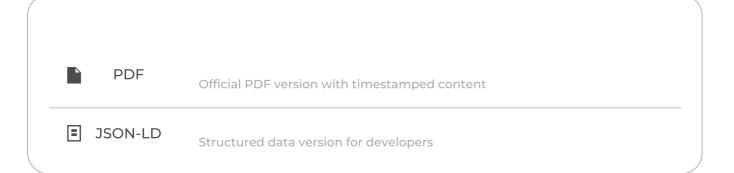
Renewable Energy Security Token Whitepaper



The Renewable Energy Security Token (SDA) is a Solana-based security token enabling global investors to finance and own large-scale renewable energy assets. A transparent three-phase roadmap links on-chain capital formation to real-world deployment:

– Initial Security Token Offering (STO) and DEX listing.

- Company will convert remaining company held tokens (Project
 Development Reserve) into funds for next infrastucure project. Token holders will be
 invited to use this opportunity to become a part of the energy producing company.
 Tokens used as payment for equity will be burned as result. Unconverted tokens shall
 continue to be traded, both token and equity holders shall receive equal dividend
 payments annually from this phase forwards.
- Governance rights via on-chain voting.
- Profit-sharing from operating assets through annual dividends (Phase 3).
- Equity conversion opportunities at phases 2 and 3.



Sustainable Digital Assets is a pioneering project on the frontier of block-chain and real world producing assets. We offer public participation in our vision to create abundant energy through sustainable and clean energy projects. At fist phase we create a participation token, which can later at Phase 2, be converted into an equity position in producing assets with block-chain ownership and finally planned expansion with annual dividends at Phase 3.



- Borderless fund-raising—no geographic silos.
- Real-time ownership registry and transferability.
- Low-cost, auditable governance.
- Real-time ownership ledgers and transferability.
- Partial, auditable governance at low coordination cost.

SDA follows a progressive compliance path, starting with a private STO in Nevis and advancing to full EU MiFID II security-token status at Phase 2, while mirroring U.S. Reg D/Reg S requirements.

- Phase 1 Public Participatory Token Offering (Sustainable Digital Assets Inc., Nevis);
 KYC/AML optional: unrestricted P2P transfer.
- Phase 2 Convertible Security Token (Sustainable Digital Assets Oy, Finland); EU
 Prospectus & MiFID II licence; mandatory KYC/AML; regulated custody whitelist.
- Tokens confer no equity until holders opt-in during conversion windows.
- Company starts working towards European MiFID II requirements in Phase 2.
- Legal base: Nevis legislation; Smart-contract auditor: To be announced



Comprehensive blockchain platform with integrated technical components.

- Solana blockchain (>2 000 TPS, sub-second finality, < USD 0.001 fees)
- Smart-contract suite: capped-supply mint, vesting, dividend vault, governance, conversion registry.
- All optimisation engine for bidding, load forecasting and battery dispatch.
- ESG oracle publishing on-chain CO₂-avoided proofs.
- Investor portal with wallet-connect and KPI dashboard



Stateless Solana programs enforce a 100 M supply cap, time-based vesting and automatic stage-gate logic. Hardware-signing multi-sig governs upgrades; ISO 27001 processes and quarterly pen-tests mitigate cyber risk.

- Core contracts secure supply cap (100 M), vesting, and stage-gate logic
- Integration layer connects with ISO/RTO markets and bilateral PPA platforms.
- Security hardware-signing by multi-sig board; quarterly penetration tests; ISO 27001 processes.
- Scalability stateless program design allows >1 M holders without re-deployment.

Token

Fixed 100 million supply; no emissions or burns outside the published schedule.

- Token Name Renewable Energy Security Token
- Symbol SDA
- Standard SOI
- Initial Price USD 1.00
- Distribution
 - 40 % Public Sale
 - 40 % Development Reserve (released 50 % at each of Phases 2 & 3)
 - 10 % Team (18-month lock)
 - 5 % Advisors (vesting TBD)
 - 5 % Legal & Ops
- Utility
 - On-chain governance
 - Profit-sharing
 - Equity conversion option
 - Community benefits access
- Smart-contract audits TBA
- Public sale (Phase 1): 40 M tokens (40 %), no vesting.
- Project-development reserve: 40 M tokens (40 %), 50 % released at each of Phases 2 &
 3.
- Founding team: 10 M tokens (10 %), 18-month lock then 12-month linear vest.
- Advisors & partners: 5 M tokens (5 %), vesting schedule TBD (board approval).
- Legal & operations: 5 M tokens (5 %), released as incurred (board-approved)
- Phase 2 Sell 20 M reserve tokens; proceeds + senior debt (≤60 % LTV) deploy up to USD 100 M.
- Phase 3 Sell remaining 20 M reserve tokens under same leverage caps; unsold tokens after 24 months may be burnt.
- Economic flows Revenue from PPAs, merchant sales, grid services, credits; target
 ≥65 % EBITDA; 70 % FCF as on-chain dividends post-COD.
- Fund Allocation (Phase 1 proceeds) Project investments 70 %, operating expenses 15
 %, legal & compliance 10 %, marketing & community 5 %.
- Pre-sale rounds: Round 1 (up to 10% supply, 50% discount, €0.50 each) | Round 2 (up to 10% supply, 35% discount, €0.65 each) | Round 3 (remaining up to 20% supply, 20% discount, €0.80 each)

