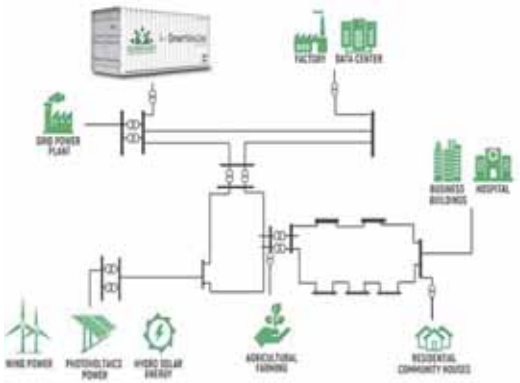


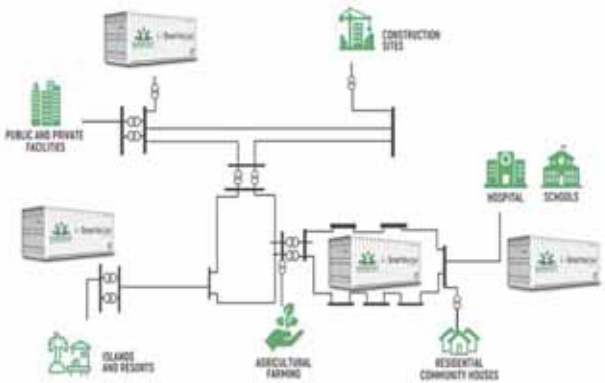
SUNSMART
SOLAR POWER TECHNOLOGY INC.

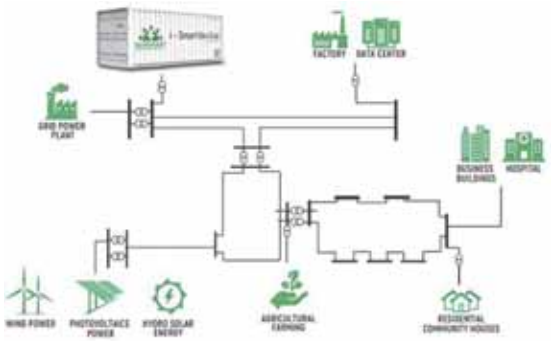
SUNSMARTWORLD

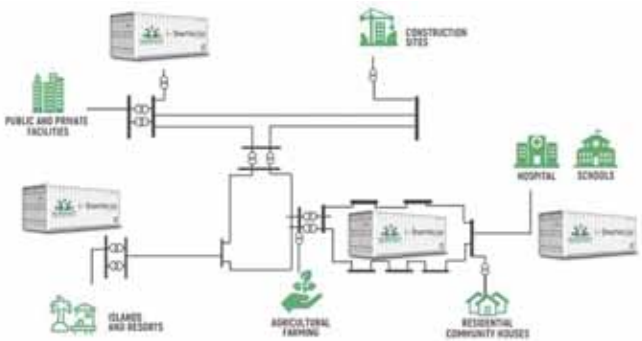
BAGONG PILIPINAS

The S.U.N. in the Philippines
Smart Utility Networks









Green Venture Program

PHILIPPINES | 02-12052024

The S.U.N. in the PHILIPPINES

Green Power Investment Venture Program

SUNSMARTWORLD

Mother BOT EPCC Investment

SUNSMART
SOLAR POWER TECHNOLOGY INC.

Technology Provider , Investment Program Implementor, Project Management
ASSEMBLY PLANT, Local BOT EPCC , TRAINING, TOT

NICHE INNOVATION

INTEGRATED. HOLISTIC. SUSTAINABLE TECH VALUE CHAIN OF SMART ENERGY ECOSYSTEMS

VISION

To create, develop and build Circular Energy Development with an independent smart green network to fast-track Net Zero Goals.

MISSION

ELEMENTS: Elevating Livelihood, Empowering Mankind, Engaging Nature Towards Sustainability

TARGET AREAS

AREAS OR FACILITIES RUN MY DIESEL / GAS GENSET, ECOZONES, PRIVATE/PUBLIC OWN DEVELOPMENTS, ISLANDS, LAST MILE, GIDAS, INTERMITTENT, ZERO TRANSMISSION, FULLY OFF GRID AREAS

