SAN JUAN 2030

FROM ENERGY EFFICIENCY TO ENERGY TRANSITION: BUILDING A MORE SUSTAINABLE, RESILIENT, AND LIVABLE CITY

PRESENTATION TO THE LIVEABLE CITIES LAB "ENERGY: TRANSITION TO RENEWABLES

ASIAN INSTITUTE OF MANAGEMENT
10 JUNE 2026 | 2:00 PM

BRIAN M. GELI

CITY TOURISM OFFICER
CITY GOVERNMENT OF SAN JUAN

SAN JUAN 2030

FROM ENERGY EFFICIENCY TO ENERGY TRANSITION

BUILDING A MORE SUSTAINABLE, RESILIENT, AND LIVABLE CITY

WHY ENERGY TRANSITION?

1. ENERGY SECURITY
2. ENERGY AFFORDABILITY
3. ENVIRONMENTAL SUSTAINABILITY
4. CLIMATE RESILIENCE

For a highly urbanized city with only 5.94 square kilometers of land area, San Juan must maximize efficiency while minimizing environmental impact.

LEGAL BASIS FOR SAN JUAN'S ENERGY TRANSITION

REPUBLIC ACT NO. 9513

Renewable Energy Act of 2008

"It is hereby declared the policy of the State to accelerate the exploration and development of renewable energy resources…"

REPUBLIC ACT NO. 11285

Energy Efficiency and Conservation Act

Promotes the "efficient and judicious utilization of energy" and increased use of renewable energy technologies

REPUBLIC ACT NO. 7160

Local Government Code

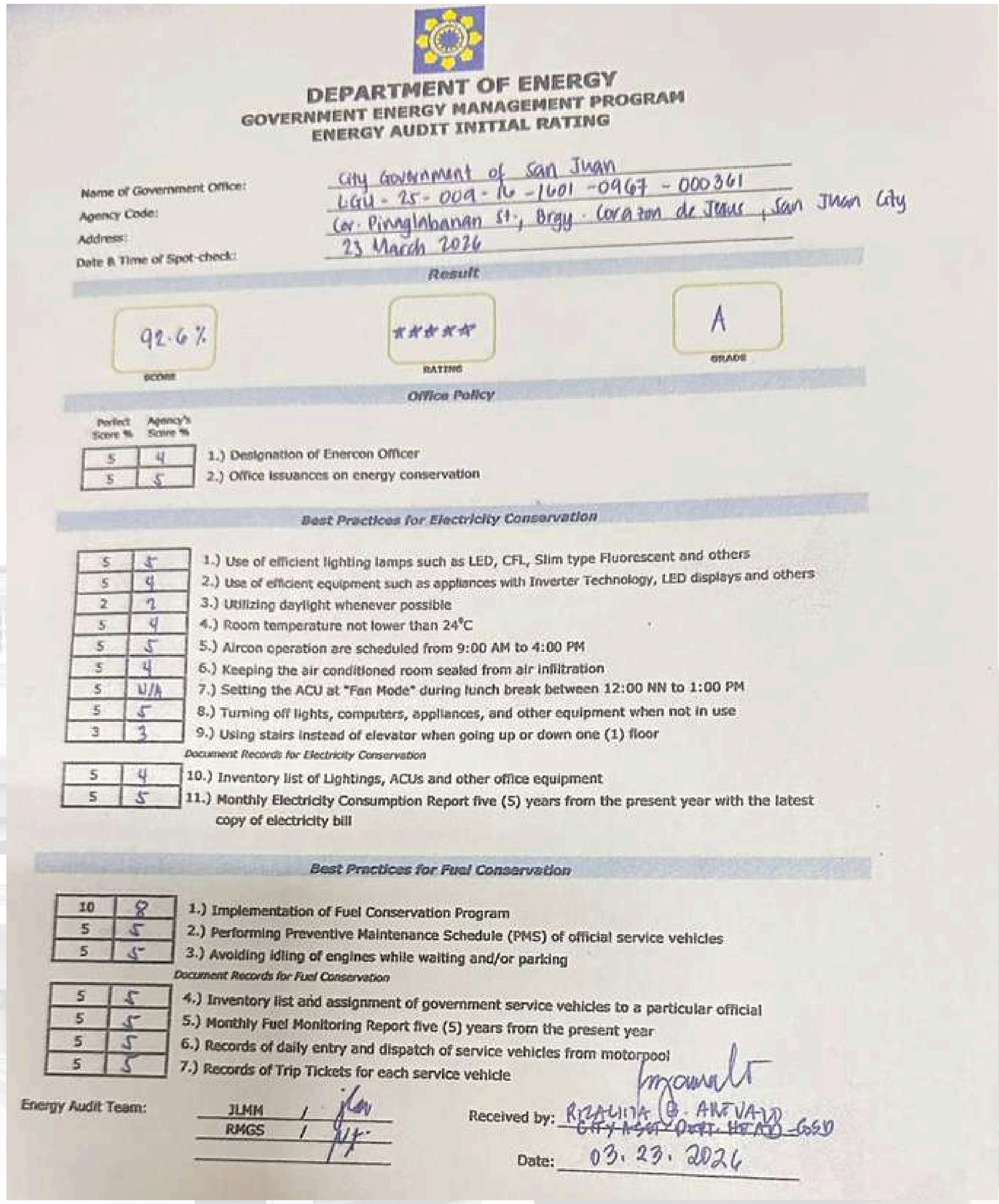
Section 16 empowers LGUs to promote the general welfare and enhance the people's right to a balanced ecology.

