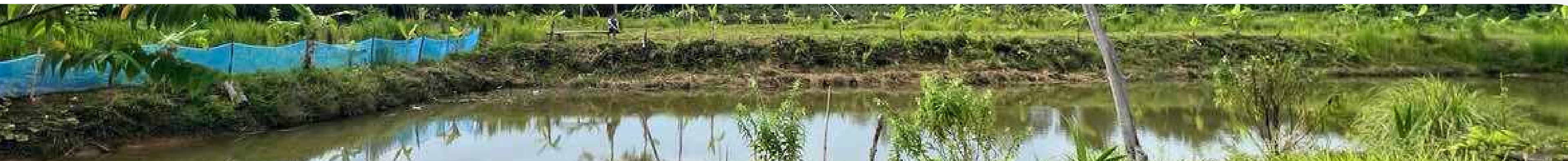
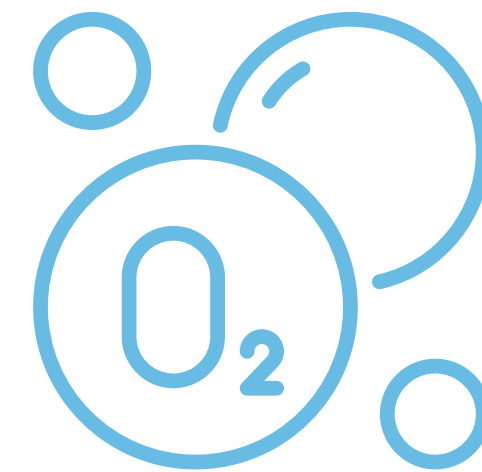
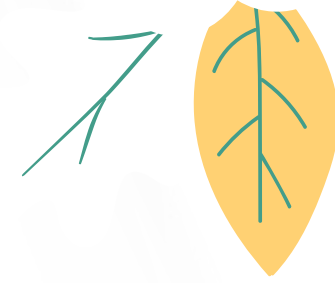


Solar-Power fountain Water Pump

Present by "We Khaen Change"



