

# Green Port and Renewable Energy Centre

**FORARI BAY**  
DEVELOPMENT COMPANY

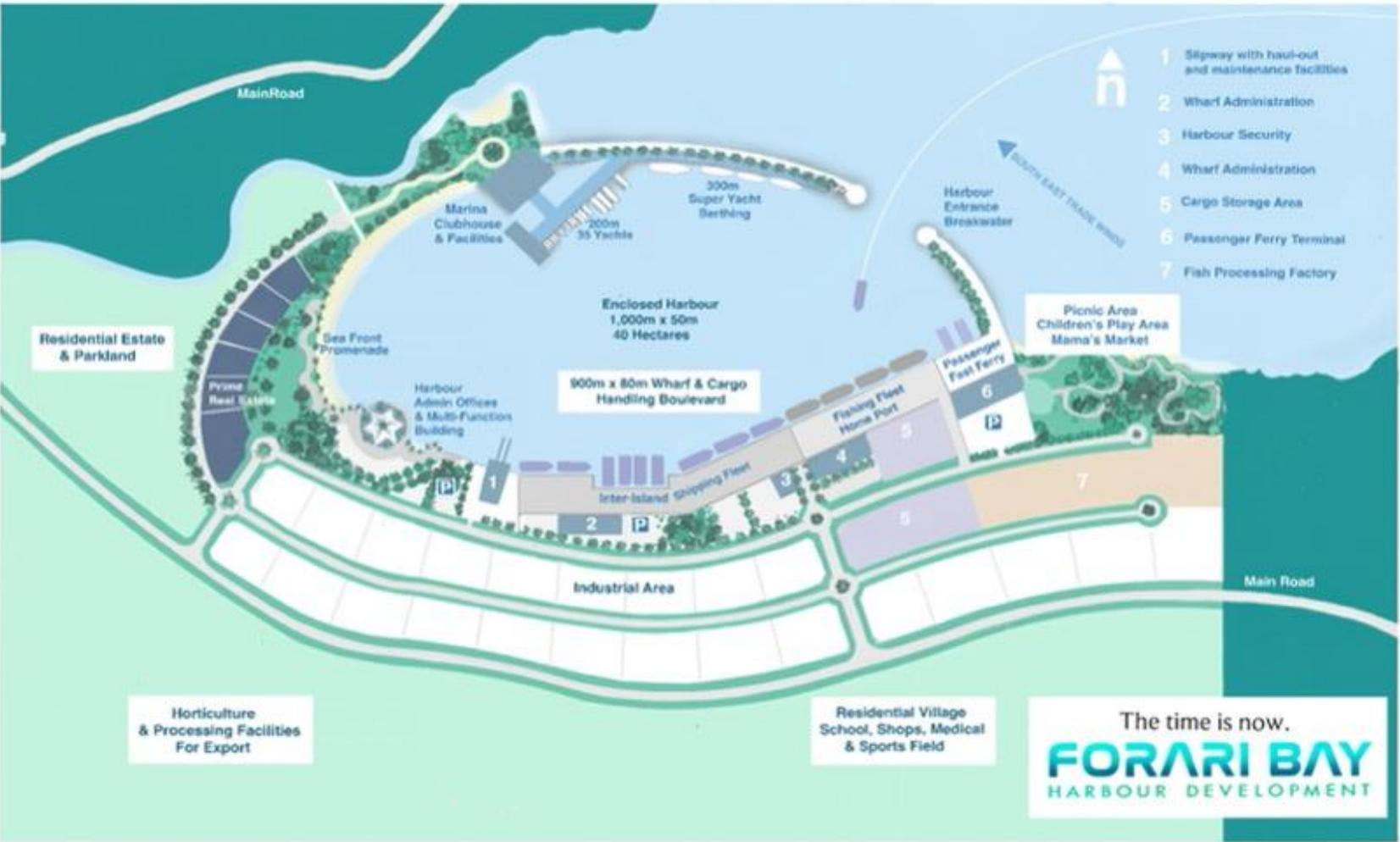
# Vision

- ▶ The Forari Bay Development Company's vision is that everybody goes green, we are guests of this planet and we take care of the earth for all living things. It just makes sense.

# Mission

- ▶ Our mission is to develop a totally green port and a sustainable manufacturing, agricultural and fisheries hub through considered socially and gender inclusive practices. We are passionate about making this development the leading blue-green development of the Pacific for long-term prosperity of our small island home.

