ENERGY HAS BECOME MORE WIDESPREAD AND INCORPORATED IN THE ENERGY SYSTEM. IT IS AN ESSENTIAL PART OF THE SOLUTION TO CLIMATE CHANGE AND A SUSTAINABLE ALTERNATIVE TO FOSSIL FUELS. THE CITY OF MASBATE, WHICH MAINLY RELIES ON FOSSIL FUELS FREQUENTLY EXPERIENCES DISRUPTIONS AND POWER OUTAGES. IN THIS STUDY, THE RESEARCHER PROPOSED A MULTIFUNCTIONAL PUBLIC GREEN SPACE DESIGNED TO BE A RENEWABLE ENERGY FARM AND AN OUTDOOR PARK FACILITY FOR THE RESIDENTS OF MASBATE. THE PARK WILL BE USED AS AN ALTERNATIVE, TO CREATE A BETTER, LOW-COST AND SUSTAINABLE SOURCE. THIS WILL PROVIDE THE RESIDENTS WITH A BETTER, MORE RELIABLE ENERGY SOURCE THAT IS ENVIRONMENT-FRIENDLY AND WILL LAST A LIFETIME DUE TO THEIR CONTINUOUS REPLENISHMENT. AS A RESULT, NOT ONLY WILL IT BENEFIT THE ENVIRONMENT, BUT ALSO, IMPROVE THE WORK AND LIFE ACTIVITY OF THE RESIDENTS.

THEORETICAL FRAMEWORK



RESEARCH DESIGN

PRE-DESIGN PHASE: FORMULATING THE PROBLEM AND/OR CHALLENGES, PROVIDE THE PROBLEM SETTING, AND BEGIN WITH THE INITIAL SITE ANALYSIS AND INVENTORY.

DESIGN PHASE: START THE SITE DESIGNING AND RESEARCH. THIS WILL BE THE PART WHERE ALL OF THE DATA AND INFORMATION WILL BE GATHERED, SUMMARIZED AND BE INCORPORATED INTO THE DESIGN PROCESS.

POST-DESIGN PHASE: ALL OF THE ACQUIRED INFORMATION AND FACTS WILL BE DISTILLED INTO A SINGLE LANDSCAPE SOLUTION IN ORDER TO DEMONSTRATE HOW THE DESIGN WILL LOOK AND FUNCTION.

SITE BACKGROUND AND SITE ANALYSIS

THE CITY OF MASBATE HAD A TOTAL POPULATION OF 85,227 PEOPLE IN 2010. IT IS A GRADUALLY GROWING URBAN METROPOLIS WITH CONTINUOUS DEVELOPMENT OF NEW INFRASTRUCTURES AND TECHNOLOGY; HOWEVER, THERE IS A SIGNIFICANT LACK OF PUBLIC GREEN SPACES, AND THE CITY IS GRADUALLY BECOMING A GRAY CITY FILLED WITH BUILDINGS, CONCRETE, AND HEAT.

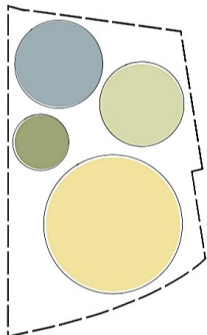
THE SITE IS 6.55 HECTARES (65,524 SQUARE METERS) IN SIZE AND IS LOCATED IN THE ISLAND PROVINCE OF MASBATE, BICOL REGION, PHILIPPINES. THE SITE IS LOCATED IN THE CITY'S NORTHEAST, NESTLED BETWEEN NEIGHBORING RESIDENTIAL PROPERTIES, AND IS ACCESSIBLE VIA THREE ROADS THAT SURROUND IT.



