Eco-Friendly Vehicle (EFV) – Concept Document

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Executive Summary

The Eco-Friendly Vehicle (EFV) is a next-generation, self-contained vehicle system that eliminates the need for fossil fuels or external electric charging. It uses a **closed-loop, water-based propulsion system** inspired by hydroelectric power, where water pressure spins turbines to generate both **mechanical motion** and **electricity**.

Unlike hybrid or electric vehicles (EVs), the EFV does **not require charging stations**, fuel, or large lithium-ion batteries. It operates cleanly, continuously, and independently—offering a **zero-emission** alternative for personal, public, commercial, and off-grid transportation.

The Problem

Current vehicle technologies—ICEs, hybrids, and even EVs—still rely heavily on:

- Fossil fuels or grid electricity (often non-renewable),
- Costly infrastructure (charging stations, fuel supply),
- Complex components (combustion engines, large batteries),

• High environmental costs (emissions, battery waste, energy loss).

Our Solution: The EFV

The EFV uses pressurized water in a closed-loop system to:

- Drive a turbine engine that powers the drivetrain,
- Simultaneously generate electricity for vehicle electronics,
- Recycle the same water continuously with no loss or waste.

The result: a **self-sustaining vehicle** that emits no pollution, consumes no fuel, and doesn't require external energy sources.

Key Advantages

- **Zero Emissions** during operation
- V No Charging or Fueling Required
- 🔽 Low Maintenance & Long Lifespan
- **Scalable & Retrofittable** into existing vehicle platforms
- 🔽 Ideal for Urban, Rural, and Off-Grid Use
- 🔽 Low Noise & Minimal Battery Use

Applications

• Personal Vehicles – Sedans, hatchbacks, SUVs

- Public Transport Buses, shuttles in urban or low-resource areas
- Commercial Fleets Delivery vans, trucks, logistics
- Rural/Remote Transport Off-grid mobility for agriculture, aid, or government
 Retrofitting – Existing vehicles converted to EFV platforms

Business Model

- Licensing & Royalty Partnerships with automotive manufacturers
- Prototype Development for demonstration and testing
- **R&D Collaboration** with engineering institutions
- Manufacturing Expansion for future scale-up

Current Status

- VIII white paper complete
- V System architecture scoped
- **V** Diagrams and draft patents in progress
- V Open to partnerships and engineering collaboration

What We Are Seeking

• **EVALUATE: EVALUATE: EVA**

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- **K Engineering Collaboration** to optimize pressure & turbine systems
- Support for Patent Filing & Commercialization

Estimated Budget (Initial Phase)

- Prototype: ₱5,000 ₱25,000
- R&D and Simulation: ₱25,000 ₱30,000
- Additional funding to be scoped for full-scale production

Contact

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Technical diagrams, system schematics, and patent drafts can be provided upon formal request for partnership evaluation.