# Forari Bay Development



# Economic Benefit

- ▶ Relocation of crowded domestic port to spacious and safe location
- ▶ Creation of 1000 new jobs in construction and operation over a 5-year period
- ▶ Vanuatu's National Sustainable Development Plan (NSDP) Renewable Energy goal achievement through use of renewable energy NSPD Blue-Green Economic Growth ENV2: 1-4
- ▶ New manufacturing facility for renewable energy products (locally assembled)
- ▶ New agricultural area made available for high demand crops

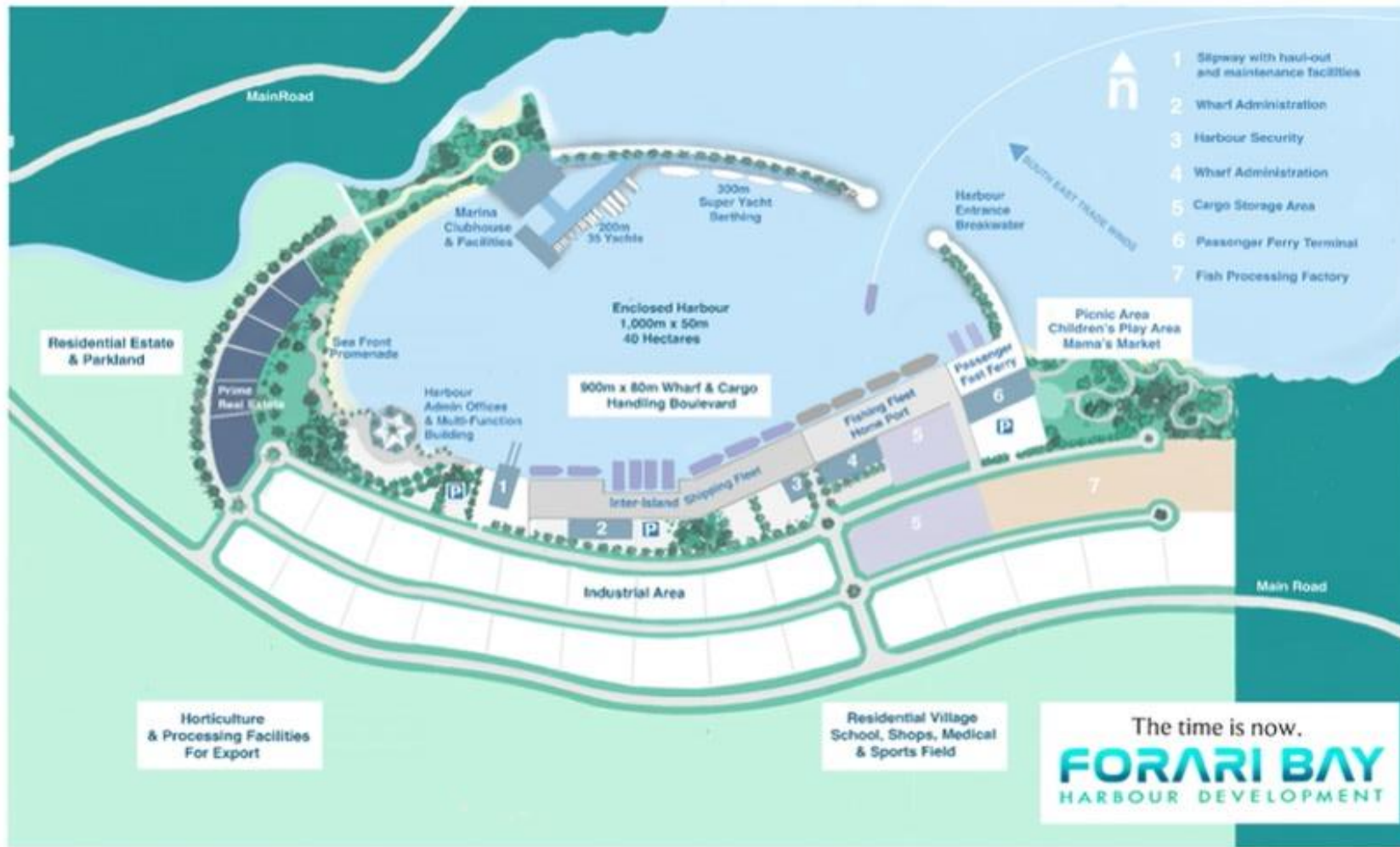
# Urgent Action

- ▶ The recently released UNFCCC IPCC report calls for urgent action through increased NDC commitments for nations to mitigate the impacts of climate change through greatly reduced dependence on fossil fuels.