COMPETITORS

FOSSIL FUELS, CARBON EMITTING GENERATORS

COMPETITIVE ADVANTAGE

1. *POWER COST REDUCTION. CONVERT UTILITY BILL EXPENSE TO GREEN INVESTMENTS, SAVINGS AND ENVIRONMENTAL INCENTIVES*
2. *PROVIDES BUSINESS PARTNERSHIP ON SMART GREEN UTILITIES*
3. *CAPITAL INVESTMENT ON BRAND NEW GREEN POWER GENERATION FACILITIES AND SMART GRID NETWORK*
4. *LONG TERM FIX, NON-INCREASING POWER GENERATION RATE*
5. *PUTTING UP OF GREEN TECH UTILITIES & SOLUTIONS FACTORY ASSEMBLY PLANT, ENGINEERING AND TRAINING CENTER IN PHILIPPINES*

The S.U.N. in the Philippines
Smart Utility Networks

Green Power Investment Venture Program



THE M.O.T.H.E.R

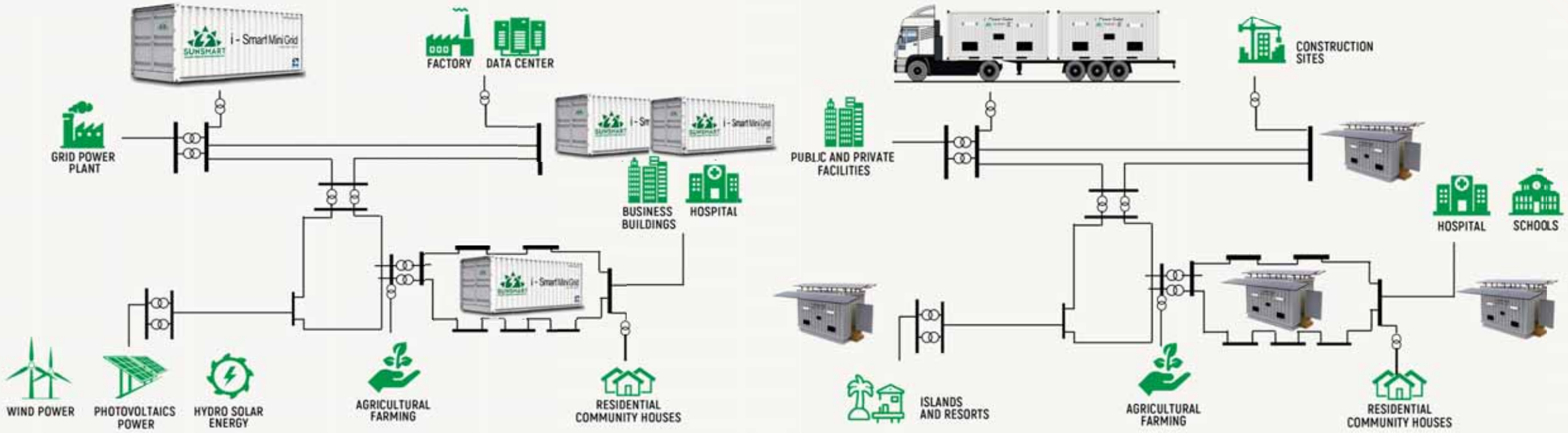
"Mission Objective Towards Holistic Energy Resiliency"

LEGISLATIVE MEASURES

NATIONAL MANDATE	PROJECT FOCUS	IN COMPLIANCE
REPUBLIC ACT NO. 11646 "Microgrid Systems Act	TO ACCELERATE TOTAL ELECTRIFICATION OF UNSERVED AND UNDERSERVED AREAS NATIONWIDE	(a) Pursue sustainable rural development and poverty reduction towards nation-building through energy access for all; (b) Accelerate total electrification and ensure the provision of quality, reliable, and secure electricity service at reasonable rates in unserved and underserved areas; (c) Promote private sector participation in the electrification of unserved and underserved areas; (d) Provide a competitive environment for different kinds of energy sources while prioritizing low-cost, indigenous, renewable, and environment-friendly sources of energy; (e) Ensure the adoption of a dynamic regulatory environment that does not impair nor inhibit end-users from accessing or enjoying the benefits of technologies and innovations in the electric power industry.
R.A. 7160 General Welfare Act	Inclusive Growth	addresses the right to access water, energy, and water as a fundamental human right, ensuring universal access to safe, adequate, affordable, and sustainable water supply and sanitation. It emphasizes the importance of protecting, preserving, and reviving water resources and ecological balance. The Act also promotes innovative solutions and international best practices to address climate change challenges.
R.A. 9729 Climate Change Act	Climate Action	in response to the urgency for action on climate change. This act aims to mainstream climate change into government policy formulations and establish a framework for addressing climate change. It also establishes the Climate Change Commission (CCC) as the lead agency for climate change.
EO26 National Greening Program	Green Infrastructure	(NGP) in the Philippines is a reforestation program aimed at planting 1.5 billion trees in 1.5 million hectares of land to cover all remaining unproductive, denuded, and degraded forestlands. The NGP aims to address poverty reduction, food security, environmental stability, and climate change adaptation and mitigation.

