Project Dragonfly: The Ultimate Guide

Fiji’s Atmospheric Water Revolution

[Insert Project Logo Here]

1. Executive Summary

Project Dragonfly combines cutting-edge engineering with Fijian traditional knowledge to create decentralized water solutions. Our modular 250m² units deliver:

✓ 1,100-1,500L clean water daily

✓ 85-125 kWh renewable energy

✓ 0.5 acres/year of revived farmland

2. Technical Specifications

2.1 Core Components

| System | Details | Performance |

|----------------------|--------------------------------------|----------------------|

| Water Generation | Hybrid fog harvest + solar condensation | 1,100-1,500L/day |

| Energy Production | Bifacial solar sails (24% efficiency) | 85-125 kWh/day |

| Irrigation | Gravity-fed (0.2 bar) | 0.5 acres revived/yr |

2.2 Key Advantages

• 3.2× more efficient than standard fog nets

• 8-12°C local temperature reduction

• Storm-resistant (120km/h wind certified)

3. Cultural Integration

3.1 Design Philosophy

[Insert Image: Unit Design]

• Condensation towers mimic drua canoe masts

• 3D-printed coral-textured components

• Traditional masi pattern facades

3.2 Community Program

• Women’s maintenance cooperatives (70% roles)

• "Dragonfly Clubs" for youth STEM education

4. Financial Model

4.1 Cost Structure

• Base unit: $18,500

 - Condensation core: $6,200

 - Solar array: $4,800

 - Terraces: $3,500

4.2 ROI Analysis

| Year | Water Savings | Crop Revenue | Total Value |

|------|--------------|-------------|------------|

| 3 | $8,760 | $6,400 | $15,160 |

5. Ecological Impact

• Mycoremediation: Oyster mushroom filters

• +300% sea turtle nests (Rewa Delta pilot)

6. Deployment Timeline

[Insert Gantt Chart]

• 2025-2027: 50 units (Viti Levu/Vanua Levu)

• 2028-2030: Floating offshore expansion

7. Testimonials

"Our children now study instead of fetching water."

— Ratu Mara, Rewa Delta Elder

[Insert Company Contact Information]