

# TBP Offshore Vessel Fuel Purchase App Whitepaper

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## Ecosystem Overview

### TBP Global Borderless Neutral Trade and Energy Ecosystem

#### *Building the World's First Neutral Corridor for Global Trade, Energy, Data, Finance & Logistics*

TBP is creating the world's first **borderless digi-physical ecosystem**, the foundation of the next trillion-dollar+ global economy, where trade, energy, data, finance, and logistics converge seamlessly.

At the heart of this ecosystem is **TBP Trade On D Go®**, TBP's proprietary **Nomadic Trade System**. This revolutionary model allows global traders and goods to **trade, produce, process, store, and move seamlessly on an ad hoc basis within TBP's Neutral Corridor**.

Through TBP's neutral hubs—offshore platforms, ports, processing zones, and trade districts—businesses gain the freedom to operate **without geographical, political, or bureaucratic barriers**, while enjoying **integrated logistics and frictionless mobility of goods across the corridor**.

This **Nomadic Trade System** redefines global commerce by enabling “**Business On D Ground—Trade On D Go**,” giving enterprises of all sizes—from SMEs to multinationals—unmatched flexibility to scale, relocate, or expand into new markets with minimal risk. It transforms the Neutral Corridor into the world's first **living, adaptive global marketplace** where neutrality, inclusivity, and sustainability are embedded by design.

## Executive Summary

TBP is building the world's first **Borderless Super-App Ecosystem**, the foundation of the next trillion-dollar+ global economy. The **TBP Offshore Vessel Fuel Purchase App** is the **energy & operations backbone** for bunkering within the Neutral Corridor that connects TBP's offshore refuelling platforms to digital scheduling, payments, and compliance.

By moving fueling offshore (near-shore and along major shipping routes), the app eliminates port congestion, delivers transparent pricing, and embeds environmental compliance. Integrated with TBP FinTech, the Global Energy Purchase & Distribution App, AITR Freight Forwarding, and Shiber, it positions TBP as **the neutral, end-to-end operating system for maritime fueling and logistics**.

## The Problem

Port-based bunkering is slow, opaque, and increasingly misaligned with modern trade:

- **Congestion & Idle Time:** Vessels queue for fuel in busy ports, delaying schedules.
- **Opaque Pricing:** Fragmented brokers, variable quality, and poor price discovery.
- **Limited Fuel Optionality:** Difficult access to LNG, biofuels, and cleaner blends.
- **Compliance Burden:** Manual IMO 2020 checks, fragmented BDN records, weak audit trails.
- **Operational Risk:** Weather, berth constraints, and last-mile inefficiencies.

These constraints raise costs, extend transit times, and hinder decarbonization across fleets.

## The TBP Solution

The **Offshore Vessel Fuel Purchase App** re-architects bunkering as a corridor service:

- **Offshore Fueling Network:** TBP offshore refuelling platforms positioned near-shore and on key shipping lanes worldwide.
- **\*\*Digital Call-Up & Slotting\*\*:** Reserve fueling windows with instant confirmation and reroute options.
- **Fuel Marketplace:** Live availability and dynamic pricing for MGO, LNG, and biofuels.
- **Integrated FinTech:** Multi-currency/ stablecoin settlement, escrow, and smart contracts.
- **Compliance by Design:** Digital Bunker Delivery Note (BDN), automated IMO 2020 checks, tamper-proof records.
- **Navigation & Safety:** Arrival guidance with marine weather, AIS, and corridor advisories.
  
- **Self-Sufficient Fuel Production:** TBP offshore platforms operate as autonomous energy hubs — equipped with **micro-refineries** for fossil fuels and **green hydrogen & ammonia production units** for clean energy. This ensures reliable supply, energy independence, and alignment with global decarbonization targets.

The result: faster turnarounds, predictable costs, lower emissions — at corridor scale.

## Core Value Proposition

- **Speed:** Offshore fueling avoids port queues and berth conflicts.
- **Transparency:** Real-time pricing, supplier performance, and quality attestations.
- **Fuel Choice:** MGO today, LNG/ biofuels tomorrow — with certified blends.
- **Compliance:** Automated BDN/IMO 2020 records and audit trails.
- **Cost Efficiency:** Fleet-level discounts, optimized routing to least-time fueling nodes.
- **Neutrality:** Open, corridor-wide access independent of any single port or flag.

