

Power, Power, Power.

Company with large patent moat and provable pipeline of over \$2.5B in gross revenue in SPV's over 25 years.

Pipeline include a S&P Top 5 company.

Low Land Requirement.



v1.4 | 5.02.2026



Scalable Infrastructure Level Renewable Energy with fast deployment.

Seeking Seed
£5m



HIGH ROI & IRR

EXECUTIVE SUMMARY

What We Do?

EPhoton develops and deploys high-power-density photon harvesting systems that attach directly to existing infrastructure – street poles, lighting networks, telecom towers – delivering decentralised power without the cost and delay of grid build-out.

Why It Matters?

Energy cost is dominated by infrastructure, not by sunlight (Photon)

- Centralised solar is capital-intensive and slow to deploy
- Communities and enterprises need power now, not after grid expansion

Our Advantage



Lower build cost



Higher IRR



Grid-optional Architecture



Faster Deployment



THE REAL PROBLEM

Energy Is Not Expensive Because Solar Is Inefficient.



It is expensive because:

1. Land must be acquired
2. HV/MV grids must be built
3. Substations must be permitted
4. Distribution losses accumulate
5. Timelines stretch to years

The grid, not the panel, is the bottleneck.

WHAT THE MARKET GETS WRONG

Traditional Solar Assumes:

- Centralised generation
- Grid-first economics
- Large land parcels
- Long permitting cycles



Reality:

- Demand is decentralised
- Infrastructure already exists
- Capital is constrained
- Speed matters more than nameplate MW

OUR SOLUTION

Infrastructure Attached Photon Harvesting

ePhoton systems deploy **vertically**, directly onto:

- Street lighting poles
- Distribution poles
- Telecom towers
- Campus lighting networks
- Industrial yards

Result:

- Immediate LV grid connection
- Zero land acquisition
- Minimal planning friction
- Modular scaling

We generate power where infrastructure already exists.



WHY DECENTRALISATION WINS

Decentralised $\neq$ Off-Grid

ePhoton enables:

- Local generation
- Local storage
- Local consumption
- Optional future grid connection

This allows:

- Communities to electrify first
- Utilities to connect later
- Capital to flow incrementally



THE TECHNOLOGY PLATFORM

Photon Harvesting, Not Panel Stacking

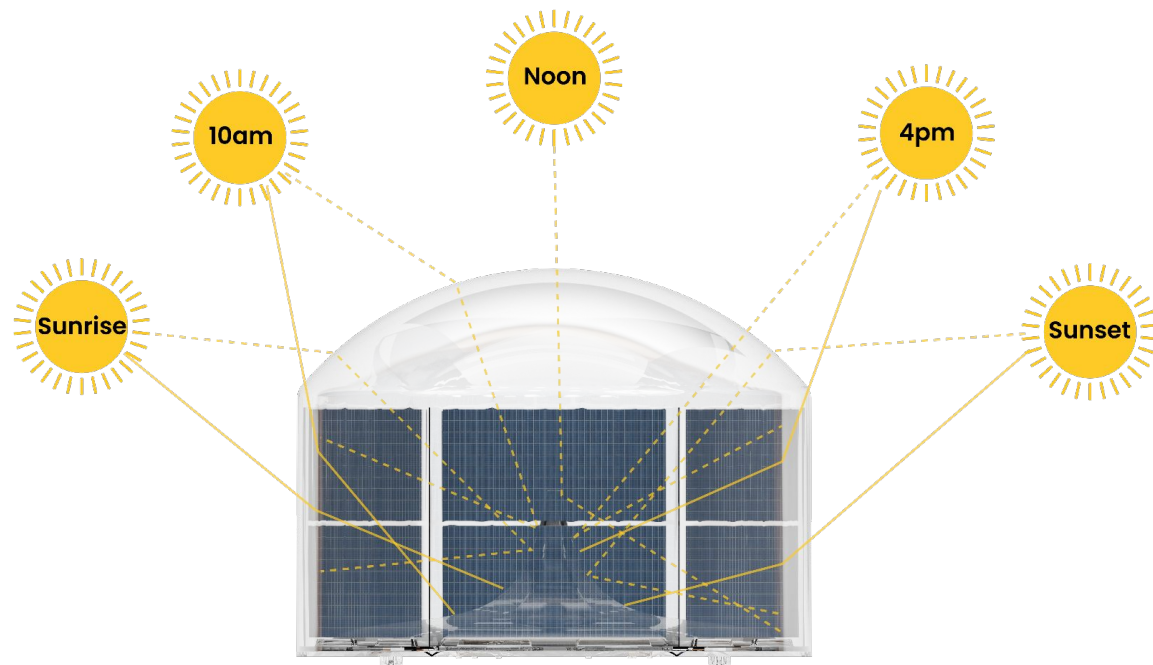
Our patented T.I.P.A. technologies:

Capture photons from multiple angles

Reduce cosine and diurnal losses

Increase energy yield per unit structure

Improve silicon utilisation efficiency



Key Platforms

T.I.P.A. Rosette™

T.I.P.A. Stack™

Nano-Optimisers™

Thinverters™

This is a **system architecture**, not a panel product.

THE PROBLEM

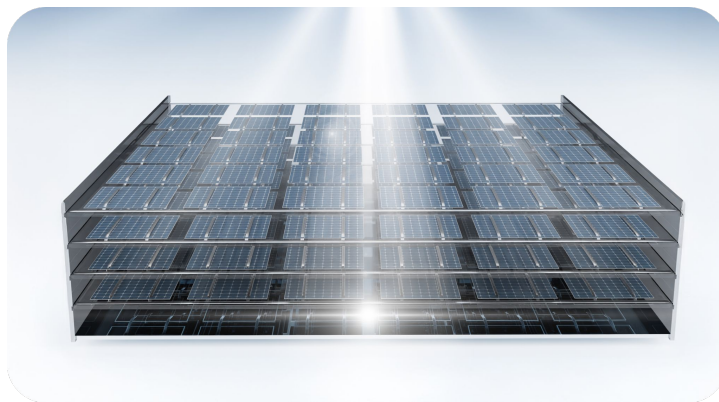
AI and Cloud Computing require Power. Electric Cars Require Power. Global grids cannot cope. Our innovations use localised LV rings in cities and towns and data centres to provide rapid power with proven patented technology.

We harvest photons in a new patented way and this creates more power for less cost.



We reduce power losses in the system with our patented innovations, creating more power for less cost.

We allow IOT monitoring of generation, faults and reduction of power theft and an App based Power as a Service. Pay for what you use. Especially suitable for developing countries.



T.I.P.A. Stack™



T.I.P.A. Rosette™



Thinverters™

POWER DENSITY ADVANTAGE

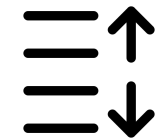
Why Power Density Matters



Infrastructure has fixed footprint



Higher density = More revenue
per asset



Vertical deployment multiplies
usable surface area

ePhoton systems deliver:

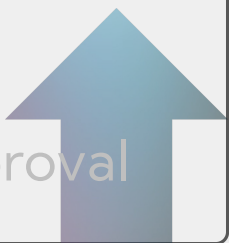
Higher
W per pole



Higher
kWh per site



Higher
Revenue per planning approval



ECONOMICS (WHY CAPITAL CARES)

Structural Cost Advantages

ePhoton avoids:

- Land purchase or lease
- HV/MV distribution
- Grid reinforcement charges
- Substations
- Trenching and wayleaves

Outcome:

Lower capex per delivered kWh

Earlier cash flows

Faster commissioning

Higher project IRR



COMPARATIVE MODEL

Traditional Solar vs ePhoton

Factor	Traditional Solar	ePhoton
Land	Required	Much Lesser
Grid	Mandatory	Optional
Planning	Long	Short
Density	Low	High
Time to Power	18–36 Months	3–6 Months
Capex Risk	High	Low

DEPLOYMENT MODEL

Build Once. Scale Incrementally.

- 01 Attach to existing infrastructure
- 02 Connect to LV network or local storage
- 03 Deliver immediate power
- 04 Expand pole-by-pole
- 05 Connect to grid later if required

This structure is finance friendly and politically resilient.

DEFENSIBLE MOATS

Why This Is Hard To Copy

Patent family covering geometry, optics, & system integration

Infrastructure-anchored deployment model

Capex advantage that compounds at scale

Grid-optional architecture
de-risks projects

Modular systems
Aligned with sovereign and utility finance

This is not commodity solar.