BUBBLE DIAGRAM AND FUNCTIONAL DIAGRAM

SPACES

- WELCOME
- PLAY
- LIFE
- ENERGY

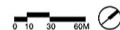
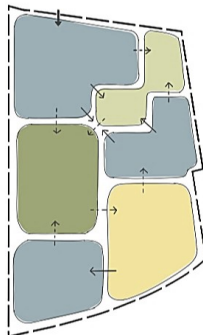


SPACES

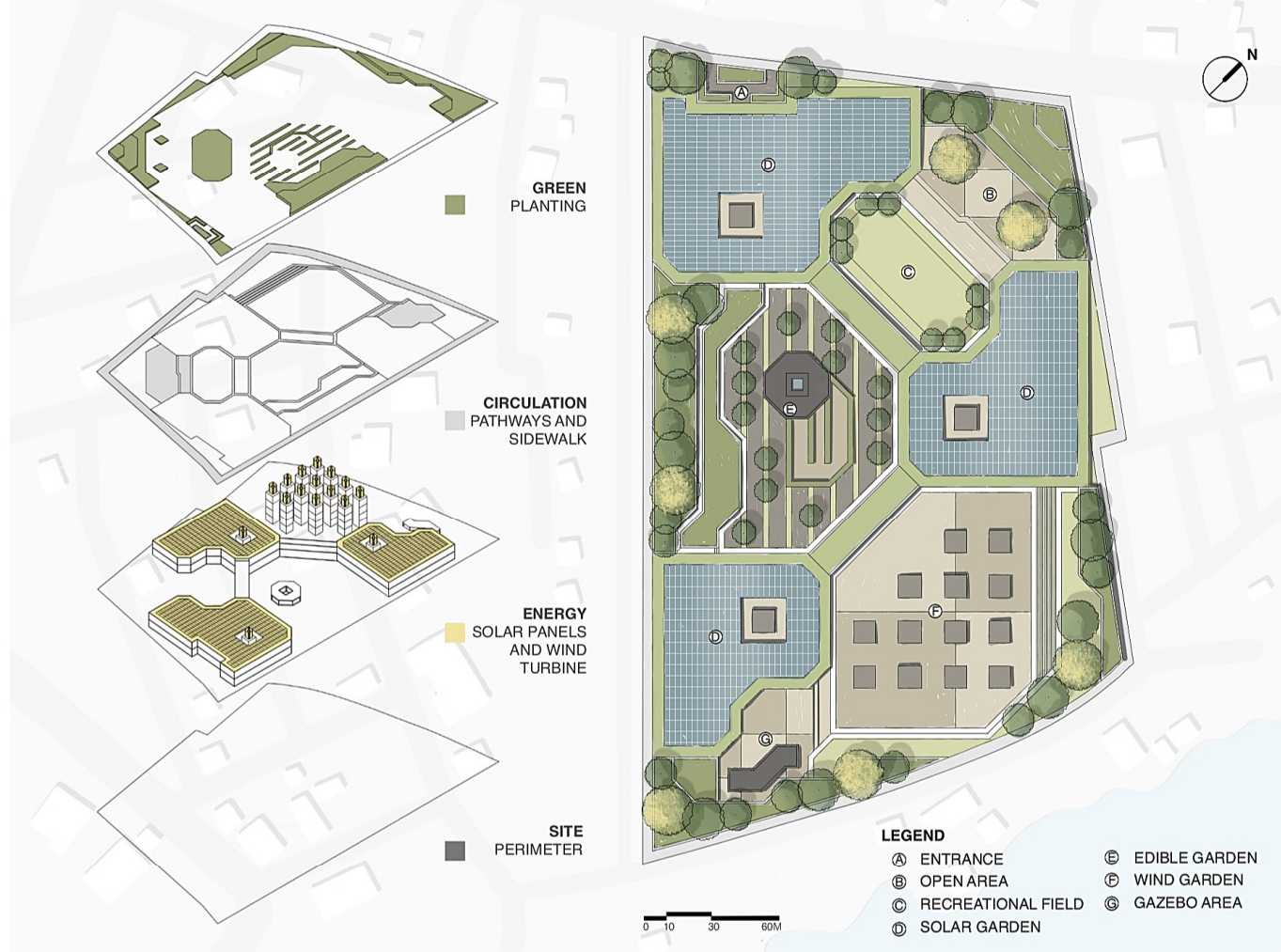
- SOLAR GARDEN
- OPEN AREA
- EDIBLE GARDEN
- WIND GARDEN

SPACES

- ENTRANCE
- DIRECT CONNECTION
- INDIRECT CONNECTION
- BOUNDARY



SITE DEVELOPMENT PLAN

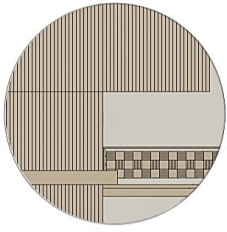


DESIGN CONCEPT

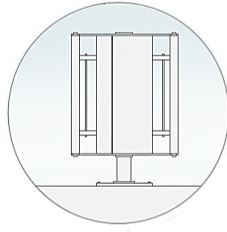
THE DESIGN CONCEPT FOR THE PROPOSED PROJECT IS DYNAMIC LANDSCAPE. THE CONCEPT WAS CHOSEN IN ORDER TO ADDRESS THE SITE PROBLEM OF