We Khaen Change's Members



Mina Keomany



Anoma Chounlamany



Phoutthasone Phomsimone



Nanthaxay Khamsavath

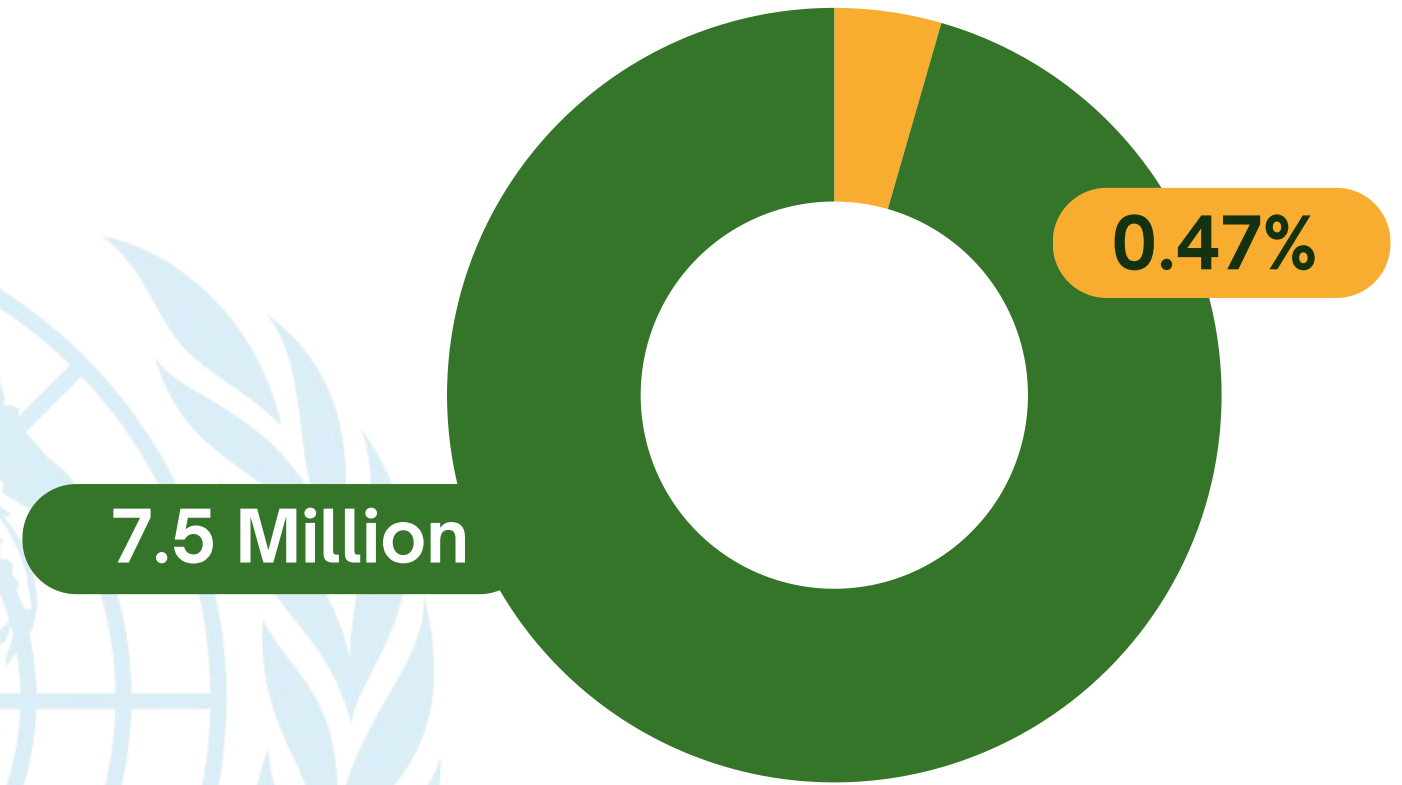


Xaythiphone Souliya

WE KHAEN CHANGE

Introduction

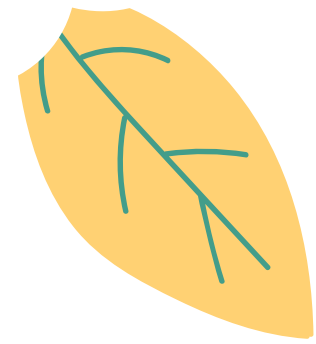
- Dengue fever statistics in Lao PDR 35.000 cases in 2023, WHO
- So far 2024 over 10 million cases have been reported from 176 countries around the world, more than 1 million cases every month. (WHO)



Research / Inspiration

We've researched global projects, focusing on Thailand's "Chaipattana Turbine" for water purification. These insights will help us apply effective and culturally appropriate elements to our project in Laos.

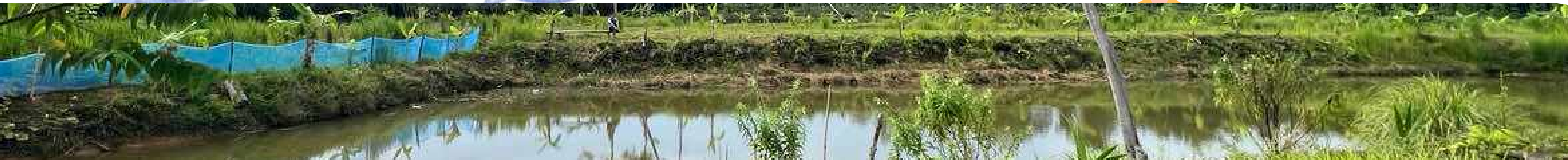




Problem

“ Can We Change? ”

