

Solar Briefings: White Paper #11

The Value of a Solar: Why 1 Solar = \$136,000

Prepared by The Current-See PBC, Inc.
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I. Executive Summary

This white paper defines and explains the value proposition of a single **Solar**, the fundamental energy-backed unit of the TC-S Network.

Each Solar represents **4,913 kilowatt-hours (kWh)** of Earth's incoming solar energy, calculated on a per-capita basis.

However, unlike conventional currencies tied to fiat or commodities, **Solar is not priced by raw energy cost**. Instead, its value is derived from the **complete cost of making that energy accessible, useful, and economically empowering through an advanced planetary infrastructure**.

Thus, the **target valuation of 1 Solar = \$136,000** is not a speculative figure—it is an expression of the full cost of enabling a self-sustaining, solar-powered basic income system for every human on Earth.

II. Defining a Solar

- **1 Solar** represents the daily share of solar energy received by Earth **per person**, based on:
 - 1% of Global solar input
 - A population baseline of 8.5 billion
 - Daily allocation converted into annualized energy value
 - This equals **4,913 kWh/day** or **~1.79 MWh/year per person**.
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III. Raw Energy vs. Usable Value

At a commercial energy rate of **\$0.18/kWh**, 4,913 kWh yields:

- **Raw Energy Value:**
 $4,913 \times \$0.18 = \884.34 per Solar

But this price reflects only what it would cost to purchase energy through today's centralized, industrial systems—not what it takes to **deliver equitable, decentralized, and autonomous economic empowerment**.

IV. Why 1 Solar = \$136,000

To understand the \$136,000 valuation, we must consider that the value of a Solar is not just a purchase—it's a **global infrastructure stake**.

Components Included in the Full Value:

1. **Infrastructure Deployment:**
 - Global sensor networks
 - Ledger systems
 - Data verification nodes
 - Solar measurement devices
2. **AI Wallet and Distribution Logic:**
 - Personalized accounting
 - Transactional pricing
 - Ethical and situational recommendations
3. **Decentralized Governance:**
 - Token integrity
 - Identity management
 - Network operating costs
4. **Global Basic Income Guarantee:**
 - Designed to be a **post-labor economic foundation**
 - No human effort required to “earn” it
 - It is allocated daily from an abundant natural source
5. **Environmental and Human Rights Value:**
 - Solar is an **abundant, zero-depletion asset**
 - Unlike fossil-backed currency, it aligns with planetary regeneration

The \$136,000 valuation reflects a **~154x multiplier** over the raw energy value of \$884. This represents the capital investment required to make that energy truly empowering across every geography, demographic, and infrastructure level on Earth.

V. Surplus Logic: A Solar Gives More Than You Need

A single Solar provides **13.46 kWh/day**.
The average person only needs:

- ~1 kWh/day to survive
- ~6–8 kWh/day to live comfortably in a modern environment

This means:

- Solar provides **13× survival energy**
- Or **2× modern life energy**, every day

This surplus powers not just subsistence—but progress, storage, gifting, and transformation.

VI. Value Is Abundance-Backed, Not Scarcity-Driven

Unlike currencies based on scarcity (fiat, gold, crypto), Solar is backed by the **most abundant force in our solar system**.

Its value is not what it *costs* to extract energy—it's what it takes to **distribute that energy equitably and intelligently**.

VII. Conclusion

1 Solar = \$136,000

Because it represents:

- A lifetime of energy surplus
- A gateway to a post-labor economy
- A stake in global infrastructure
- And a vote for a future powered by light, not lack