



our strategic marketing partner



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ABOUT US

Powering a Cleaner Tomorrow

Belmops Technologies, based in Kerala, India, is pioneering the future of clean energy. With our patented breakthrough technology, we generate 100% clean and green electricity—completely free of carbon emissions. Our innovation is more than just a solution; it's a revolution in sustainable energy.

We are committed to reshaping the global energy landscape by providing environmentally responsible alternatives that support a zero-carbon future at a low cost, and no reliance on sun or wind."

At Belmops, we believe that clean energy isn't just an option—it's the way forward. 🌱

"Unlike traditional renewables, our system is unaffected by weather, sunlight, or location. From remote villages to industrial microgrids, Belmops Eco Gen provides dependable, carbon-free power — anywhere on Earth."

OUR SOLUTION

INNOVATIVE CLEAN ENERGY TECHNOLOGY

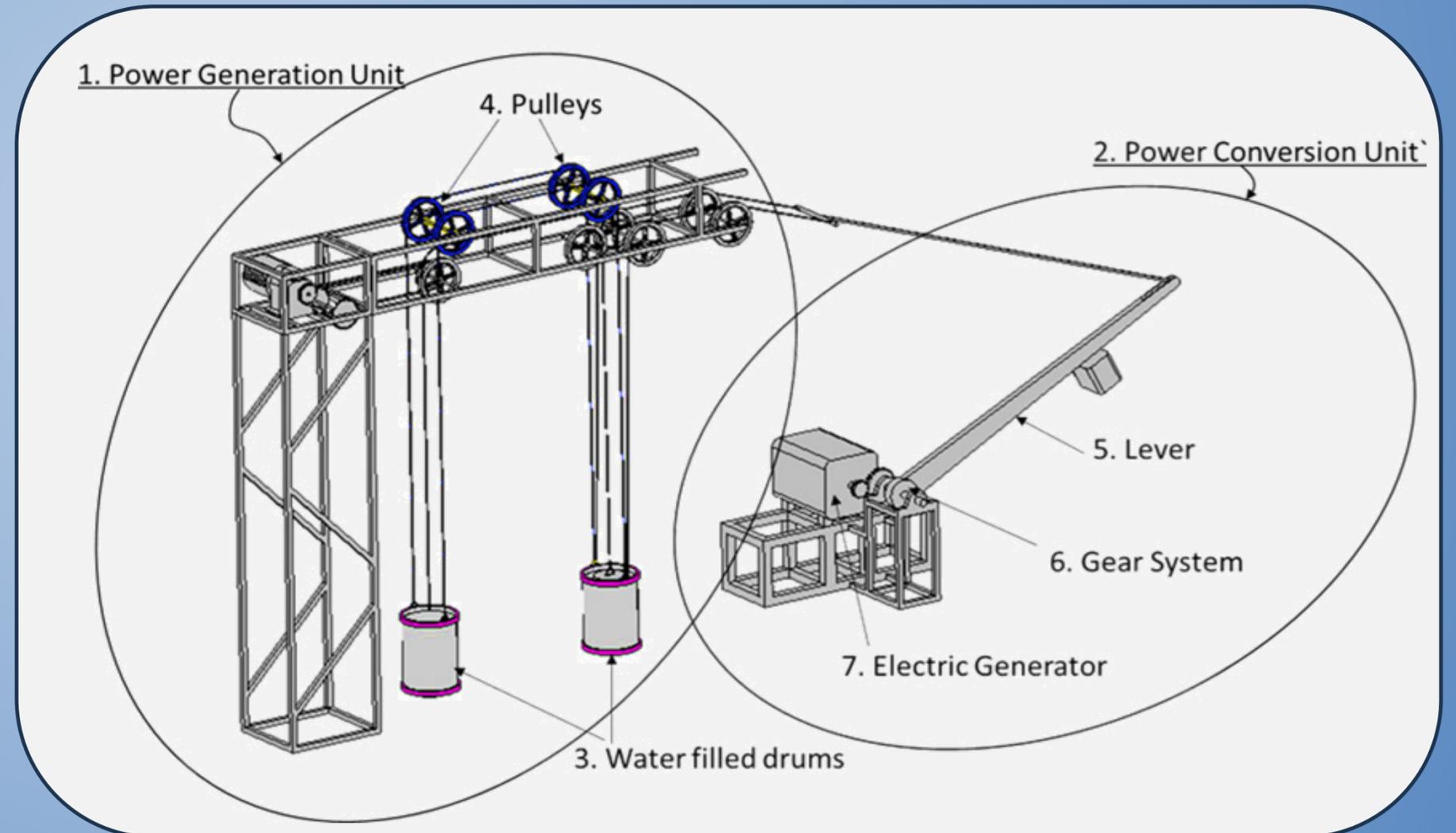
At Belmops Technologies, we've developed a patented innovation that harnesses small but powerful natural forces—buoyancy, drag, gravity, and leverage—to create a continuous and sustainable source of torque. This mechanical torque drives our clean electricity generation system, delivering 100% green energy with zero carbon emissions.

