

SOLARIS Pillar C

Strategic Financial Framework

The investment engine driving innovation
at the center of a sustainable future.

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A Global Challenge Requires a Sovereign Solution

The scale of energy poverty outpaces traditional philanthropic and industrial capabilities.

2.1 Billion

People rely daily on open fires, charcoal, or dung for cooking.



2.9 Million

Premature deaths annually from indoor air pollution.

The Manufacturing Limit: Producing and distributing 2 billion solar cookers via centralized gigafactories and standard shipping is physically and logistically impossible due to exploding freight costs and container capacities.

A radical paradigm shift is required. We must stop shipping empty volume and start shipping production capacity.

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PIF
صندوق الاستثمارات العامة
Public Investment Fund

RIYADH - The Connection Hub!

Deploying smart investments from the center of a sustainable future to empower local communities and create sustainable global value.



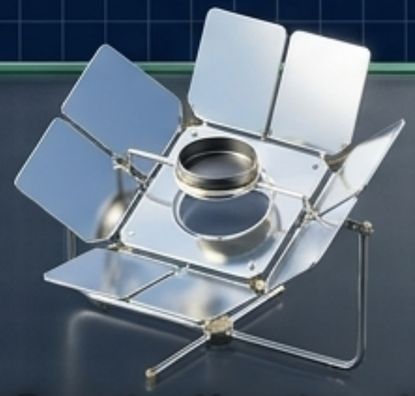


PIF
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The Hub-and-Spoke Production Model

Standardizing global input while hyper-localizing physical output.

Dimension	 Central Factories (Euro-Asia, India-Asia)	 Micro-Factories (Americas, Africa)
Primary Function	High-volume standardized component milling	Agile, last-mile assembly and calibration
Logistical Input	Raw PIF-procured steel & aluminum coils	Pre-milled kits, IoT modules, hardware
Volume Paradox	Eliminates 80% of global freight volume	Translates raw mass into finished cookers
Local Impact	Regional supply chain dominance	Hyper-local job creation and deployment

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Pillar 1: Long-Term Vision

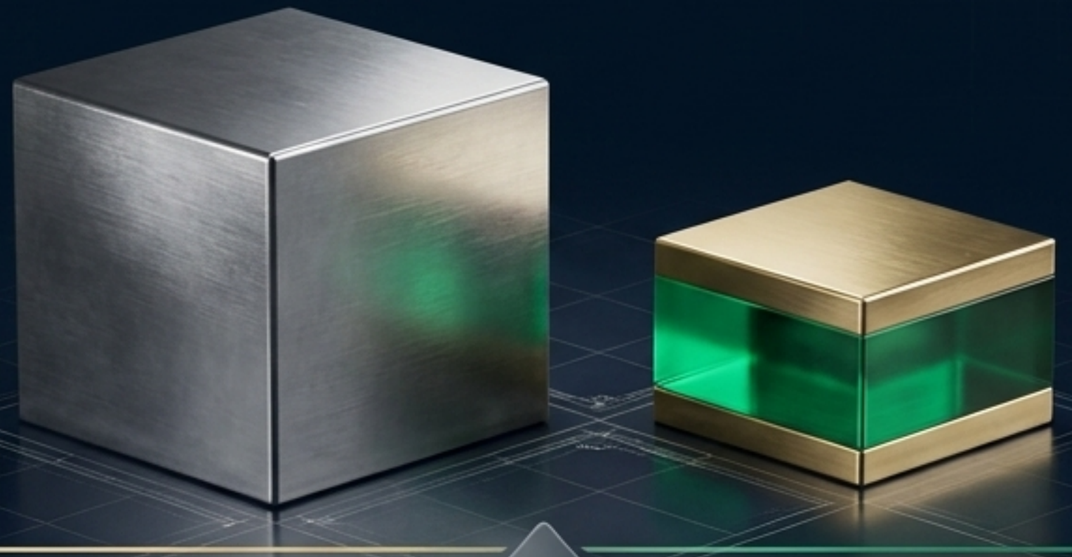
Sustainable investments for lasting impact.

Strategic Proportions within the PIF Context

USD 500+ Billion

Megaproject NEOM

Focuses on national, ultra-modern urban habitats.



USD 70 Billion

Project SOLARIS

Focuses on global hegemony in climate protection and soft power.