ENERGY EFFICIENCY FIRST

REDUCING ENERGY CONSUMPTION

DOE ENERGY AUDIT RATING

92.6% RATING



DEPARTMENT OF ENERGY
GOVERNMENT ENERGY MANAGEMENT PROGRAM
ENERGY AUDIT INITIAL RATING

Name of Government Office: City Government of San Juan
Agency Code: LGU - 25 - 009 - 16 - 1601 - 0967 - 000361
Address: Cor. Pinaglabanan St., Brgy. Corazon de Jesus, San Juan City
Date & Time of Spot-check: 23 March 2026

Result

SCORE	RATING	GRADE
92.6%	*****	A

Office Policy

Perfect Score %	Agency's Score %	
5	4	1.) Designation of Enercon Officer
5	5	2.) Office issuances on energy conservation

Best Practices for Electricity Conservation

Perfect Score %	Agency's Score %	
5	5	1.) Use of efficient lighting lamps such as LED, CFL, Slim type Fluorescent and others
5	4	2.) Use of efficient equipment such as appliances with Inverter Technology, LED displays and others
2	2	3.) Utilizing daylight whenever possible
5	4	4.) Room temperature not lower than 24°C
5	5	5.) Aircon operation are scheduled from 9:00 AM to 4:00 PM
5	4	6.) Keeping the air conditioned room sealed from air infiltration
5	N/A	7.) Setting the ACU at "Fan Mode" during lunch break between 12:00 NN to 1:00 PM
5	5	8.) Turning off lights, computers, appliances, and other equipment when not in use
3	3	9.) Using stairs instead of elevator when going up or down one (1) floor

Document Records for Electricity Conservation

Perfect Score %	Agency's Score %	
5	4	10.) Inventory list of Lightings, ACUs and other office equipment
5	5	11.) Monthly Electricity Consumption Report five (5) years from the present year with the latest copy of electricity bill

Best Practices for Fuel Conservation

Perfect Score %	Agency's Score %	
10	8	1.) Implementation of Fuel Conservation Program
5	5	2.) Performing Preventive Maintenance Schedule (PMS) of official service vehicles
5	5	3.) Avoiding idling of engines while waiting and/or parking

Document Records for Fuel Conservation

Perfect Score %	Agency's Score %	
5	5	4.) Inventory list and assignment of government service vehicles to a particular official
5	5	5.) Monthly Fuel Monitoring Report five (5) years from the present year
5	5	6.) Records of daily entry and dispatch of service vehicles from motorpool
5	5	7.) Records of Trip Tickets for each service vehicle