Our technology offers a scalable, reliable, and environmentally responsible solution to the global energy crisis—without relying on traditional fuels or weather-dependent sources like wind or solar

Revolutionizing Clean Energy with Simplified Engineering

Unlike previous attempts to harness these forces, which failed due to excessive mechanical complexity, our innovation features a simplified and robust design. This breakthrough not only improves system reliability but also significantly reduces operational costs related to land use, infrastructure, and ongoing maintenance.

Our optimized design allows for faster power production cycles, making it highly scalable and efficient across diverse deployment environments. The result is a clean, cost-effective, and zero-emission energy solution capable of transforming the global energy landscape.



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How It Works: Simplified Force Multiplication for Continuous Power Generation

Key Components and Mechanism:

- **Dual Outer Drums:** Two sets of outer drums are **half-filled with water (or a denser, low-viscosity fluid)** and suspended in a **counter-balanced arrangement**.
- **Inner Buoyant Drums:** Each outer drum contains an **inner drum** that is also filled with water to match the overall density of the surrounding fluid. One of these inner drums is **five times heavier** than the other.
- **Pulleys and Wheel System:** The inner drums are connected via **ropes and pulleys** to a central wheel. As the wheel moves forward and backward, it **raises and lowers** the inner drums.
- **Dynamic Imbalance:** The **movement of the heavier inner drum** creates an imbalance, causing the outer drum on that side to follow its motion. This leads to a **net downward motion** on the heavier side, creating a **rotational torque**.
- **Torque Conversion and Energy Output:** This torque is captured through a **lever and freewheel mechanism**, which drives a **gearbox-connected generator**. The gearbox ensures the output meets desired power levels.
- **Continuous Operation:** With **symmetrical twin systems** operating in parallel, the mechanism ensures **continuous, cyclic power generation** without interruption.

Simplified Force Multiplication for Continuous Power Generation

Key Benefits:

- ***Simplified Design:*** *Avoids the mechanical complexity that hindered similar past concepts.*
- ***Low Operational Cost:*** *Reduces need for extensive land, infrastructure, or high-maintenance components.*
- ***Scalable & Sustainable:*** *Adaptable to various capacities and deployment environments, with zero emissions.*
-  ***Belmops Eco Gen™***
 - ***Continuous Power Output*** *via symmetrical dual-drum mechanism*
 - ***Zero Emissions*** *and fully sustainable energy cycle*
 - ***Low Infrastructure Footprint*** — *no fuel, minimal land*
 - ***Robust Mechanical Design*** — *low maintenance, cost-effective*
 - ***Adaptable Across Terrains*** — *remote, urban, or off-grid use cases*

*Designed for **zero carbon emissions, low operational complexity, and scalability**, Eco Gen is a breakthrough alternative to traditional and weather-dependent renewable energy technologies,*

Industry Issues



Poor Capacity Factor

> 35% for Wind

>30% for Solar

Lower Cost Factor means cost of power from renewables is 2-3 times of conventional sources



Adverse Environmental Effects

78 MM tons of Solar Waste by 2050

Cycling effect of conventional units & high temperatures from heat flux above solar fields reduces the efficiency of renewables



4.5% increase every year

+ Increasing demand means more coal based power production.