Token

appreciation in the secondary market will enable the project to reach a 100 million market cap that triggers transition to Phase 2.

- Liquidity Allocation (DEX) USD 100,000 to USD 200,000 from Phase 1 capital raise reserved for initial liquidity on DEX platforms.
- Phase 1 public sale: 20M tokens (20% total supply).



From Phase 2 onward the parent company Sustainable Digital Assets Corporation (based in Nevis) converts token capital into tangible assets and from Phase 3 onward distributes returns; project pipeline spans solar, wind, energy storage and nascent green-tech.



Sector allocation targets diversified, high-impact assets,

- Solar utility-scale, commercial roofs, community gardens
- Wind onshore, offshore, distributed micro-wind
- Storage battery, pumped-hydro, thermal
- Emerging Tech green hydrogen, biofuels, grid digitalisation

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- Projected IRR exceeding 15 %.
- Clear path to regulatory approval
- Scalable technology with proven implementation.
- Strong local partnerships.
- Environmental & social-governance alignment.

- Phase I Token Issuance & DEX Listing
 - Public sale 40 % supply on website & DEX.
 - Reg-light participation token; quarterly reporting.
- Phase 2 \$100 M Market-Cap Gate
 - Sell 20 M reserve tokens; debt ≤60 % LTV finances up to \$100 M assets.
 - First equity-conversion window; MiFID II & CEX listing.
- Phase 3 Portfolio Expansion
 - Sell remaining 20 M reserve; second conversion window.
 - Scale to >500 GWh annual generation



Pre-sale funds (minimum €275k target has to be met in order to proceed) will be used to create the legal structures needed for the project to advance through Phases I to 3 and to finance project development. In particular an alternative investment fund (AIF) will be established for administering the capital and directing it into productive sustainable energy and infrastructure projects. Until the physical construction of sustainable energy projects starts the funds shall be deposited into energy funds and government bonds through open financial market and derivative operations. In Phase Two funds shall be directed into the construction of producing sustainable energy assets and finally in Phase Three the operations are further expanded and dividend payments are initiated from the sales of energy produced by the assets the company now owns and operates.

- Phase-1 proceeds fund project origination, permits, and early-stage equity.
- Phase-2/3 proceeds + debt finance construction (capex ≈ USD 1.0-1.2 M/MW solar; USD 1.3-1.5 M/MW wind).
- Target portfolio 150 MW solar, 120 MW wind, 80 MWh storage by 2028.
- IRR sensitivity base 16 %; –200 bps if PPA price falls 10 %; +300 bps with carbon-credit upside.
- Reporting audited IFRS financials & asset-level dashboards every quarter.



- Q3 2025 MiFID II licence application; token re-licensing; DEX listing; Public STO (30 M tokens).
- Q4 2025 First project SPVs signed; First asset NTP*; governance portal v1; audited Q4 report.
- Q1 2026 COD* for 10 MW pilot solar plant; profit-share begins; market-cap oracle live.
- Phase 2 Trigger when 30-day VWAP ≥ USD 100 M; reserve sale 1 (20 M); CEX listing application; debt term sheet.
- 2026-2027 Build to 250 GWh annual generation; open first equity-conversion window.
- Phase 3 Second reserve sale; scale to 500 GWh; second conversion window; portfolio scaling.
- 2028 Steady-state dividend programme; explore new jurisdictions.

*NTP = Notice to Proceed: COD = Commercial Operation Date.



Token can be used to purchase shares of the producing company, with conversion rate 1:1, in order to become a direct co-owner in the producing real world energy assets. When token is used to convert into equity the token is burned, thus reducing the supply of tokens circulating in the market place. Both owners of tokens and shares in the company are eligible for dividends of the producing assets at Phase 3 of the project.

