

BLUETECH INDONESIA PROJECT

PROJECT
INDONESIA

Empowering Indonesia's Coastal Communities and Protecting Our Oceans: Join Us in Transformative Impact

The BlueTech Indonesia Project is spearheaded by a partnership between Pandu Laut Nusantara, an Indonesian NGO dedicated to ocean conservation, and Gempacs, an innovator in marine electric mobility. Together, they aim to uplift Indonesia's coastal fishing communities. This groundbreaking initiative offers small-scale fishers electric boat technology, sustainable energy solutions and comprehensive community support programs, enabling them to sustainably earn a better income and raise their quality of life.

The BlueTech Indonesia Project creates sustainable change for coastal communities in Indonesia, redefining their sustainability and economic stability.







The Challenge for Coastal Communities

As the world's largest archipelago, Indonesia's vast marine resources have been a source of income and sustenance for millions. The country's fishing sector holds incredible potential. Yet, small-scale fishermen, especially those without resources, are among the country's poorest. Over 90% of the 16.2 million fishers live in poverty, constrained by outdated and inefficient equipment, rising fuel costs and exploitative practices by middlemen for access to the market. Dependence on diesel engines also worsens environmental issues, releasing pollutants that harm marine ecosystems and accelerate climate change.

The women who sustain these communities are particularly vulnerable. Despite making up 42% of the workforce, fisherwomen often lack access to vital resources, identity cards or social protections, leaving them without economic security or recognition. Furthermore, their livelihood is increasingly threatened by climate change, pollution and ecosystem degradation, which combine to heighten these challenges, depleting fish stocks and making fishing more arduous and less sustainable.





Our Mission

Together, Pandu Laut Nusantara and Gempacs are committed to breaking the poverty cycle, making going out at sea safer, healthier, more environmentally sustainable and economically affordable.



Our Solution

Empowering Fishers and Fisherwomen with Clean Technology and Resources

The BlueTech Indonesia Project is a comprehensive response to the challenges facing Indonesia’s fishers and the women who support them. By supplying small-scale fishers with environmentally friendly electric boats powered by electricity and outfitted with geolocalization technology and species-specific fishing equipment, we offer a pathway to reduced operational costs and fuel dependency, while supporting sustainable fishing practices, promoting marine conservation and enhancing the safety of fishermen on the water, resulting in stronger community resilience.

Your support will be instrumental in enabling this transformation.
A donation to the BlueTech Indonesia Project will:



Provide Fishermen with Essential Resources



Enhance Community Resilience and Safety



Foster Economic Empowerment for Women in Coastal Communities



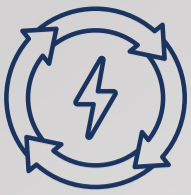
Create a Self-Sustaining, Locally Driven Supply Chain



Reduce Environmental Impact



Promote Alignment with Global Sustainable Development Goals (SDGs)



Provide Fishermen with Essential Resources

By supplying electric boats and fishing gear, we enable fishermen to independently and sustainably access further, more abundant fishing grounds. Unlike their current diesel counterparts, these electric boats are cost-effective, reduce environmental impact, and are easy to maintain, allowing fishermen to focus on productive work without the burden of high fuel expenses or repair costs.



Foster Economic Empowerment for Women in Coastal Communities

Women make up nearly half of Indonesia's fishing workforce, yet often lack the resources or recognition that could lead to economic independence. In Pangandaran and other regions, women contribute significantly through fish processing, fleet financing, and net maintenance but typically lack formal job recognition, government benefits, or fair income opportunities. This initiative will provide them with equitable access to fishing assets, financial literacy training, and sustainable business skills to increase their agency within the community.



Reduce Environmental Impact

Traditional diesel engines create significant pollution that harms marine ecosystems. Electric boats reduce this impact by eliminating fuel emissions and chemical runoff, directly contributing to cleaner seas and healthier fisheries. Quiet electric motors also protect marine life from noise pollution, preserving the biodiversity crucial to maintaining the balance of these ecosystems. Solar-powered charging networks further lower the carbon footprint, creating a cleaner future for our oceans.



Enhance Community Resilience and Safety

Through advanced geolocation and communication technology, fishermen and women have access to real-time navigation assistance, weather updates, and emergency alerts, reducing their risk on the often hazardous seas. By building a network of charging stations in collaboration with Indonesia's state electricity provider (PLN), we are creating an infrastructure that not only supports these electric boats but builds community resilience against climate change impacts, storms, and environmental challenges.