OBJECTIVE





“Greening the Grid is our Ultimate Mission”

To timely provide Cleaner, Cheaper, Convenient alternative accessibility to Power, water, Communication and Connectivity in an independent, decentralized, scalable and smart network

SMART ENERGY ECOSYSTEM DEVELOPMENT

INFINITE



i-Smart Black

Monocrystalline/Bifacial Glass Solar PV Panels.
Capacity: Infinite

SMALL SCALE



i-MoGen

Intelligent Mobile Generator Capacity: 200w – 20KW

MEDIUM SCALE



i-Power Cube

Power + Potable Water + Filtered Ice + Cold Storage + Communication + Connectivity + UPS
Capacity: 4.5kw – 25kw

LARGE SCALE



i-Smart Mini Grid

Aaccelerated Smart Hybrid Power Station Capacity: 20kw – 2mw++

ROAD SAFETY MANAGEMENT



i-Solar Streetlight

Lighting + CCTV + Connectivity Capacity: 15w – 120w

AIOT INFRA ENHANCEMENT COMPONENT



POLARIS

AIOT + Communication + Connectivity
For Smart City Development

SunSmart Builds and Operates Holistic 24/7 Smart Hybrid Energy Foundation for Sustainability, Resiliency and Climate Change Adaptation


FOCAL PROJECTS
#SunSmartingPhilippines

ISLAND SOLAR HYBRID MOTHER UTILITY STATIONS

FOCAL PROJECT Phase 1

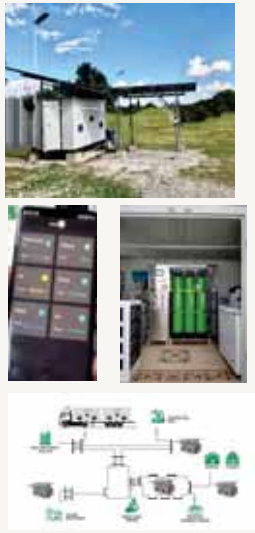
NORMAL



Develop the unserved and underserved areas powered by Diesel Power Plants.



BETTER NORMAL



PHASE 1: BRIDGE GAP BETWEEN ENERGY AND ENVIRONMENT *through* THE MOTHER "Mission Objective Towards Holistic Energy Resiliency"

By Putting up Integrated, Independent, Stand-Alone, Self-Generating Micro-Utility Solar Power + Potable Water + Edible Ice + Cold Storage + Charging + AP Connectivity Stations; for General Welfare particularly in geographically isolated disadvantaged areas to enable communities to simultaneously attain the common goal of betterment of life . The system will serve as a key component solution to energize far flung agricultural, indigenous and environment protected communities thus elevating livelihood and empowering mankind by engaging energy to nature to serve these most basic essential.

FOCAL PROJECT Phase 2

Solar Distributed Generation Facility (DGF)

NORMAL

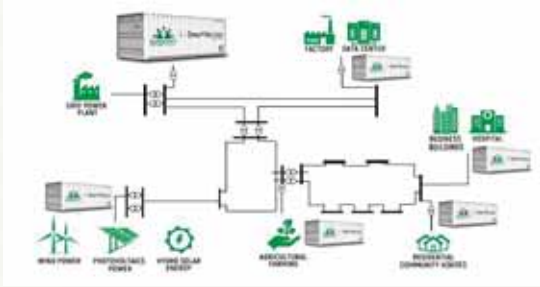




BETTER NORMAL

Time Efficiency
Modern Sustainability
Remotely Resilient





PHASE 2: GREENING THE GRIDS through THE S.U.N Solar Utility Networks by providing, converting, transitioning, conventional power generator plants and private energy partakers use of fossil fuels to Smart Solar Power Generation Systems within its decentralized and scalable networks of Power Generation Facilities.