# Supporting the National Sustainable Development Plan



# People and Land



Forari Bay Harbour and surrounds is 100% Ni-Vanuatu owned Project. The land is being provided by custom owners who have chosen not to sell to overseas investors to preserve economic benefit for Vanuatu.



# Zone 1

- ▶ ZONE 1 Plan: 90 hectares - Green port and energy centre providing zero emissions power plant for entire development and a new domestic fleet of 12 cargo and passenger vessels powered solely by renewable energy inclusive of:
  - ▶ Solar electric vehicle assembly facility
  - ▶ Slipway and ship repair capability
  - ▶ New National Domestic green port and trading hub including:
    - ▶ New industrial zone (subject to government approval)
    - ▶ Harbour breakwater and wharf
    - ▶ Domestic Port (Green Port)
    - ▶ State-of-the-art domestic passenger and cargo terminals
    - ▶ Domestic cold storage for agricultural, horticultural and fishing products from islands
    - ▶ Processing facility for export of agricultural, horticultural and fishing produce
    - ▶ Waste Management and recycling plant
    - ▶ Handicraft marketing centre
    - ▶ Water reticulation and management system



# Zone 2

- ▶ ZONE 2: 426 hectares
- ▶ Forestry, regenerative agriculture and horticultural lots
- ▶ Processing factory for horticulture and agricultural products
- ▶ Packing shed
- ▶ Refurbished airfield and terminal

# Budget

- ▶ The Scope of Work described in the Implementation Plan for the full development will require funding of USD 250,000,000.
- ▶ The intrinsic value of the 516 hectares of Land has been assessed at VUV 1,600,000,000 (being equal to USD 15,000,000) by a registered valuer, confirmed by Valuer General.
- ▶ The Land Value can be assumed as the Custom Owners Equity, Collateral and Security for Development Funding purposes

# Goals



# Renewable Energy Centre Goal ONE



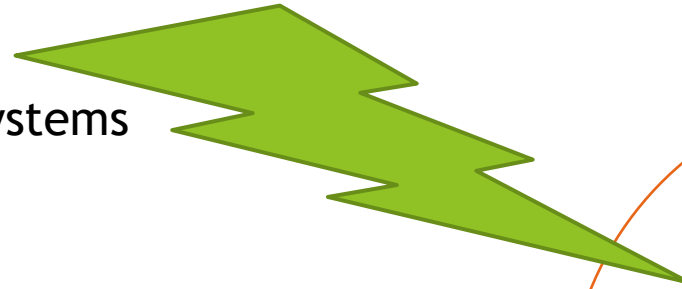
## GREEN PORT

- Solar Electric Transport Service
- Renewable Energy Technology
- Energy facility and Vehicle assembly plant
- Renewable Energy and power to all infrastructure
- Green Bus, Drone and Ferry service
- Regional Export Service

# Renewable Energy Centre

1. Assembly of Solar Electric Vehicles

2. Manufacture of Independent Power Systems



Solar Electric Transport

- Bus
- Car
- Trike
- Bike
- Ferry
- EMAY

Agricultural Development

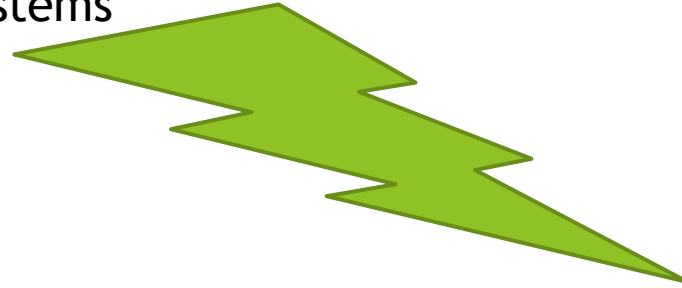
- 3 hectare Lots
- processing facilities

Port Infrastructure

- Slipway
- Terminals
- Industrial
- Residential

# Renewable Energy Centre

Assembly of Solar Electric Vehicles  
Manufacture of Independent Power Systems



## Solar Electric Transport

- Bus
- Car
- Trike
- Bike
- Ferry
- EMAY



## Cityline

☆☆☆☆☆ [Write a review](#)

### Range



120-150km (Fan)  
80-100km (A/C)

### Max Speed



50km/h

### Motor



AC 51V/15KW

### Battery



2 Sets 72V/150Ah

### Power Steering



Hydraulic-Assisted

### Max Solar Charging



475W

The best of Star 8 Green's e-buses, the Cityline is perfect for rush hours inside the bustling metropolis. Also ideal for transporting workers on large sites and as school buses.