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The Environmental Challenges of Existing Energy Solutions

	<i>Issue</i>	<i>Impact</i>
<i>Solar Energy</i>	<i>Toxic panel waste (lead, cadmium)</i>	<i>Soil and groundwater contamination if not recycled properly</i>
	<i>End-of-life panels (25–30 years lifespan)</i>	<i>Estimated 78 million tons of waste by 2050 (IRENA)</i>
	<i>Heat absorption and re-emission</i>	<i>Local temperature increase up to 4°C, altering microclimates</i>
<i>Wind Turbines</i>	<i>Wildlife disruption (foxes, red mammals)</i>	<i>Noise forces species relocation and disrupts natural behaviors</i>
	<i>Bird and bat deaths</i>	<i>Up to 500,000 birds killed annually; 80% drop in bats near wind farms</i>
	<i>Wind circulation disruption</i>	<i>Slower pollutant dispersion, local warming (0.3°C increase)</i>
<i>Underwater Turbines</i>	<i>Disruption of ocean currents</i>	<i>Potential climate shifts; early signs observed in regions like Orkney Islands</i>
	<i>Impact on marine life (fish, dolphins, whales)</i>	<i>30% drop in fish populations; interferes with marine navigation and communication systems</i>

Market Opportunity

Grid Connected Renewable Energy

- 1 MW units to meet any amount of requirement.
- Off-grid opportunity

Distributed Power Generation

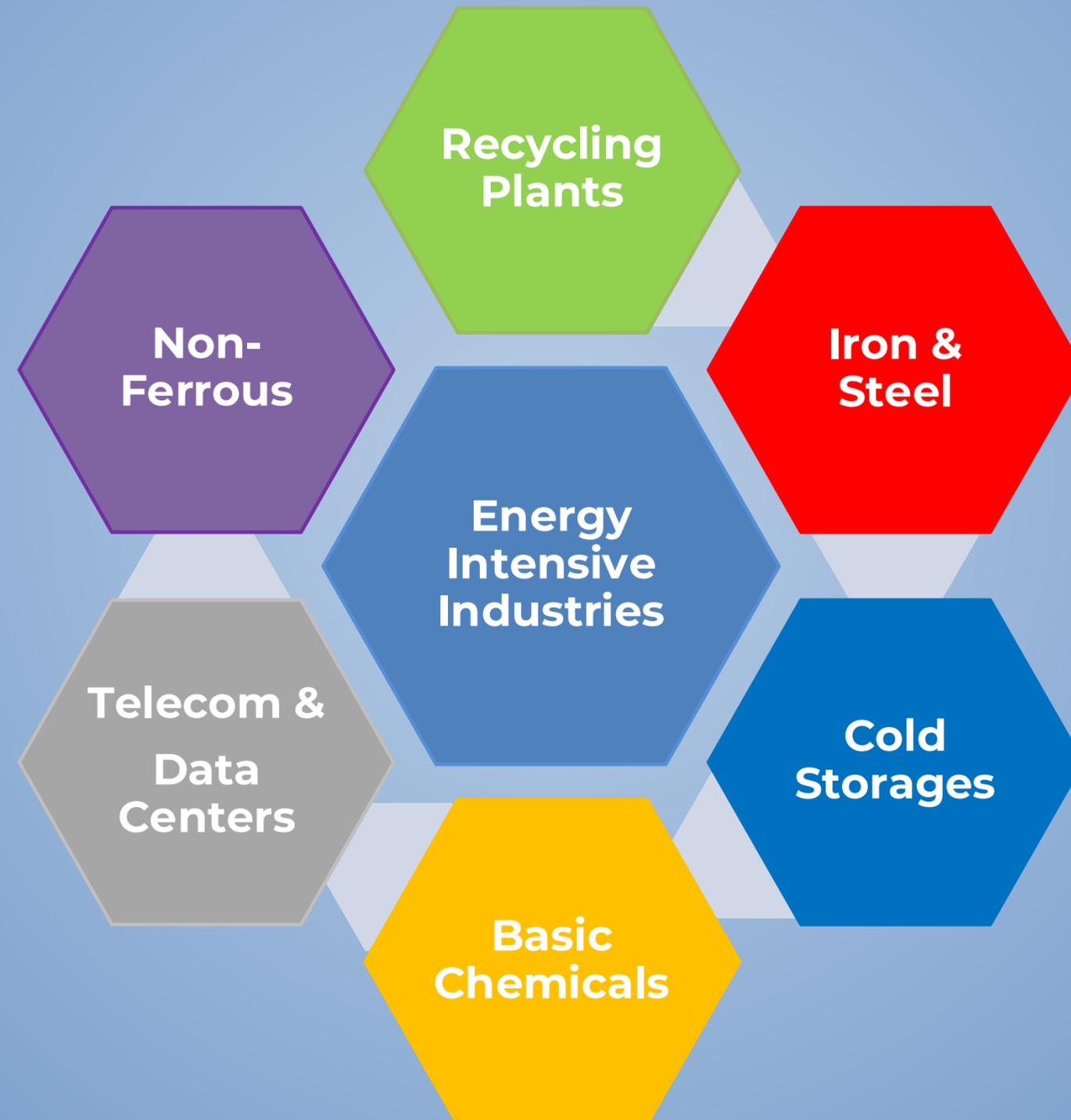
- Large rural opportunity at low unit cost & no EHT line
- Remote Defense bases, Islands, campus..