This will serve as :

a. **Brand new, autonomous, smart and self-generating main source of power for fully off grid areas,**
b. **Co-generating power source when embedded** in current power distribution and power plants;
c. **As the Ancillary powe**r that will not only smoothen the flow of power supply during peak load but greatly reduce the cost of energy dispatch during power intermittence where it acts as the uninterrupted source of power supply.

This Phase of power development is crucial to tap along with energy sustainability plan that will both enhance economic value of used to be zero grid / intermittent areas and will help comply with the RPS renewable portfolio standards. The investment will serve as the primary key to gradually have independence from the se of coal and fossil fuels, achieve power cost reduction, create livelihood attain betterment of life and to greatly contribute towards decarbonization goals aligned with net zero

THE SUN IN THE PHILIPPINES

FOCAL PROJECT Phase 3

SMART SITIO to SMART BARANGAY to every RURAL AREA



INTEGRATED SOLUTIONS:

- Smart Solar Streetlighting with CCTV monitoring and Connectivity Capability
- IoT Command Center
- Indoor & Outdoor Asset Tracking
- Traffic Management
- Street Luminance Monitoring
- Smart Parking

- Energy Management System
- Water Management System
- Waste Management System
- Air Quality Control
- Weather Monitoring
- Water Level & Boiler Monitoring

- People & Vehicle Counting
- Citizen App
- Smart ID
- Facial Recognition
- Thermal Scanning
- Panic Buttons

PHASE 3 : ENERGY RESILIENCY through Smart Green City Modernization

For Urban areas: this serve as a sustainable, climate smart, safe, secured and resilient investment for modernization

For Rural / Remote areas: this serve as the smart energy infra component for safety , security, emergency response, rescue, disaster aid, et.al.

For both Urban and Rural : this serve a beacon for last mile Communication and Connectivity.

THE SUN IN THE PHILIPPINES

THE M.O.T.H.E.R

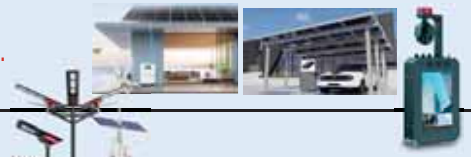
"Mission Objective Towards Holistic Energy Resiliency"



The M.O.T.H.E.R an autonomous, smart, decentralized, scalable and hybrid "Multi-Utility Service Station nurtures to provide: 24/7 Cleaner, Convenient and Continuous source of POWER, POTABLE WATER, RECYCLED WATER FOR BASIC WASHING OR IRRIGATION USE, EDIBLE ICE CUBES, COLD STORAGE, CHARGING STATION, COMMUNICATION & CONNECTIVITY.

with automated prepaid / remote pay system duly integrated with AIoT sensors for Environmental Monitoring on Air Quality, Wind Speed, Humidity, Flood, Weather Forecast, Perimeter Lighting, 360 degrees CCTV, Siren Alarm, Hazard Warning Light and Audio Broadcast for *"Environmental Safety, Disaster Preparedness, Rescue and Emergency."*

Energy Efficiency, Savings, Carbon Mitigation and Environmental Impact

EVERGREEN Energy Ecosystem A Climate Smart Service Oriented Enterprise	Green Energy Efficiency and Savings		Carbon Mitigation Roadmap to Net Zero Goal		Ecological and Environmental Sustainability	
	Sun PV + ESS Generation In kWh per month	Sun PV + ESS Fuel Savings 18/PHP per month	Mitigated Fossil Fuels per month IN KGS	Mitigated Fossil Fuels per month IN TONS	Total Equivalent No. of Trees Planted per month	Total Equivalent No. of Trees Planted per year
A. 	11,895 kWh	214,110.00	11,860 kg	11.86 tons	643 trees	7,708trees
B. 	165,600 kWh	2,980,800.00	165,103 kg	165.11 tons	8,943 trees	107,309 trees
C.	173 kWh	3,114.00	173 kg.	0.173 ton	10 trees	120 trees
D. 	14,573kWh	262,314.00	14,530 kg.	14.53 tons	787 trees	9,444 trees
E. 	39,360 kWh	708,480.00	38,455 kg.	52.53 tons	2,126 trees	25,506 trees
F.	1,384 kWh	24,912.00	1,380 kg.	1.38 tons	75 trees	897 trees
GRAND TOTAL GREEN GENERATION	232,985 kWh	P 4,193,730	226,627kg	226.63 tons	12,582 trees	150,975 trees

It is the upmost intention of SunSmart to roll out this investment program:
PHASE 1: Missionary Electrification Entry | PHASE 2: Solar Utility Networks | PHASE 3: EXPAND to much bigger power developments