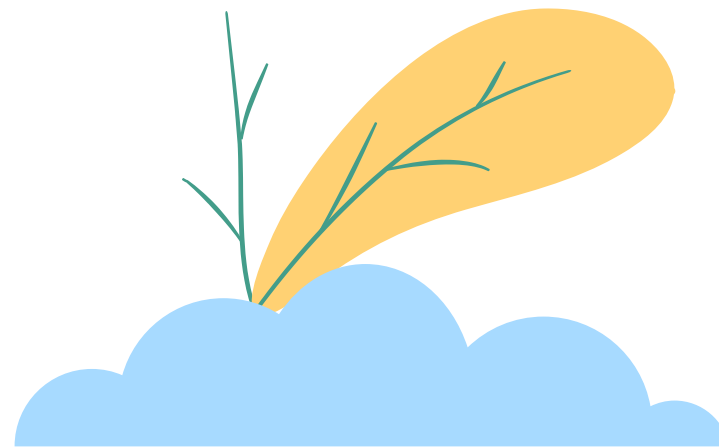
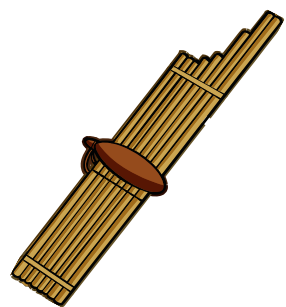
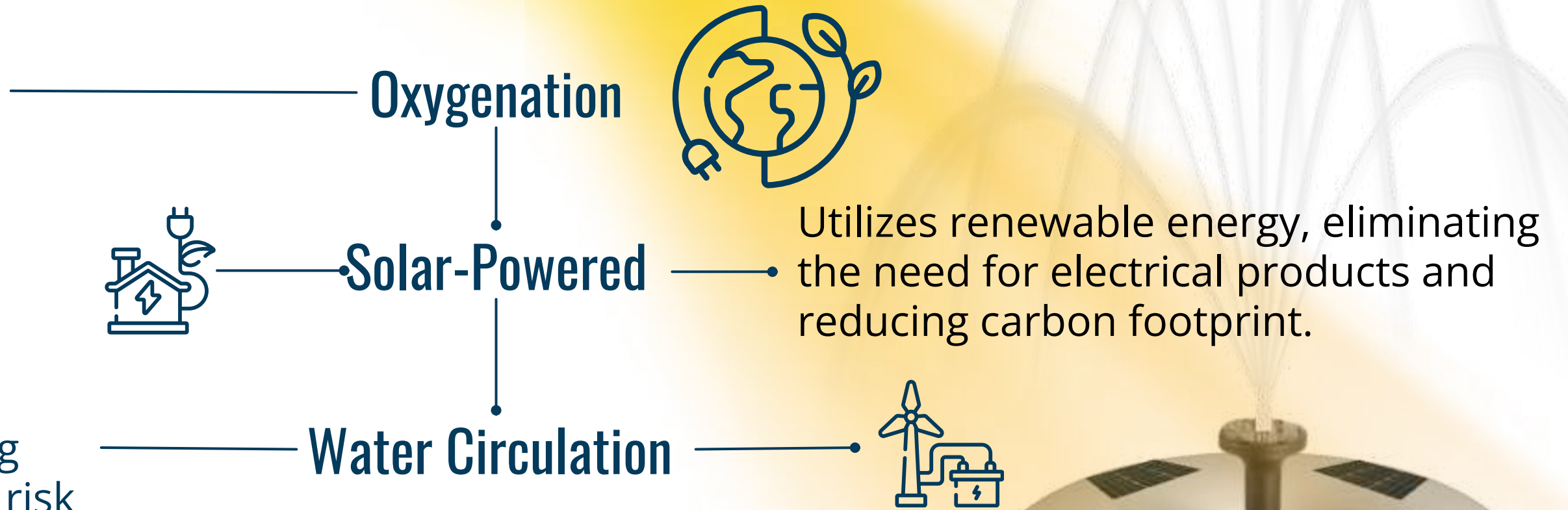
- **Dengue Fever**
- Water Quality Issues
- Lack of Oxygen for fish
- Environment Degradation