# Trial in Port Vila



## Mini Cityline

☆☆☆☆☆ Write a review

### Range



120-150km (Fan)  
80-100km (A/C)

### Max Speed



45km/h

### Motor



AC 72V/15KW

### Battery



2 Sets 72V / 150Ah

### Power Steering



Hydraulic-Assisted

### Max Solar Charging



475W

# Electric Trike

## LUXURY TRIKE

Keep passengers in comfort. The 10-seater LUXURY TRIKE\* consumes no gas, and is the perfect people mover.

### Range



150km

### Max Speed



45km/h

### Motor



AC 51V / 7.5KW

### Battery



72V / 225Ah  
72V / 120Ah

### Max Solar Charging



475W

### Dimensions

365 x 160 x 195cm (w/side mirrors)  
350 x 145 x 183.5 (w/o side mirrors)

### Body

Fiberglass

### Roof

Fiberglass with Solar Panels

### Chassis

Iron

### Wheel Base

250cm

### Wheel Track

135cm

### Tire Size

5.00-12 (Front) / 165/70R13 (Rear)

### Ground Clearance

14cm (Full Load)

### Suspension

Fork Wheel (Front) / Leaf Springs (Rear)

### Turning Radius

≤ 2.8m

### Brake Type

Hydraulic

### Braking Distance

≤ 6.5m

### Passenger Capacity

10 Passengers + 1 Driver

### Curb Weight

1160kg

### Load Capacity

500kg

### Climbing Capacity

17%

### Accelerator

Resistance-Type 0-5K

### Controller

72V / 500A

### Standard Charging Time

10% / hour

### Charger

72V / 30A (for 225Ah Battery)

72V / 20A (for 120Ah Battery)



\*Also Available: A/C Unit

# E-Bikes



VAYA Hurricane e-Motorbike



VAYA Calypso e-Scooter



VAYA Supernova e-Motorbike

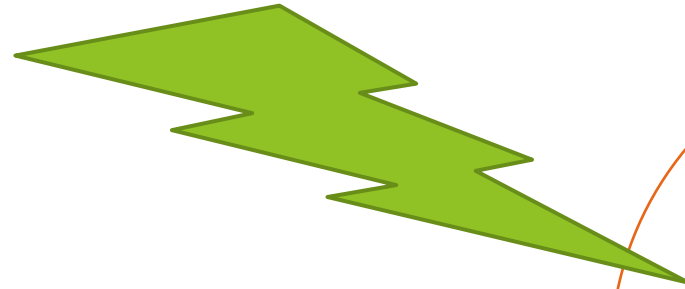


VAYA Z8 e-Motorbike

# Renewable Energy Centre

Assembly of Solar Electric Vehicles

**Manufacture of Independent Power Systems**



- Solar Electric Transport
- Bus
  - Car
  - Trike
  - Bike
  - Ferry
  - EMAN

- Agricultural Development
- 3 hectare Lots
  - processing facilities

- Port Infrastructure
- Slipway
  - Terminals
  - Industrial
  - Residential

# Life 8 Magnetic Motor

- ▶ The Life 8 is essentially a self-generating magnetic motor that relies on a
- ▶ combination of rare earth magnetics,
- ▶ coils and
- ▶ a fly wheel to produce power.
- ▶ 5 moulds - motorcycle, car, bus, house and vessel
- ▶ In development 250kw containerised unit and EMAV