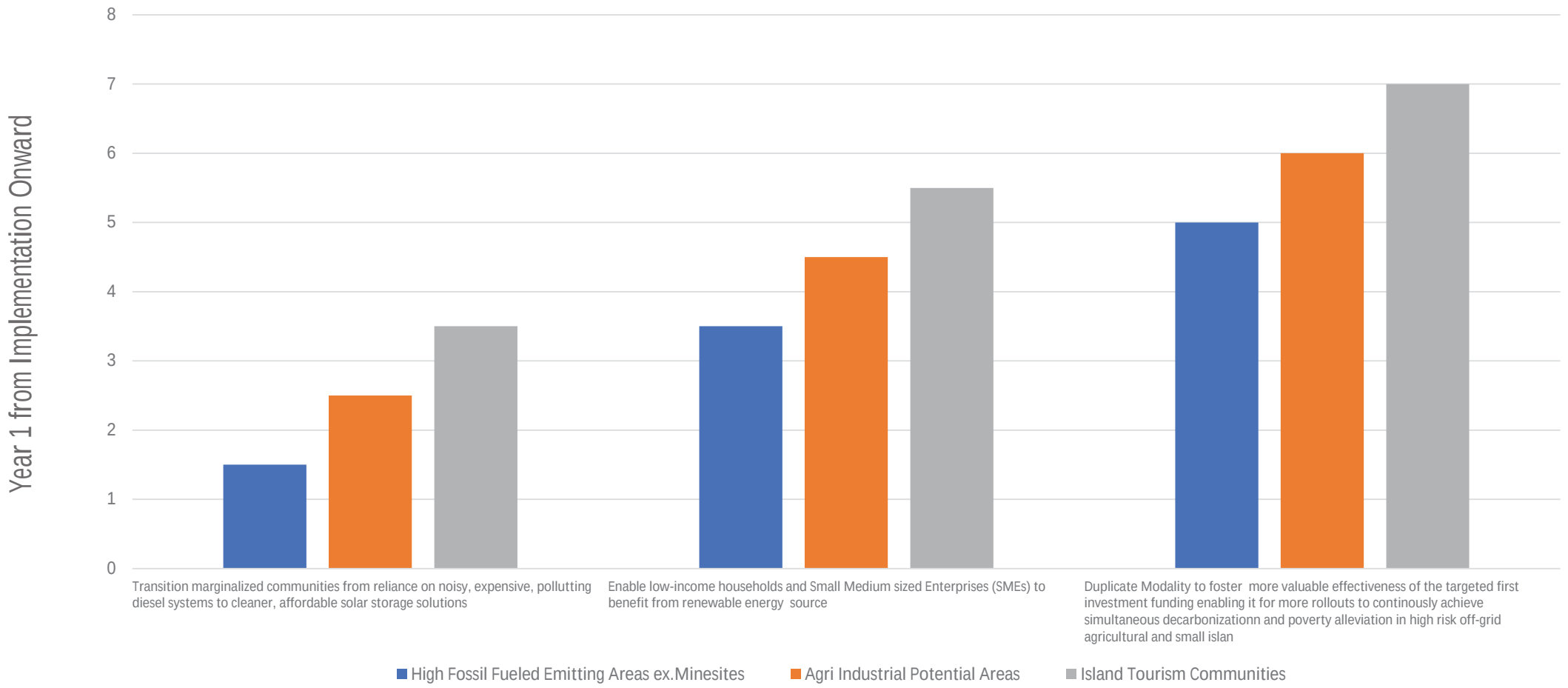
Long Term Climate-Tech Sustainability, Adaptability and Resiliency