Create a Self-Sustaining, Locally Driven Supply Chain

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Promote Alignment with Global Sustainable Development Goals (SDGs)

Our project actively contributes to eight United Nations SDGs, from ending poverty and fostering gender equality to promoting affordable, clean energy, economic growth, and climate action. We are focused on transforming marginalized fishing communities into models of sustainable living, where people and ecosystems can thrive together.



Our Program Initiatives

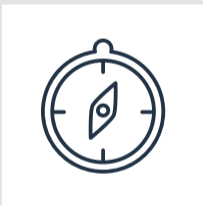


Our Program Initiatives



Electric Boats and Charging Infrastructure

Our project’s electric boats and charging networks (in collaboration with the national electricity provider) eliminate costly fuel dependence, cut operating costs and reduce environmental pollution and carbon emissions. With Gempacs’ expertise, these innovations are designed to be safe, affordable and easy to maintain. With quieter, cleaner engines, these boats preserve marine life and help fishers safely reach farther fishing grounds. By owning their boats, fishers gain economic independence and reduce reliance on exploitative middlemen, enabling a truly sustainable fishing model for Indonesia’s coastlines.



Geo-localization and Safety Technology

Electric boats will be equipped with Integrated geolocation, tracking and communication systems, helping fishers save time, increase safety and communicate in real time. This technology helps fishers access weather updates and emergency assistance and alerts, critical in a region increasingly impacted by extreme weather. This ensures increased safety, minimized risk and more efficient fishing operations.





Economic Empowerment and Skill Development

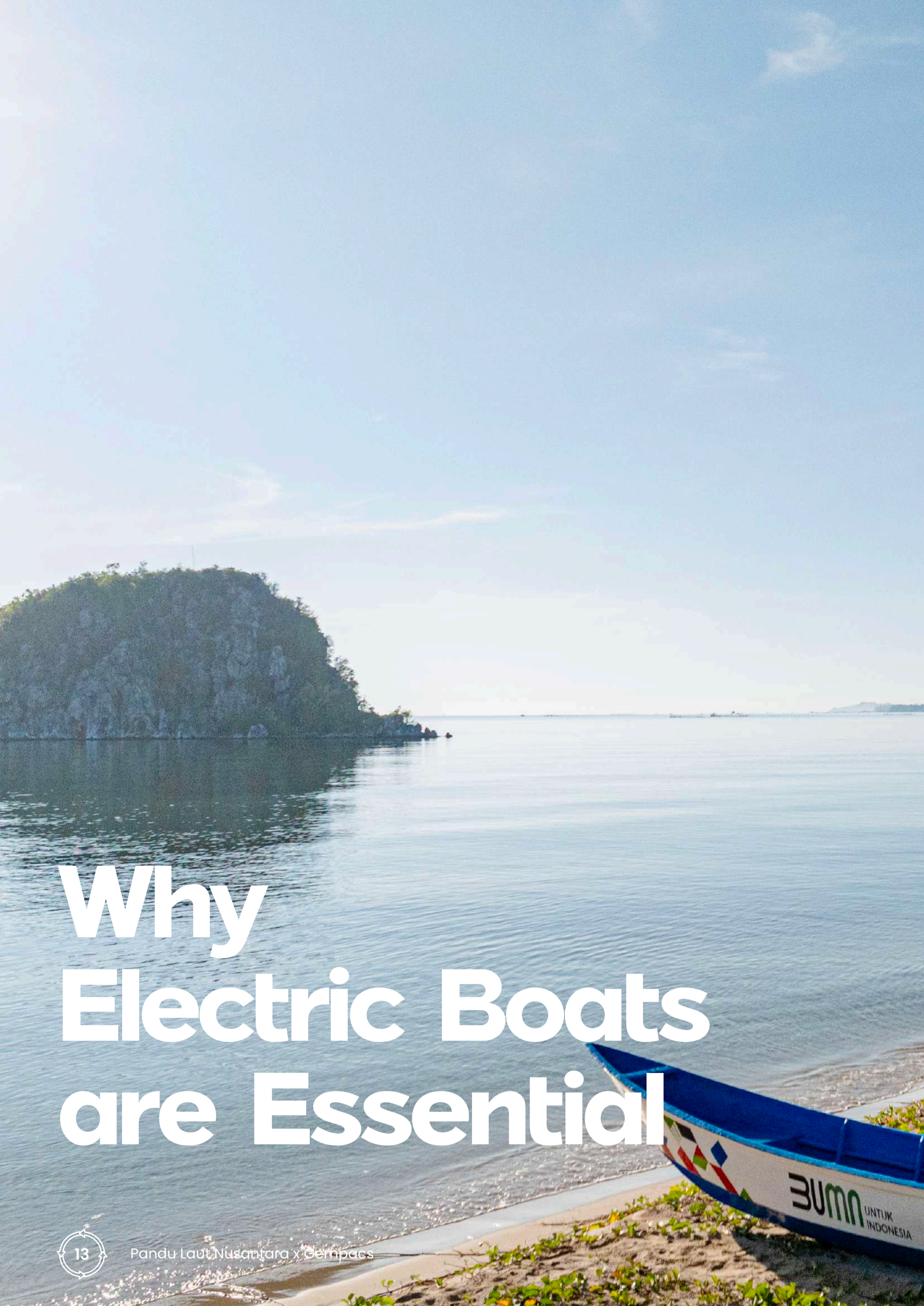
We provide coastal communities with training in boat maintenance, electric engine care, environmental education, sustainable fishing practices and financial literacy. For women, this training is essential for business management and financial independence, lifting entire families out of economic dependence.