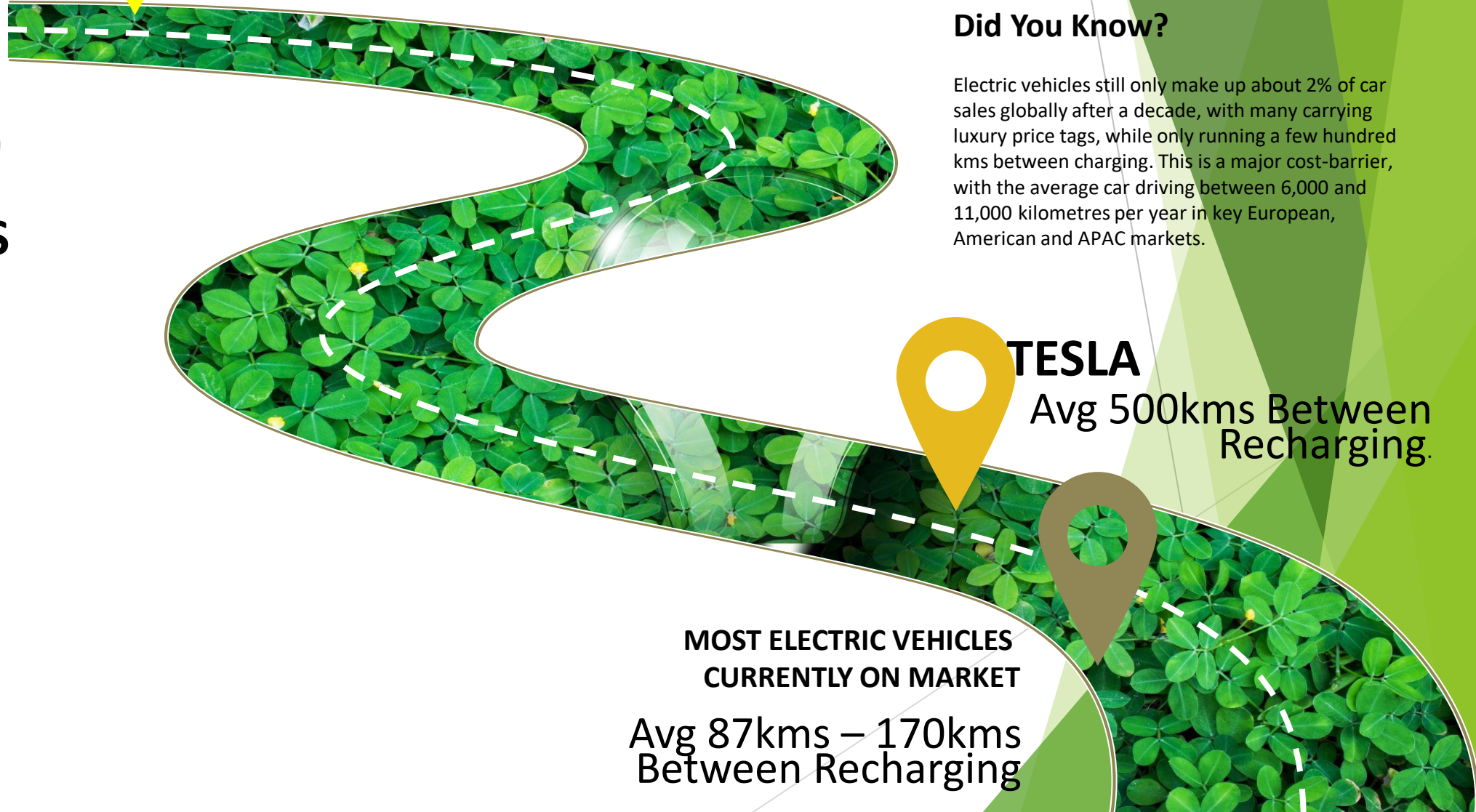
# LIFE 8 NEXT GEN RENEWABLE TECHNOLOGY

Field Tested On Road up to 10,000Kms for E-Car, E-Bus and E-Motorbike.

Returned Fully Charged Each Time With No Charging in Between.

**10,000  
KILOMETRES**

Without Recharging



## Did You Know?

Electric vehicles still only make up about 2% of car sales globally after a decade, with many carrying luxury price tags, while only running a few hundred kms between charging. This is a major cost-barrier, with the average car driving between 6,000 and 11,000 kilometres per year in key European, American and APAC markets.



**TESLA**

Avg 500kms Between Recharging.



**MOST ELECTRIC VEHICLES  
CURRENTLY ON MARKET**

Avg 87kms – 170kms  
Between Recharging

Ready To Manufacture At  
Mass Scale



Cheaper Than EVs With  
No Charging



Silencing Critics  
With Practical Action



Global  
Leadership



NSDP Green Policy  
Centrepiece



Increased Low Emission  
Vehicle & Home Energy  
Take Up



Import & Export  
Economic Boost



Manufacturing &  
Automotive/Transport  
Jobs



Construction  
Jobs



Local  
Leadership



Next Generation  
Renewable Energy



Accelerate Net Zero  
Emissions Targets





# Where to next?

- ▶ Concept Note completed
- ▶ Endorsed by National Advisory Board
- ▶ Import E-buses, E-Cars and E-Trikes
- ▶ Applications to Green Climate Fund
- ▶ Applications to all major Donor agencies
- ▶ Applications to Investment Bankers
- ▶ Commence PHASE ONE
  - ▶ Master planning
  - ▶ Renewable Energy Centre
  - ▶ Slipway and Marine Maintenance Facility

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<https://www.facebook.com/flyingkyxz/videos/175436391268033/?d=n>

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# FORARI BAY

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