- Conversion windows specific periods announced at each phase.
- Minimum holdings no minimum amount required for conversion
- Verification KYC/AML and investor-accreditation checks prior to conversion.
- Tax implications detailed guidance provided during each window.
- Remaining tokens unconverted tokens keep all original rights and remain tradable.



On-Chain governance with transparent voting process.

Voting weight: 1 token = 1 vote

Token

- Distribution of Dividends vs Compounding Investments for Growth
- Director Elections
- General Policy Issues
- Other issues presented by Directors or requested by Token holders
- Process:
 - Proposal posted
 - 30 days discussion
 - OnChain vote (voting open 48 hours)
- Delegation: Token holders may delegate votes to accredited stewards



5 % of supply reserved for community initiatives. Community council publishes quarterly spending reports and KPIs (wallet growth, engagement score).

- Liquidity mining early DEX LP incentives
- Bug-bounty rewards up to USD 250 k.
- Educational grants renewable-tech hackathons & university research.



Dual smart-contract audits, formal verification, treasury diversification and all-risk insurance combine with layered cyber-defence.

- Smart-contract audits two independent firms + formal-verification tooling.
- Treasury policy Idle funds (i.e. before construction of physical projects) shall be deposited into energy funds and government bonds through open financial market and derivative operations.
- Insurance construction all-risk, cyber cover, and D&O liability.
- Operational controls SCADA segmentation, zero-trust VPN, incident-response playbook.

Token

Token capital unlocks a pipeline of high-yield, climate-positive projects.

- Utility-scale solar farms (≥50 MWp).
- Commercial rooftop solar installations.
- Community solar gardens.
- Onshore wind clusters (20-150 MW).
- Offshore wind developments
- Battery storage (≥50 MWh) co-located or standalone.
- Pumped-hydro and thermal-energy storage.
- Green hydrogen pilots powering heavy transport hubs.
- Advanced bio-fuels & next-gen grid technologies.
- Grid-service aggregation frequency & demand response via Al Stack.



Bank debt ≤60 % LTV amplifies equity while capping downside; lender DD provides external validation; project-finance structures ring-fence risk.

- Expanded project capacity enables up to USD 100 M of assets.
- Institutional validation bank participation adds due-diligence layer.
- Optimal capital structure balances equity and debt for better returns.
- Accelerated growth faster deployment into revenue-generating assets.
- Risk management project-specific financing isolates individual risks
- Decision factors prevailing interest rates, project pipeline quality, individual project risk, company cash-flow position.



Comprehensive disclosure of regulatory, market, technology, construction, leverage, dilution and liquidity risks. Full matrix available in Appendix A.

Regulatory – security-token regimes may tighten; mitigation: multi-jurisdictional legal
 counsel.

- Construction delay/cost overrun; EPC fixed-price contracts.
- Leverage debt amplifies downside; LTV cap ≤ 60 %.
- Dilution reserve sales; transparent schedule + optional burn.
- · Liquidity exchange-listing risk; multiple venues, market-making budget.
- Conversion tax/legal complexity; dedicated help-desk, advance guidance
- Cybersecurity grid or treasury attack; layered defence, insurance
- Market-cap milestone delay/failure to reach USD 100 M postpones Phase 2 mitigation: transparent progress reporting & market-maker support.
- Exchange-listing no guarantee of CEX acceptance/continuity; mitigation: multi-venue strategy & ongoing compliance audits.



SDA bridges digital capital and tangible climate impact, offering phased liquidity, optional equity upside and a credible path to >500 GWh of annual clean generation by 2028



inventor on three international patents covering data-communication and RF networking.

- CFO Antti Jussila, MSc. Econ. Chief Strategy Officer responsible for administrative, legal, and real-world sustainable energy project development. Multi-decade background in financial sector as capital manager and trader. 10 years experience developing energy, mining and infrastructure projects as CEO of his Colombia-based company.
- CXO Robert Ramstedt. Chief Experience Officer responsible for marketing and public relations.



- Measurement Tons of CO₂ avoided, jobs created, community-benefit-fund spend.
- Reporting real-time dashboard; annual assurance by accredited ESG auditor.
- Alignment UN SDGs 7, 9, 13.
- Community fund –1 % of net profit earmarked for local education & retraining.



- Appendix A Detailed Risk Disclosure.
- Appendix B Smart-Contract Technical Specification.
- Appendix C Financial Model Assumptions & Sensitivities.
- Appendix D Legal Opinions & Regulatory Maps.
- Appendix E ESG Methodology.