Energy Audit Team: JLMM / RMGS /

Received by: Rizalina G. Arevalo, City Asst. Dept. Head - GSD

Date: 03. 23. 2026

DOE certificate

San Juan City, Philippines | @sanjuancityncr | sanjuancity.gov.ph

THE FOUR-DAY WORK WEEK MODEL

IMPLEMENTED:

4 DAYS ONSITE
1 DAY WORK-FROM-HOME

OBJECTIVES:

1. REDUCE ELECTRICITY CONSUMPTION
2. REDUCE FUEL CONSUMPTION
3. IMPROVE OPERATIONAL EFFICIENCY

THE FOUR-DAY WORK WEEK MODEL

ACTUAL ELECTRICITY SAVINGS

20.7%

"THE CLEANEST ENERGY IS THE ENERGY WE DO NOT CONSUME."

SAN JUAN'S RENEWABLE ENERGY STRATEGY

WHY NOT MASSIVE SOLAR DEPLOYMENT?

CHALLENGES:

1. LIMITED ROOFTOP AREA
2. HIGH MAINTENANCE COSTS
3. EXPOSURE TO TYPHOONS AND EXTREME WEATHER
4. HIGHER LIFECYCLE REPLACEMENT COSTS

SAN JUAN'S RENEWABLE ENERGY STRATEGY

PREFERRED STRATEGY

PURCHASE RENEWABLE ENERGY THROUGH THE EXISTING GRID

RENEWABLE SOURCE → NGCP → MERALCO DISTRIBUTION SYSTEM → SAN JUAN GOVERNMENT FACILITIES

SHIFTING TO GREEN POWER

CURRENT STATUS:

- ✔ INITIAL ASSESSMENTS COMPLETED
- ✔ PPP ROUTE BEING PURSUED
- ✔ UNSOLICITED PROPOSAL ALREADY RECEIVED

GOAL:

TRANSITION CITY GOVERNMENT FACILITIES TO ELECTRICITY SOURCED FROM RENEWABLE ENERGY PROVIDERS WHILE CONTINUING TO UTILIZE EXISTING DISTRIBUTION INFRASTRUCTURE.

SUSTAINABLE TRANSPORTATION

Mayor Francis Zamora's directive:

ALL FUTURE CITY GOVERNMENT VEHICLE PURCHASES SHALL BE

HYBRID **OR** **FULLY ELECTRIC**

OBJECTIVE: **GRADUALLY DECARBONIZE THE CITY'S VEHICLE FLEET**

SUSTAINABLE TRANSPORTATION

NEWLY ACQUIRED EVS

THE E-TRICYCLE TRANSITION PROGRAM

SAN JUAN E-TRIKE TOURISM AND SUSTAINABLE MOBILITY ORDINANCE OF 2026

PROPOSED ORDINANCE:

INCENTIVIZE TRANSITION FROM GASOLINE-POWERED TRICYCLES TO ELECTRIC TRICYCLES

THE E-TRICYCLE TRANSITION PROGRAM

BENEFITS:

- INCENTIVES FOR EARLY ADOPTERS
- OFFICIAL TOUR GUIDE KITS
- TOURISM ACCREDITATION
- PRIORITY PARTICIPATION IN CITY TOURISM PROGRAMS
- TOUR GUIDE TRAINING

OUTCOME:

CLEANER TRANSPORTATION AND LIVELIHOOD GENERATION

TOURISM AS A DRIVER OF SUSTAINABILITY

SAN JUAN TOURISM CODE INTEGRATES SUSTAINABLE TOURISM PRINCIPLES

THE CODE PROMOTES

- Environmental sustainability
- Reduction of waste generation
- Responsible resource use
- Renewable energy use in tourism activities
- Eco-friendly transportation options

The Tourism Code specifically encourages renewable energy use and sustainable transportation initiatives.