Core Insight

Achieving global dominance in the high-impact CO2 certificate market and deploying 2 billion verified cookers requires only 7–8% of the current PIF total assets. Complete refinancing is projected within a conservative 6-12 year amortization window.

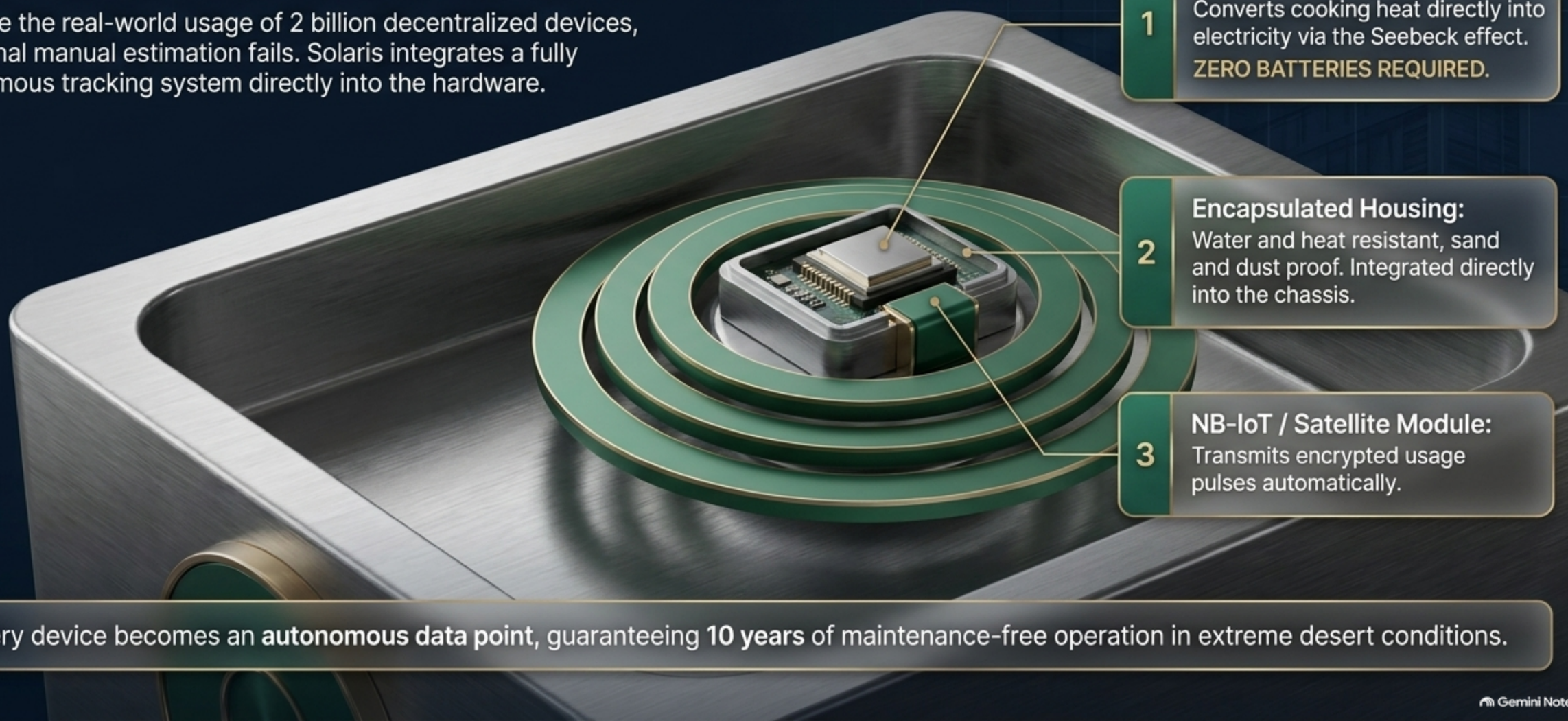
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Pillar 2: Funding Innovation

Supporting breakthrough technologies and decentralized solutions.

The IoT Heart: Maintenance-Free Data Streams

To prove the real-world usage of 2 billion decentralized devices, traditional manual estimation fails. Solaris integrates a fully autonomous tracking system directly into the hardware.



1. **Piezo-Thermosensor:** Converts cooking heat directly into electricity via the Seebeck effect. **ZERO BATTERIES REQUIRED.**
2. **Encapsulated Housing:** Water and heat resistant, sand and dust proof. Integrated directly into the chassis.
3. **NB-IoT / Satellite Module:** Transmits encrypted usage pulses automatically.