## Features & Capabilities

1. **On-Platform Fuel Production** – Each offshore platform integrates micro-refineries for marine gasoil and green hydrogen/ammonia facilities, enabling direct on-site fuel

availability without reliance on congested port supply chains. Vessel Call-Up Scheduling – Book fueling slots, receive confirmations, minimize idle time.

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3. **Fuel Marketplace** – Live availability & dynamic pricing for MGO, LNG, biofuels.

4. **Integrated Payments** – Secure multi-currency settlement, escrow; blockchain smart contracts.

5. **Vessel Data Integration** – Auto-import vessel class, tank specs, consumption profiles.

6. **Navigation & Safety** – Weather-informed approach guidance; route advisories to platforms.

7. **Compliance Automation** – Digital BDN, automated IMO 2020 checks, immutable records.

8. **Fleet Analytics** – Fuel burn KPIs, carbon intensity (gCO<sub>2</sub>/t-nm), supplier SLAs, benchmarking.

9. **TBP Interoperability** – One Corridor, One Account with TBP FinTech, Global Energy App, AITR, Shiber.

## Technology & Data Engine

- **Mobile & Web:** React Native + Angular clients.

- **Cloud Backend:** AWS/Azure, autoscaling microservices.

- **AI/ML:** Fuel demand forecasting, slot optimization, and anomaly detection.

- **Blockchain:** Smart-contract settlement, BDN notarization, compliance ledger.

- **Data Feeds:** AIS, weather, fuel indices, supplier telemetry.

- **Security:** AES-256 at rest, TLS 1.3 in transit, role-based access, KYC/AML via TBP FinTech.

## Target Customers & Market

- **Vessel Operators & Fleet Managers** seeking predictable, faster bunkering.

- **Shipowners & Charterers** optimizing TCE and emissions performance.

- **Energy Suppliers** (MGO, LNG, biofuels) accessing global demand at corridor nodes.

- **Logistics & 3PLs** aligning fueling with schedule reliability.

A rapidly growing market as fleets diversify fuels and ports face congestion and ESG pressure.

## Monetization Strategy

- **\*\*Transaction Fees\*\*** per fueling operation.

- **\*\*Subscriptions\*\*** for fleet analytics, carbon reporting, and premium support.

- **\*\*Data Insights\*\*** from anonymized utilization and routing patterns.

- **\*\*Supplier Programs\*\*** for preferred placement and performance certification.

## KPIs & Success Metrics

- Average **fueling turnaround time** vs. port baselines.
- **Cost per ton** fueled and price variance reduction.
- **Emission intensity** reduction (gCO<sub>2</sub>/t-nm) from optimized routing/fuels.
- **Platform adoption**: vessels onboarded, MAUs, repeat fueling rate.
- **Compliance completeness**: digital BDN coverage, audit pass rate.

## Implementation Roadmap

**Phase 1 (MVP)**: 3 offshore platforms, MGO marketplace, call-up scheduling, digital BDN.

**Phase 2**: Expand to 10+ platforms; add LNG/ biofuels; FinTech escrow; fleet analytics.

**Phase 3**: 24+ platforms global; advanced AI slotting; smart-contract supplier SLAs; carbon programs.

**Phase 4**: Full Super-App integration; dynamic corridor routing with AITR/Shiber; scale to 50+ nodes.

## Competitive Advantage

- **Digi-Physical Hybrid**: Digital scheduling + physical offshore platforms.
- **Neutral Corridor Access**: Bunkering independent of port congestion and politics.
- **Integrated Compliance**: Smart-contract BDN and automated IMO 2020 audits.
- **Ecosystem Synergy**: Tight coupling with TBP FinTech, Energy Marketplace, AITR, and Shiber.
- **Energy Self-Sufficiency**: Unlike traditional bunkering hubs, TBP platforms produce their own fuels, combining fossil micro-refining with green hydrogen and ammonia.
- **Decarbonization Ready**: Positioned to accelerate adoption of clean fuels with certifications at corridor scale, reducing reliance on fossil-only supply chains.

## Conclusion & Future Vision

The **TBP Offshore Vessel Fuel Purchase App** brings fueling into the Neutral Corridor era — offshore, transparent, compliant, and fast. As a core module of TBP's Borderless Super-App Ecosystem, it aligns operations, energy choice, and finance to deliver lower costs and lower emissions across global fleets.

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