GREEN TOURISM INITIATIVES

CURRENT PROJECTS:

1. DIY BIKE TRAILS
2. FOUR (4) NEWLY PROCURED EV TOUR VEHICLES
3. PROCUREMENT OF ELECTRIC TOURIST BUS
4. FUTURE HOP-ON HOP-OFF EV TOURS

TOURISM BECOMES BOTH AN ECONOMIC AND ENVIRONMENTAL STRATEGY

GREEN GREEN GREEN

STATUS: CLOSE TO COMPLETION

FUNDED THROUGH: DBM GREEN GREEN GREEN PROGRAM

GREEN GREEN GREEN

PROJECT COMPONENTS:

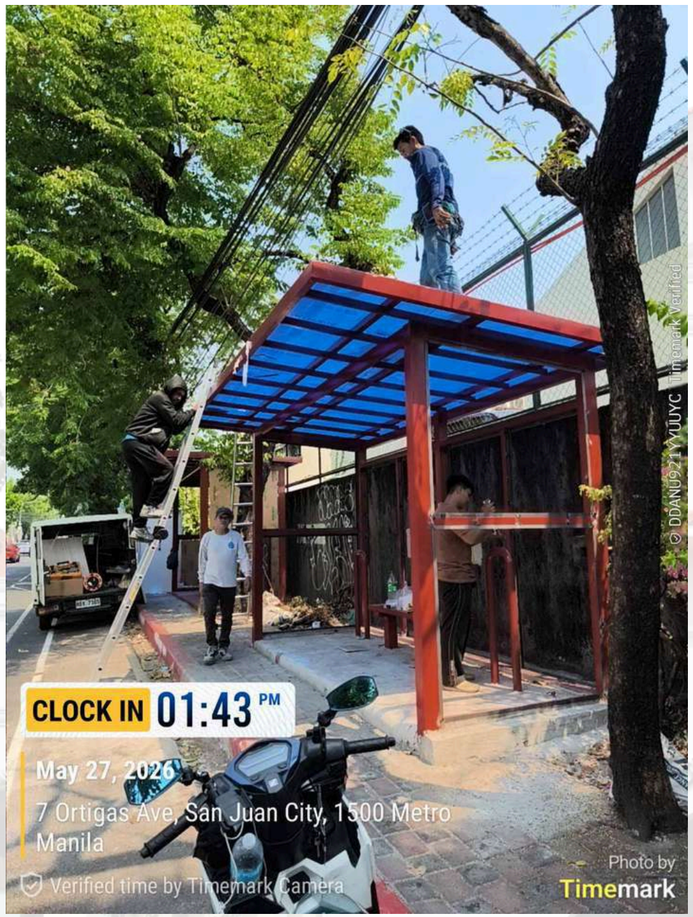
1. SOLAR-POWERED WAITING SHEDS
2. BIRD WATCHING PLATFORM
3. LINEAR PARK

APPROXIMATE PROJECT COST:

₱40 MILLION

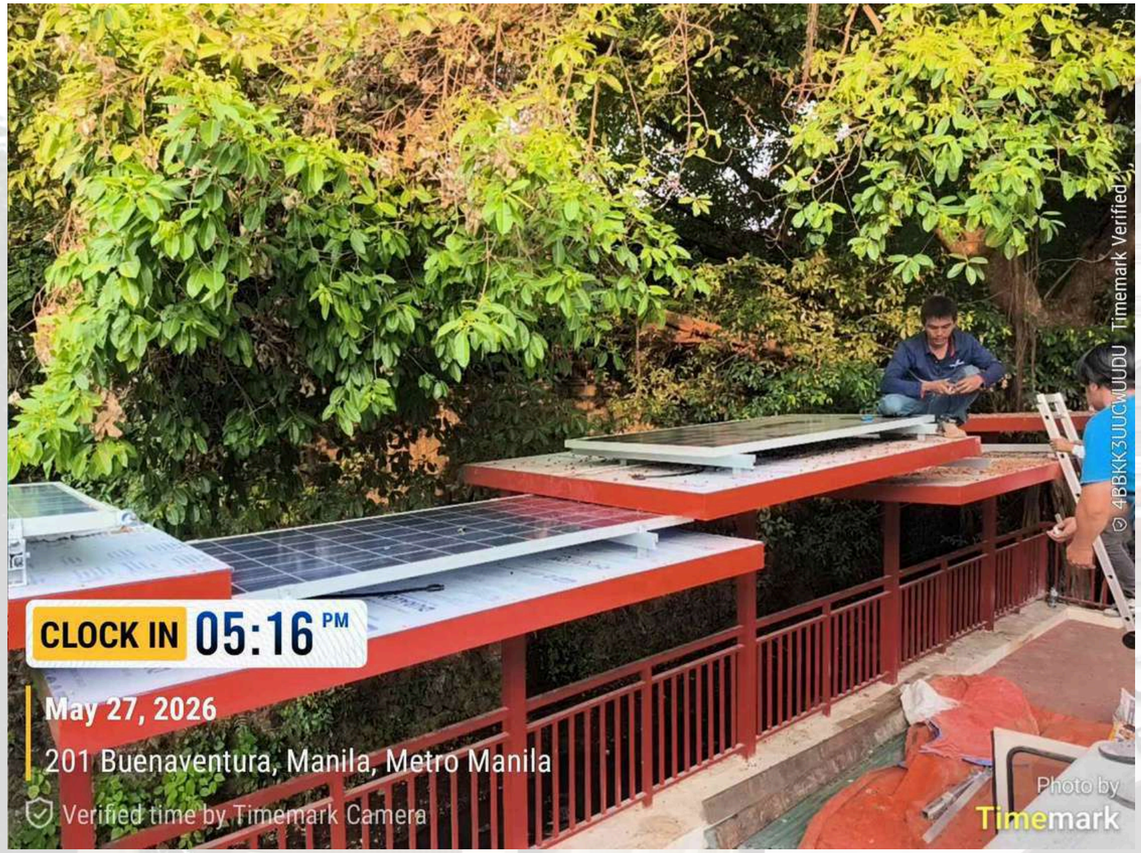
GREEN INFRASTRUCTURE PROJECTS

SOLAR-POWERED WAITING SHEDS



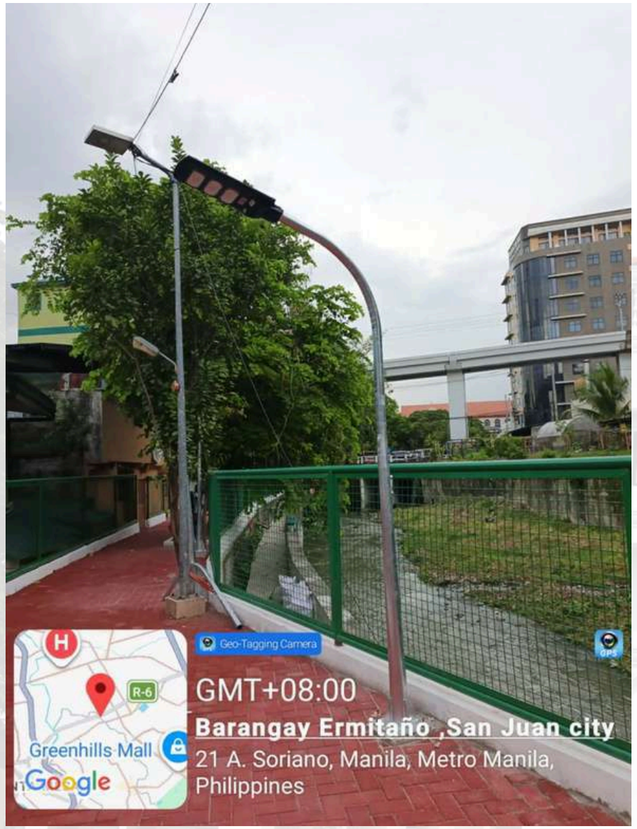
GREEN INFRASTRUCTURE PROJECTS

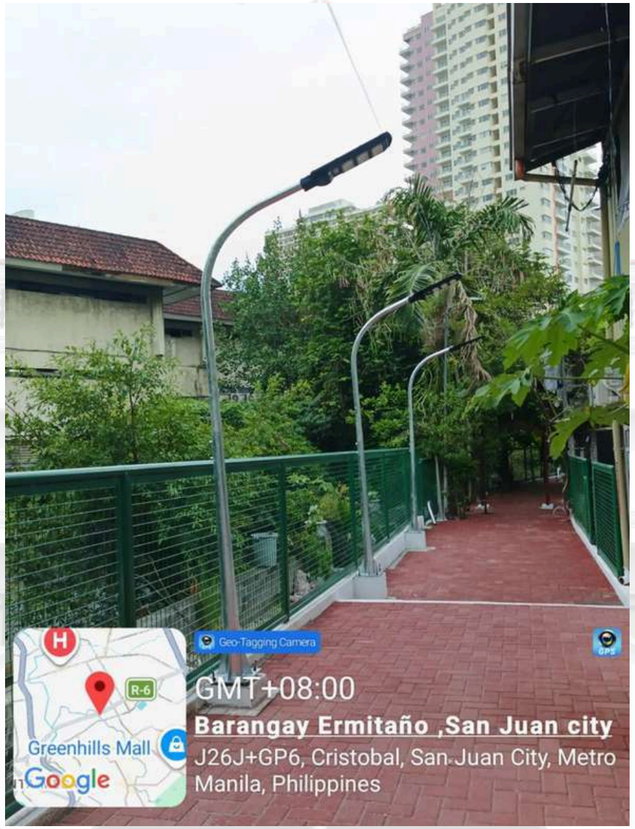
BIRD WATCHING PLATFORM

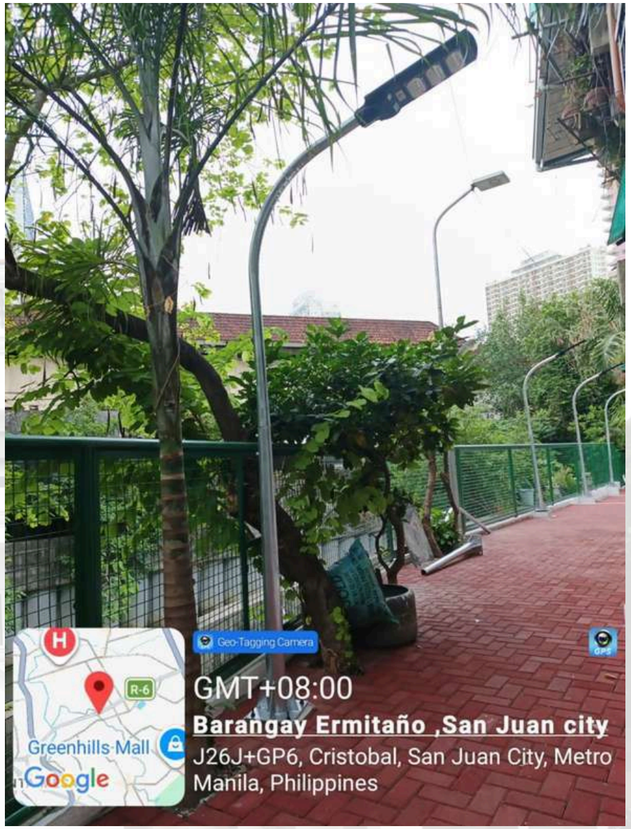


GREEN INFRASTRUCTURE PROJECTS

BARANGAY ERMITAÑO LINEAR PARK







GREEN INFRASTRUCTURE PROJECTS

BARANGAY BATIS LINEAR PARK

FEATURES:

- Fruit-bearing trees
- Vegetable gardens
- Urban greening
- Underground Rainwater Cistern

GREEN INFRASTRUCTURE PROJECTS

ACTUAL STORAGE CAPACITY:

500CBM STORAGE CAPACITY

OBJECTIVE:

Transform flood-prone and underutilized spaces into productive green infrastructure.

RAINWATER HARVESTING

THE SAN JUAN TOURISM CODE PROMOTES WATER CONSERVATION AND ENCOURAGES TOURISM-RELATED ESTABLISHMENTS TO ESTABLISH RAINWATER CATCHMENT SYSTEMS.