Every device becomes an **autonomous data point**, guaranteeing **10 years** of maintenance-free operation in extreme desert conditions.

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Sensor-Verified CO_2 Offsets

The IoT Data Pipeline: From physical heat to sovereign certificate.



1. Heat Source (Proof of Use):
Real-world cooking generates sustained temperatures (>80°C).

2. Piezo-Effect:
Thermosensor converts heat directly into autonomous power.

3. Sensor Activation:
The IoT chip measures exact duration of active use.

4. Data Upload:
NB-IoT / Satellite module sends an encrypted, tamper-proof usage pulse.

5. PIF Green Data Cloud:
Real-time aggregation of global data serves as the incorruptible baseline for Gold Standard/Verra audits.

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Pillar 3: Economic Diversification

Building new sectors and strengthening local value chains.

The Domestic Synergy: Desert Sand Technology (DPMA 10 2026 002 848.5)

The Arabian Peninsula possesses abundant round-grain desert sand, traditionally useless for standard concrete, leading to immense sand import costs for megaprojects like The Line and Trojena.



Microbial Solidification:
The Solaris process makes local desert sand directly usable for construction.

CO2 Fixation:
The process durably binds CO2 in a mineralized state.

Circular Manufacturing:
The decentralized 40-foot container micro-factories deployed for solar cookers double as production hubs for these circular infrastructure building blocks.

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Pillar 4: Global Partnerships

Strategic collaboration with best-in-class partners around the world.

INVESTING CAPITAL. CREATING KNOWLEDGE.

Open Source Hardware Licence (OSHL):

Zero licensing fees. 100% open CAD data and blueprints for global scaling. We do not relocate the product; we relocate the production site.

Local Value Creation:

Production of the final products occurs directly in the target countries, minutes away from the end user.

Peace Investment:

The deployment of 20,000 decentralized container hubs creates 300,000 local industrial jobs in the Global South, training communities as advanced OSE mechanics.



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Pillar 5: Responsible Governance

Highest standards of transparency, accountability, and performance.



The MRV Requirement: Eliminating "Dead" Certificates

Traditional carbon offset projects fail due to manual estimates and massive over-crediting.
A solar cooker sitting unused in a shed does not save the climate.

The Problem



The Solaris Solution



The Solaris Solution:

- **Incorruptible Baseline:** Gapless, tamper-proof Measurement, Reporting & Verification (MRV). Only actual, verified cooking hours generate certificates.
- **SDG Fulfillment:** Actively fights poverty, protects women from foraging hazards, saves forests, and reduces CO2 emissions.
- **Premium Valuation:** Verified "High-Impact SDG Carbon Credits" achieve peak prices on the global carbon market (15–25 USD per ton), driving the $7.4B - $39.4B annual revenue model.

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The Ultimate Soft-Power Monopoly



“Powered by the Sun. Gifted by the People of Saudi Arabia.”

Transforming the Narrative:
Saudi Arabia ascends overnight from an oil state to the greatest humanitarian benefactor in modern history.

Global Brand Presence:
Delivering 2 billion devices means that nearly 25% of the global population will utilize a device bearing Saudi branding every single day.

Unprecedented Loyalty:
Generates priceless emotional loyalty and geopolitical influence across emerging markets, fighting the root causes of migration through genuine local empowerment.

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Investing Today... Shaping a Better Tomorrow

The four core values driving the Solaris Strategic Financial Framework:



1. Sustainability

Eradicating reliance on biomass fuels and embedding circular manufacturing into global infrastructure.



2. Innovation

Pioneering battery-free IoT tracking and advanced desert sand material sciences.



3. Global Impact

Reaching 2.1 billion people and creating 300,000 local jobs across decentralized networks.



4. Long-Term Value

Generating decades of premium carbon credits and unbreakable geopolitical soft power.

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The Climate Checkmate for Vision 2030

This is not a philanthropic concept. This is a precisely calculated, scalable industrial blueprint for immediate execution.

Financially Self-Sustaining

Fully refinanced through MRV-verified carbon trading. 6-12 year amortization for the PIF.



Infrastructure Synergy

Elimination of building material bottlenecks for megaprojects through the Desert Sand Patent.

Geopolitical Dominance

Genuine, measurable climate protection positions Saudi Arabia as the undisputed architect of the global green transformation.

[SYSTEM READY]

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