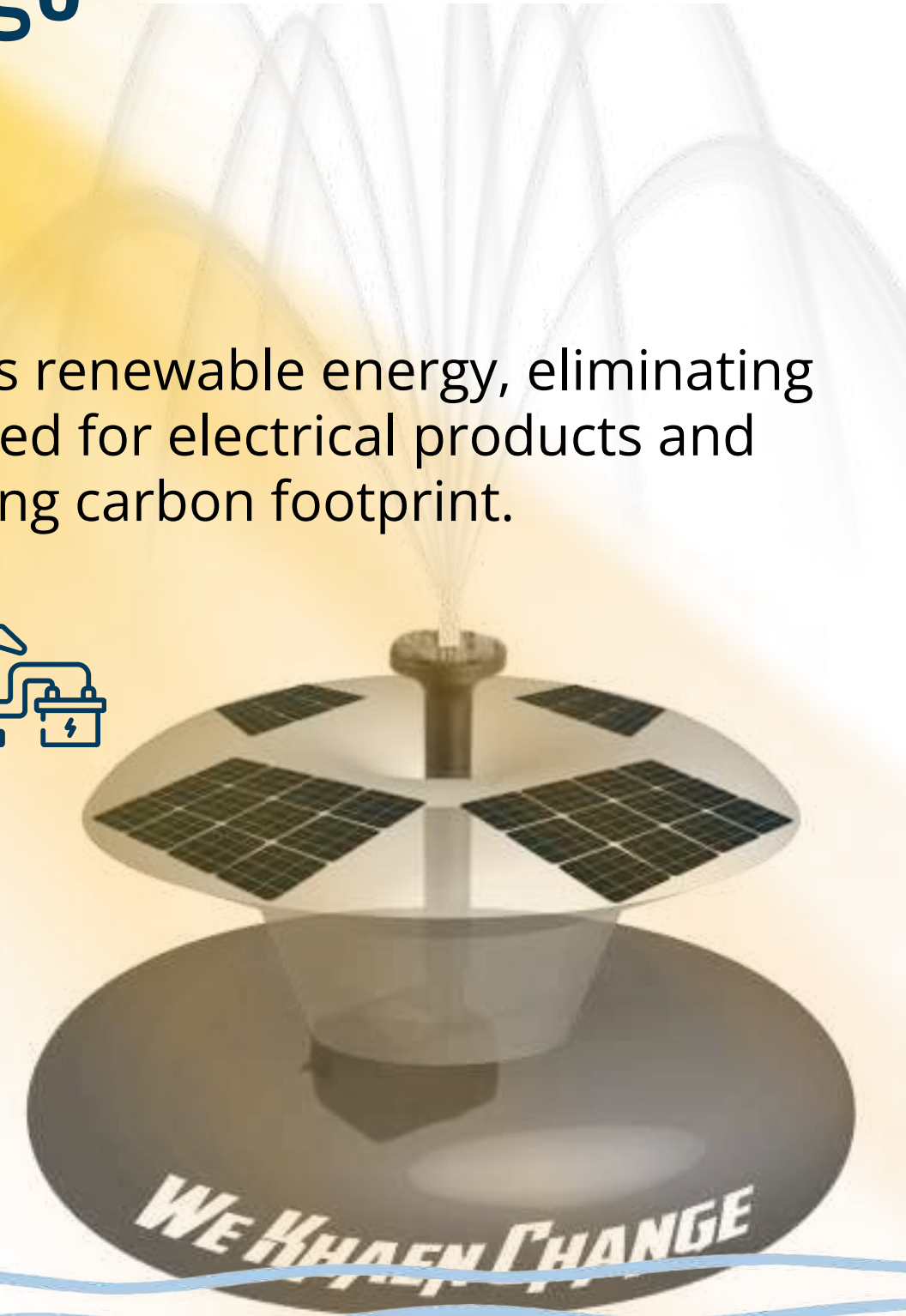
Solution - We Khaen Change

The pump aerates the water, increasing Oxygen levels for fish

Improves Water Quality by preventing stagnation, thus reducing mosquito breeding grounds and mitigating the risk of dengue fever