FREQUENT DISRUPTIONS AND POWER OUTAGES. DYNAMISM CAN BE DESCRIBED AS SOMETHING OR SOMEONE THAT IS FULL OF ENERGY OR FULL OF NEW AND EXCITING IDEAS. IN THIS CASE, TECHNOLOGY PLAYS A KEY ROLE IN THE DESIGN SOLUTION, SPECIFICALLY, ENERGY TECHNOLOGY THAT HARVEST RENEWABLE SOURCES SUCH AS THE SUN AND WIND.

DESIGN PHILOSOPHY

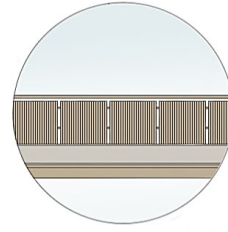
"WE BORROW UPON NATURE THE SPACE UPON WHICH WE BUILD" - TADAO ANDO



SOLAR GARDEN BALCONY

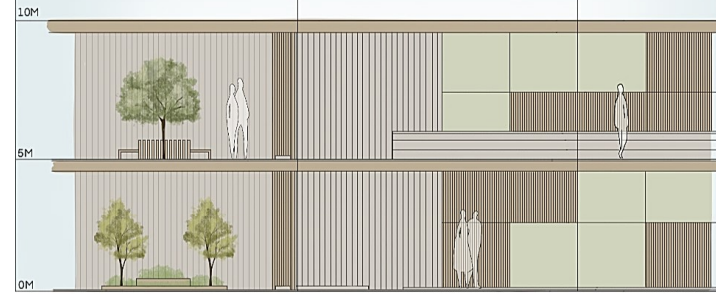


V-AXIS WIND TURBINE

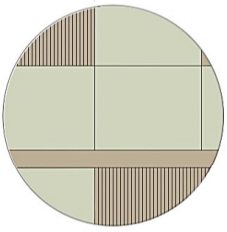
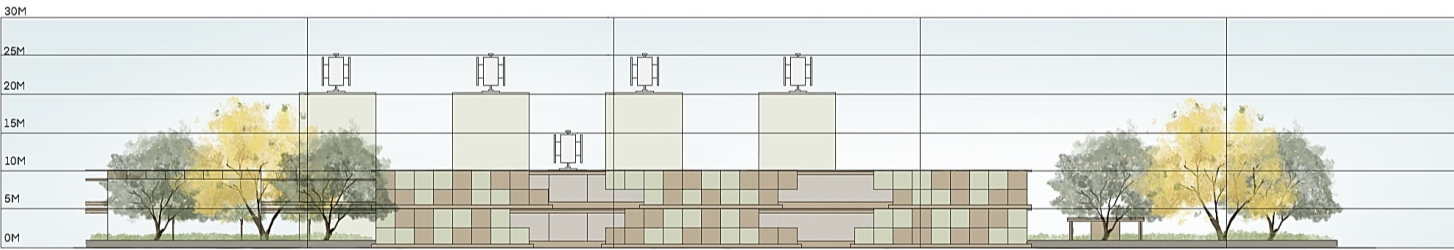