Support through Government Benefits and Identity Recognition

Our team assists fishermen in obtaining essential government identity cards and enrolling in healthcare and accident insurance programs. This extends security nets to fishing families, who typically face occupational risks without any formal protections. Recognition of their roles and identities also brings them closer to formal economic and social support systems, changing their lives for the better.





Why Electric Boats are Essential



Why Electric Boats are Essential

The transition to electric boats offers enormous benefits for both people and planet. Electric engines reduce costs, maintenance, emissions and noise pollution, thus protecting marine ecosystems. With fewer moving parts, electric engines also cut down downtime and repair costs, allowing fishers to spend more time fishing during favourable conditions and to improve income and stability.



Creating a Self-Sustained Local Economy

The BlueTech Indonesia Project aims at building as close to a 100% local supply chain as possible, supporting Indonesian businesses and ensuring sustainability. By working with local manufacturers and suppliers for electric motors, batteries and other equipment, we strengthen the local economy. Training local technicians in electric engine installation and maintenance ensures long-term support and job creation, while assembly hubs near major fishing ports bring services closer to communities.



A Clear Path to the UN Sustainable Development Goals

Our project aligns with eight key UN Sustainable Development Goals (SDGs), directly addressing poverty (SDG 1), gender equality (SDG 5), affordable clean energy (SDG 7), and economic growth (SDG 8). By promoting local manufacturing and responsible consumption (SDG 12), we contribute to building resilient communities (SDG 11) and fighting climate change (SDG 13). Our commitment to sustainable fishing practices supports life below water (SDG 14), preserving biodiversity for future generations.



The Path Forward with Your Support

Indonesia's coastal communities stand at a critical juncture. With climate change increasingly affecting coastal ecosystems and traditional fishing practices becoming unsustainable, your support can provide an urgently needed transformation. By joining the BlueTech Indonesia Project, you are making a long-lasting impact on the lives of vulnerable fishing communities, empowering women and protecting the oceans we all rely upon. This project also builds a blueprint for sustainable fishing in archipelagic nations worldwide, showcasing Indonesia's leadership in the blue economy.





The BlueTech Indonesia Project urgently requires your support to make this vision a reality. A donation enables us to:



Equip fishing families with modern, eco-friendly boats and technology to improve income, safety and sustainability.



Build renewable charging infrastructure that reduces operational costs and supports Indonesia's clean energy goals.



Empower women in fishing communities with training, financial literacy and recognized status to foster economic and social resilience.



Support local industry and job creation by building a supply chain and training workforce, creating sustainable livelihoods.





Together, We Can Make a Difference

When you contribute to the BlueTech Indonesia Project, you are not only providing fishing families with modern tools but also reshaping their entire way of life. Your support can drive transformative change in Indonesia's coastal communities, creating a model of sustainable and inclusive development. Together, we can empower Indonesia's fishers to lift themselves from poverty, protect marine ecosystems and secure their livelihoods for generations to come. Electric boats and modern technology will enable them to work more safely, access equitable markets, increase their income and conserve the natural resources that sustain them. This is a legacy of resilience, empowerment and environmental stewardship—a true investment in a sustainable future for Indonesia's coastal communities.

Your donation will directly fund the provision of electric boats, the installation of charging infrastructure, training programs and essential community outreach efforts. Every dollar counts towards a more equitable, sustainable and prosperous future for Indonesia's coastal communities.

We invite you to be a part of this transformative journey.

Join us in redefining Indonesia's coastlines with the BlueTech Indonesia Project. Together, we can uplift lives, empower women and protect our oceans for generations to come.

Thank you for considering this partnership in impactful change and standing with us in this vital effort.





kolaborasi Gempacs dan Pandu Laut Nusantara