Why ePhoton Wins on Cost

10MW Project Comparison (£5M Scale)

Project-Level Comparison (10MW)

10MW Project	Traditional Solar	ePhoton TIPA
Total CapEx	£6.6M	£5.7M
Land Required	40–50 acres	15–20 acres
Time to Power	18–36 months	3–6 months
Grid Connection	Required	Optional
Energy Generated (25 yr)	268–300 GWh	427–480 GWh

Unit Economics (The Numbers That Scale)

£570

per installed kW
(vs £659 traditional)
14% LOWER

£0.013

per kWh (LCOE)
(vs £0.046 traditional)
70% LOWER

60–80%

more energy yield
(same footprint)
FROM VERTICAL DESIGN

£5M funds a 8–12 MW deployment. These unit economics scale to 50MW, 500MW, and beyond.

COMMERCIAL TRACTION

Active and Emerging Pipeline



Total pipeline: 400+ MW offered (Subject to financing and phased rollout)

WHY NOW

Three Forces Are Converging



ePhoton sits **exactly at this intersection.**

Anchor Projects with T.I.P.A.

1. Zambia – Utility PPA (T.I.P.A. Vertical Farm)

- **Scale:** 50MW front-of-meter PPA with utility.
- **Status:** Contracted; construction planned Q1 2026
- **PPA lens:** 25 yr tenor; tariff indexed 2.5%/yr; energy-based revenue (MWh).
- **Why it matters:** First utility-scale vertical PPA globally; proof for category; Africa entry point.
- **Impact:** Proof for entire vertical farm thesis

3. Google Trials – Singapore & Bangalore

- **Singapore:** 14,000 m² rooftop, 2.7 GWh/year, PPA model
- **Bangalore Ananta:** 148,644 m² campus, 14.2 GWh/year
- **Status:** Proposals submitted, technical reviews underway
- **Significance:** World-class customer validation, opens enterprise market
- **PPA lens:** On-site host PPAs (20–25 yr) with RECs
- **Why it matters:** Tier-1 enterprise validation; opens global C&I channel.

2. Malaysia – MRCB Joint Venture

- **Partner:** Malaysian Resources Corporation Berhad (majority owned by Malaysian Investment Corp)
- **Structure:** 50/50 JV, MRCB+T.I.P.A. Energy Company
- **Model:** Build-Own-Operate renewable energy plants
- **Pipeline:** 500 MW over 5 years: multi-city program.
- **Significance:** Sovereign backing in Southeast Asia with city-scale PPA deployments



Total Secured Pipeline: \$2.5B+ in project value, de-risks late Seed stage significantly. Global pipeline under PPAs (utility, enterprise, municipal) creates recurring, financeable cash flows; geography and off taker diversity de-risks concentration.

BUSINESS MODEL

Revenue Streams

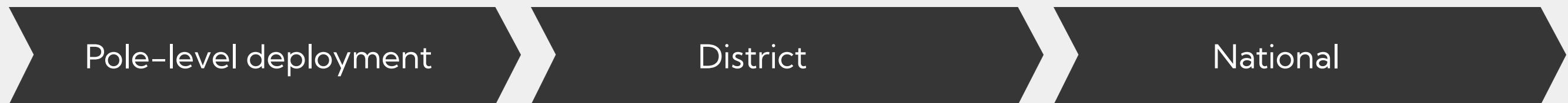
- Project SPVs
- Joint ventures with utilities and governments
- Enterprise and campus deployments
- Long-term O&M and system upgrades

Capital Strategy

- Build-own-operate
- Asset recycling
- Pension-grade infrastructure exits

SCALABILITY

From Single Poles to National Rollouts



Manufacturing scales linearly.

Deployment does not bottleneck on grid.

This allows rapid MW accumulation without systemic risk.