SOLAR GARDEN BRIDGE

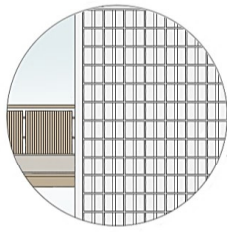
SOLAR GARDEN



GAZEBO AND SEATING AREA



SOLAR GARDEN GREEN WALL

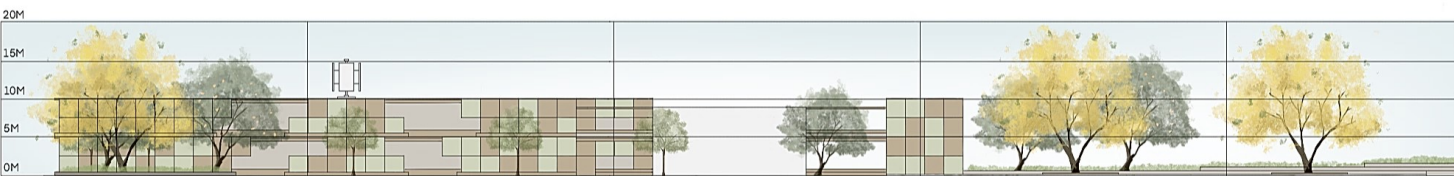
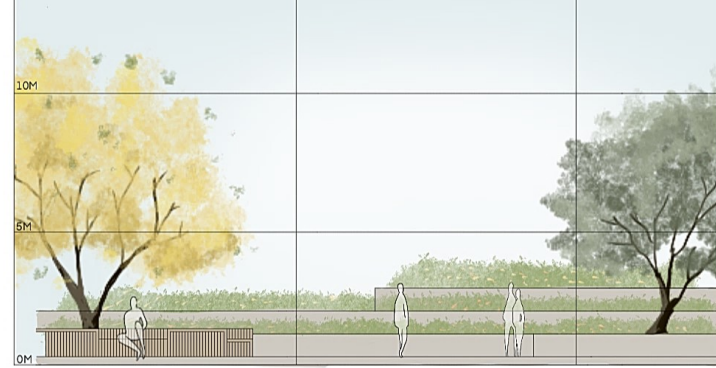


BRIDGE AND WIND WALL



BENCH AND PLANTING

OPEN AREA



SECTION-ELEVATIONS

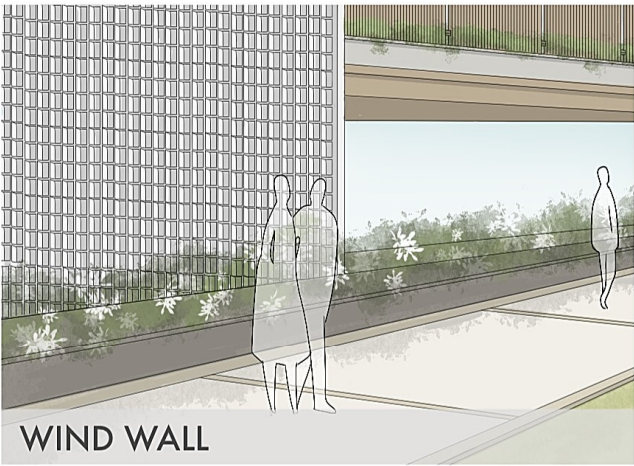


GENERAL SECTION-ELEVATIONS





AERIAL PERSPECTIVE



WIND WALL



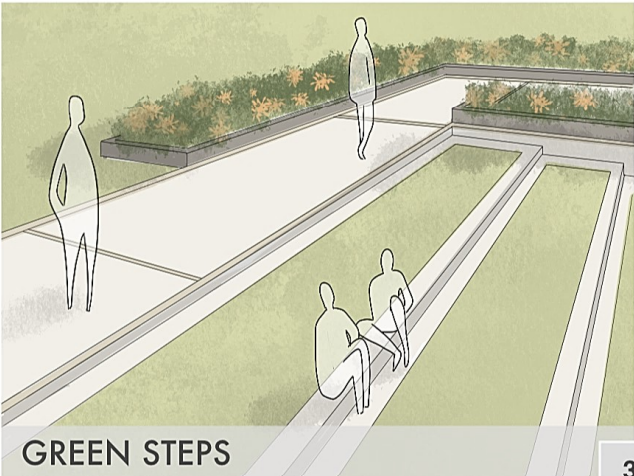
GAZEBO AREA



SOLAR GARDEN



EDIBLE GARDEN WALKWAY



GREEN STEPS