FUTURE PROOFED

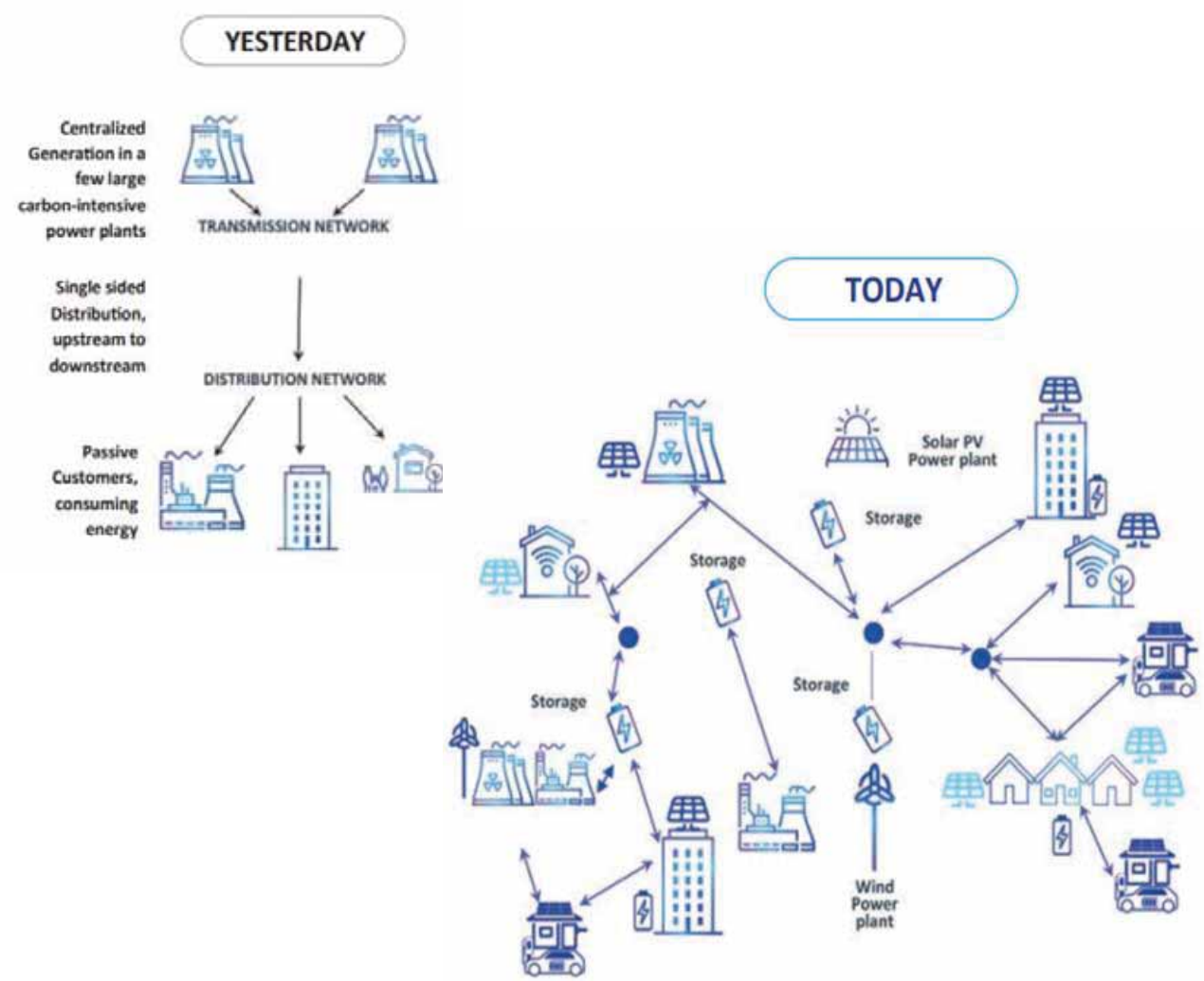
INVESTMENTS LONG TERM RESULTS

ANNUAL / YEARLY	Coal	Diesel	Solar Hybrid Evergreen
Annual Generation **ENERGY EFFICIENCY** All Renewable Power Source	0	0	**2,795,820 kWh** per year
Annual Generation **ENERGY SAVINGS** All Renewable Power Source	0	0	USD 898,656.43 per year
Annual CO2 Reduction **NET ZERO IMPACT** Equivalent per year emissions	0	0	2,719.56 tons per year
Annual No. of TREES **ECOLOGICAL & ENVIRONMENTAL** Generated and Planted in Equivalent per year	0	0	150,975 TREES per year

ROADMAP TO SIMULTANEOUS ATTAINMENT OF SDG, CC NET ZERO, DECARBONIZATION AND DIGITALIZATION



GREENTECH FUTURE :
SMART HYBRID ENERGY ECOSYSTEMS





EMPOWERING INFRASTRACTURE WITH

INTELLIGENT MICROGRIDS

SOLVING GRID LIMITATIONS WHILE REDUCING EMISSIONS AND ENERGY COSTS.

www.sunsmartisp.com


SUNSMART
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“LIVING OFF THE GRID MADE POSSIBLE”
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