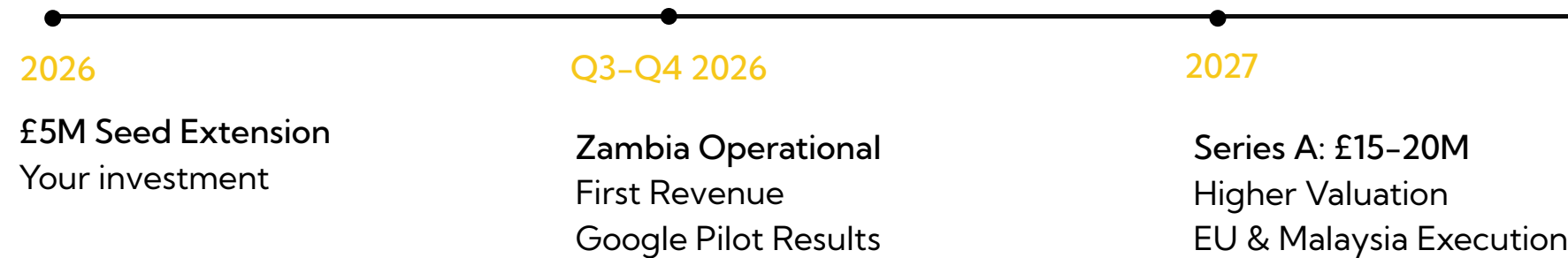
THE INVESTMENT OPPORTUNITY

What We Are Raising For

- Build Zambia 10 MW project
- Set up manufacturing pilot line
- Hire key team members
- Develop Google & Malaysia deals

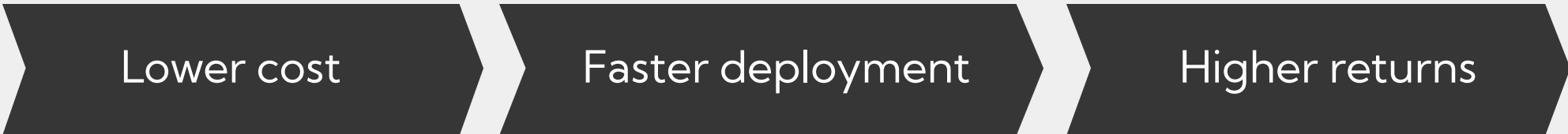
Why Invest Now

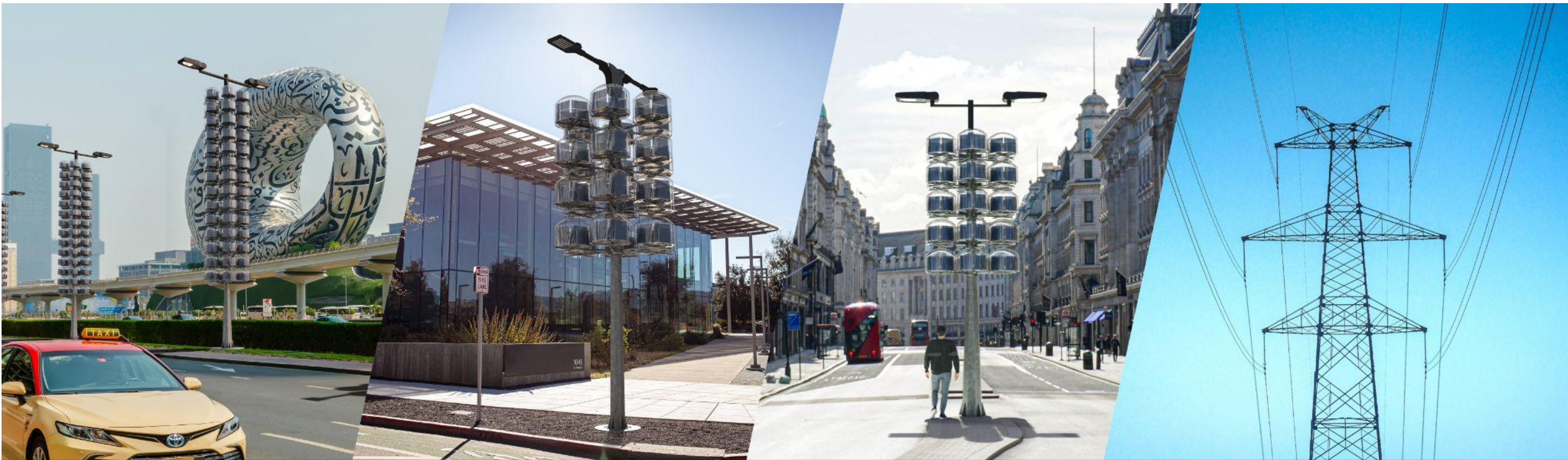
- De-risked technology
- Live pipeline
- Structural cost advantage
- Strong downside protection



ePhoton is not competing with solar developers.

We are competing with grid build-out.





Build power where infrastructure already exists.



ePHOTON

Enhanced Photon Harvesting & Power Technologies Ltd.

www.ephotonenergy.com