Carbon Offset Credits

Carbon credits can be sold to other companies or entities that need to offset their own carbon emissions



Potential Target Markets



Competitive Analysis



Solar(PV)

- *Water intensive – 850-4000 L/MWh*
- *4.5 acres/MW of land*
- *Intermittency issues and weather dependency*
- *Need storage option for continuous supply*
- *Emission of Solar waste*



Wind

- *High capital investment*
- *0.75 acres/MW of land*
- *Intermittency issues and region dependency*
- *Impact on wildlife*



Belmops EcoGen- Setup

Requirements for Setting Up

<i>Feature</i>	<i>Belmops</i>	<i>Solar</i>	<i>Wind</i>
<i>Land Use (1 MW)</i>	<i>20 cents</i>	<i>4.5 acres</i>	<i>0.75 acres</i>
<i>Working Hours</i>	<i>24×7</i>	<i>8–10 hrs./day</i>	<i>Weather dependent</i>
<i>Emission</i>	<i>None</i>	<i>High Solar Waste</i>	<i>Wildlife Impact</i>
<i>ROI</i>	<i>2–3 Years</i>	<i>7–10 Years</i>	<i>8–12 Years</i>
<i>Maintenance</i>	<i>Very Low</i>	<i>High</i>	<i>Very High</i>

On fulfilling the above Belmops Team then Builds, Operates & Manage The EcoGen Setup

Per 1 MW machine

Each of the 1 MW units will be comprised of 5 numbers of 250 KW machines and in case one of the machines needs maintenance, the fifth one which was in idle mode will take over.

Belmops Eco Gen- Market Opportunity

"The global clean energy market is expected to exceed \$2 trillion by 2030. Our technology is especially attractive for emerging markets, off-grid solutions, and countries aiming for rapid green transitions without massive infrastructure."

"We plan to deploy through licensing, manufacturing partnerships, and direct installations in both public and private sectors. Our low operating and maintenance costs give us a strong pricing advantage."

"We've completed a working prototype and secured our patent. Our next goal is to launch pilot installations with municipal or industrial partners, Global partners and Est Oman is leading go-to-market strategy across India and Globally."

"Belmops isn't just building a new energy device—we're creating a new standard for sustainable power. We believe this technology can redefine how developing and developed regions alike think about clean electricity."

Vision





“Clean power everywhere, even where solar and wind can’t reach.”

EST Oman, our strategic marketing partner, brings this revolutionary solution to the global stage—ensuring wide-scale deployment and adoption in key energy markets.



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