H₂O

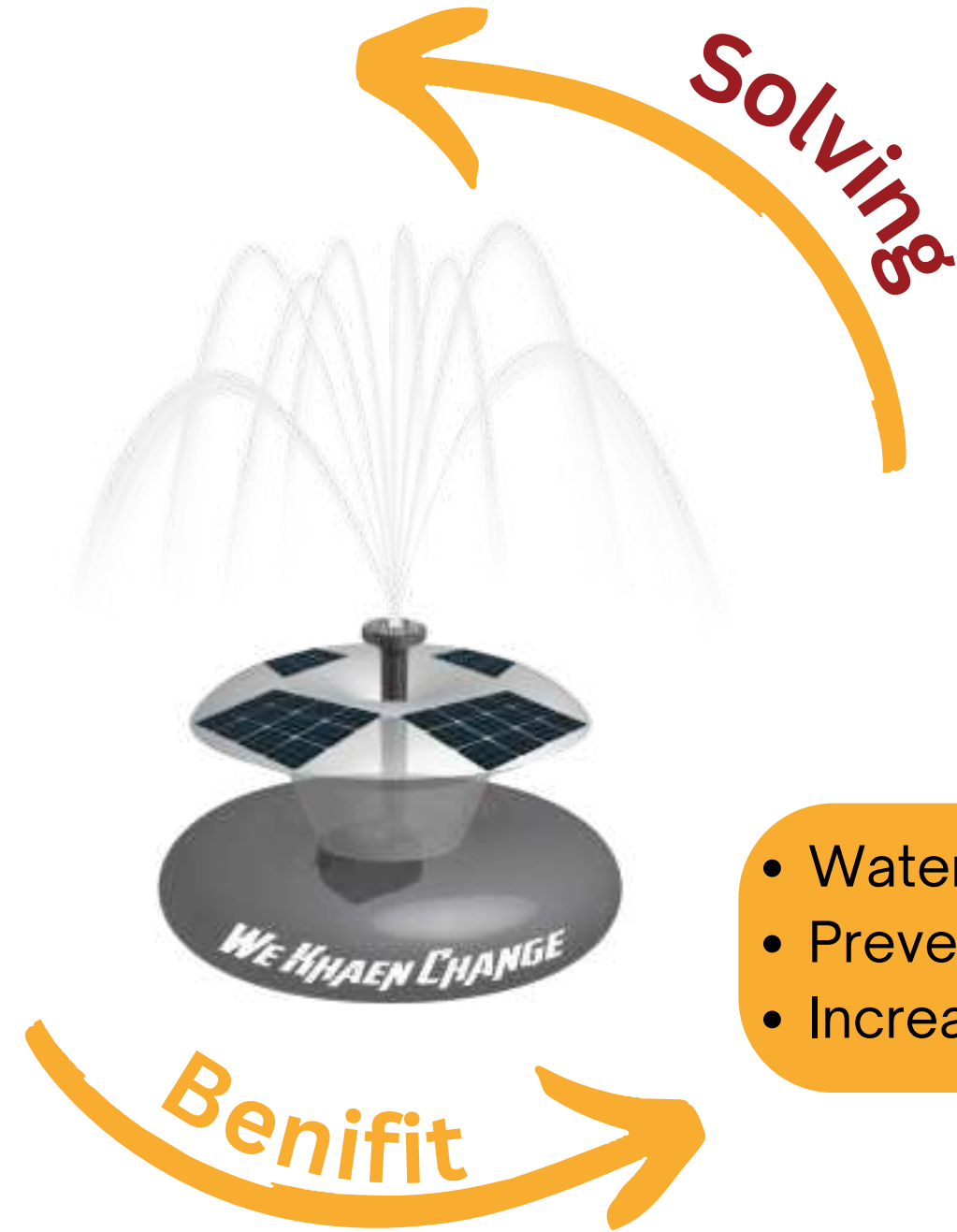


Challenges:

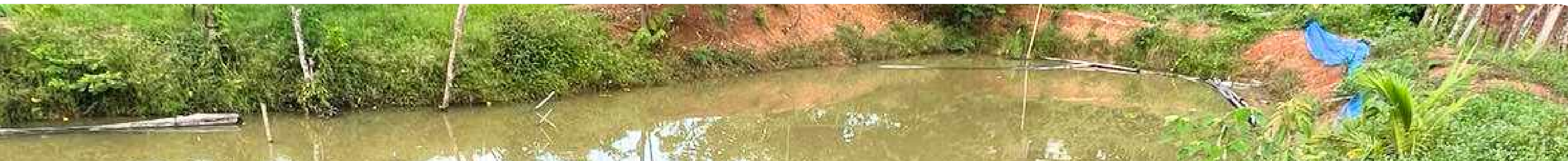
- Water Quality Issues
- Lack of Oxygen for fish
- Dengue Fever
- Environment Degradation

Solution:

Solar-Power Fountain Water Pump



- Water treatment
- Prevention of Dengue Fever
- Increase Oxygen for fish



What Makes Us Different?




This Innovation can solve 2 main issues in Laos with 3 methods

- **Unique Approach:**

We combine renewable energy with water management, tackling environmental and health issues together.

- **Adaptability:**

Our project can be scaled to various water bodies, benefiting multiple communities.



01.
Prevention
Dengue Fever

02.
Water
Treatment

03.
Increase
Oxygen for
fish





OSG youth alliance
国际青年联盟

RESOLUTE

ASEAN-CHINA-INDIA

YOUTH LEADERSHIP
SUMMIT 2024



Our Expectations - We Khaen Change

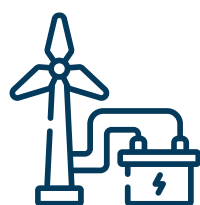
Positive Impact on Water Bodies

Significant improvement in the safety and quality of rivers and other water bodies in Laos.



Government Support

Increased governmental interest and investment in sustainable innovation for environment protection.



Community Engagement

Greater awareness and participation from local communities in maintaining clean and healthy water sources.



Long-term Sustainability

Contribution to the achievement of SDG 7 and SDG 11.

Collaboration Opportunities

Partnership with local businesses & international organizations to further develop and implement the technology.



How it can contribution to SDG 7 and SDG 11?

- SDG 7:
 - We promote clean energy through solar power from the sun to operate a water purification and aeration system.
- SDG 11:
 - Our project improves urban and rural water management, enhances living conditions by mainly reducing mosquito-borne diseases. Apart from this is to be good for both aquatic system and human health.



Way to sustainability



Animal Welfare

Enhanced Oxygen levels and cleaner water support healthier fish and aquatic ecosystem.

Cost Efficiency

Solar Power eliminates ongoing electricity costs and reduces dependence on non-renewable energy sources.

Human Health

Reduced risk of mosquito-borne diseases like dengue fever.

Inspiration for Further Development

Encourages investment in sustainable and green technologies.

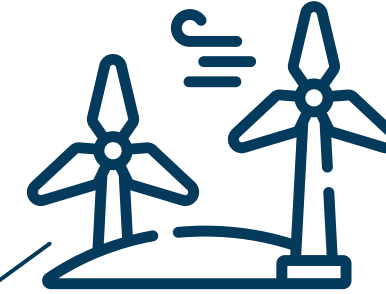
Education Opportunities

The project can be used as an educational tool to teach local communities about renewable energy and environmental conservation.

Summary of Innovation

The Solar Power Fountains Water Pump is a sustainable solution addressing multiple environmental and health issues in Laos.

Conclusion



Future Vision

Reduce a rate of Dangué fever, cleaner, healthier environment with enhanced aquatic life and reduced health risks.



Call to Action

Encourage stakeholders to support and invest in this innovation for a sustainable future.



Invitation for Collaboration

Open invitation to researchers, businesses and NGOs to collaborate on expanding and refining the project





Thank you very much for having us!

“ We Khaen(can) Change ”