RAINWATER HARVESTING

SUPPORTING PROGRAMS:

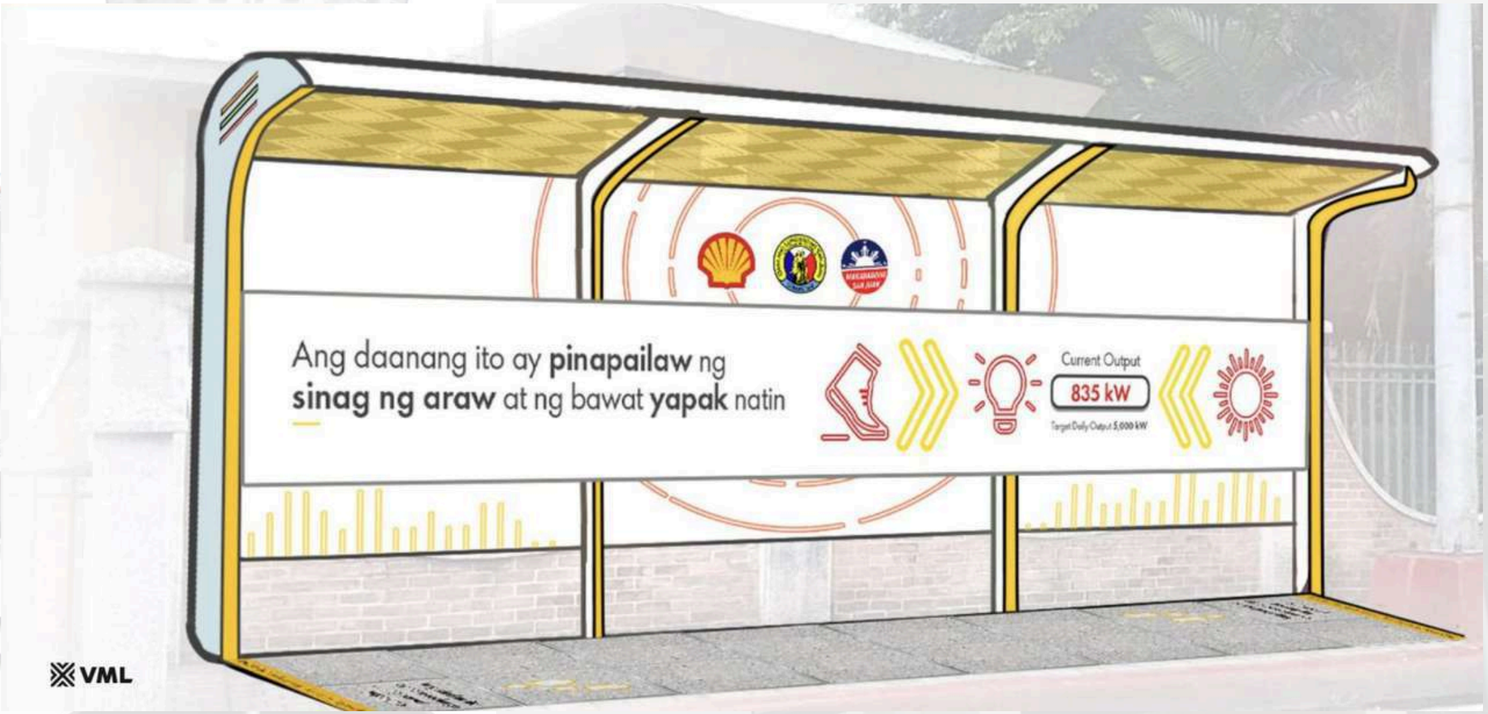
- Rainwater Catchment Contest
- CENRO-led awareness campaigns
- Sustainable Tourism Initiatives

ENERGY TRANSITION AND WATER SUSTAINABILITY GO HAND-IN-HAND

PARTNERSHIP WITH PRIVATE SECTOR

PAGSULONG SHED

SOLAR & KINETIC POWERED



THE SAN JUAN MODEL

ENERGY EFFICIENCY + RENEWABLE ENERGY + GREEN INFRASTRUCTURE + SUSTAINABLE TOURISM

= A MORE LIVABLE SAN JUAN

"OUR GOAL IS NOT MERELY TO CONSUME RENEWABLE ENERGY. OUR GOAL IS TO BUILD A CITY WHERE SUSTAINABILITY IS EMBEDDED IN OUR PSYCHE — HOW WE WORK, TRAVEL, BUILD, AND LIVE."

-MAYOR FRANCIS ZAMORA