





Solarnity Transact in Trust



Supply Chain





What's Brewing?

Dark Roast

Solarnity will utilize distributed ledger technology to improve buyer-supplier payment processes by significantly reducing, and eventually eliminating, the use of bank guarantees, letters of credit, bank performance bonds and related third party trade finance instruments utilized extensively in cross border supply chain transactions.

Medium Blend

Solarnity will disrupt the SME supply chain for the procurement of equipment, materials, supplies, services and spare parts needed in such cross border energy projects, commissioning / operating industrial plants and a wide variety of projects that expand international borders.

Light Breakfast

Solarnity will allow SME cost reduction, efficiency improvements and on-time delivery that will reduce the cost-to-serve for each transaction while increasing customer satisfaction, transparency and market share.

The Players

Vendors. Businesses seeking to sell equipment, materials or supplies to cross-border entities will upload key features of its products onto the Solarnity platform. Vendors will be encouraged to ensure their stock is equipped with Internet of Things ("IoT") connected devices for real time tracking and monitoring on the Solarnity platform

Buyers. Businesses seeking to procure equipment, materials or supplies from vendors located in various cross-border locations. Buyers will identify original equipment manufacturers (OEM's), vendors and suppliers to procure equipment, spare parts or materials. Buyers will upload key details for Smart Contract development to be negotiated conditions set with the Vendor.

Smart Contracts

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- ✓ Unique to each transaction
- Tailored terms and conditions including built-in dispute resolution code
- Multi-sig features for contracts w/ different release dates for multiple addresses (ie. Originator seeks to ship to multiple sites)
- Hash tags and time stamp operation will verify authenticity of digitized uploads (custom clearance certificates, delivery notes, OEM manuals, warranty)

At contract termination, SU-Token converted back to fiat currency & destroyed

What's in the Code?

Solarnity Tokens

Main token ("S-Token") utilizes the Ethereum ERC20 token protocol

721 protocol

Exchange with any crypto currency at market rate

Fee payment & incentivize miners to store/retrieve data

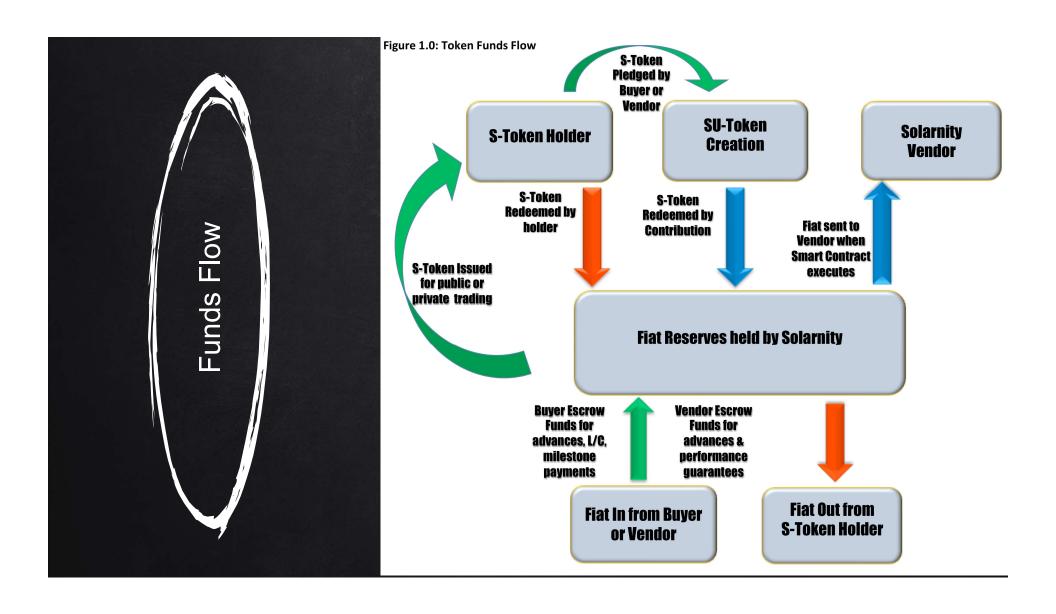
Utility token ("SU-Token") under the Ethereum ERC-

SU-Token required to ensure adherance to Smart Contract terms / conditions

Convertible (& pegged) to a Tether currency (USD). Exists on sidechain and not traded on main BlockChain

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Typical Supply Chain transaction

The case study compares a typical transaction on the Solarnity platform:

Figure 2.0 | Key metrics of typical procure to pay cycle

Figure 2.1 | Key metrics for the Buyer

Figure 2.2 | Key metrics for the Vendor/Supplier

Figure 2.0: Key metrics from a typical cross-border transaction | Order of specialized equipment from Germany to Qatar

		Typical	Solar	nity	
Value of transaction (USD equivalent)	\$	500,000	\$	500,000	
Procure to pay cycle					
Contracting time from order generation to invoicing (including bank guarantee arrangement)	1	- 2 months	1-2 w	eeks	
Manufacturing / delivery time		to 6 months	up to 6 months		
Tokenization fee (from 0.1% to 0.5% of contract value)		Nil	\$500 to	\$2500	
Working capital costs (both parties)	\$	40,000	Negot	tiable	
Bank guarantee costs (both parties)	\$	4,700	Ni	1	
Legal fees (both parties)	\$	10,000	Ni	1	
Total funds ring-fenced before product delivery	\$	750,000	Negot	iable	

Typical Supply Chain transaction

(continued)

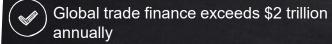
Figure	2.1:	Buyer	key	metrics

	Typical	Solarnity
BUYER Cost of working capital: assume 6 months @8% APR	\$ 20,000	Negotiable
Advance payment (50%) Balance payment (50%); upon	\$ 250,000	P2P negotiable
completion of manufacturing but before delivery	\$ 250,000	Negotiable
Legal advisers to review terms and conditions of ABG & BPG	\$ 5,000	Nil

Figure 2.2: Vendor key metrics					
		Typical	Solarnity		
VENDOR/SUPPLIER Cost of working capital: assume 6 months @8% APR	\$	20,000	Negotiable		
Advance bank guarantee (ABG)					
Duration	6	months	Negotiable		
Equivalent to Buyer advance	\$	250,000	Negotiable		
Funds held with 3rd party bank		Yes	No		
Monthly fee (as a %)		0.250%	Nil		
6-month fee (amount)	\$	3,750	Nil		
Legal advisers	\$	5,000	Nil		
Bank performance guarantee (BPG)					
Duration		18 months	Negotiable		
Amount (10%)	\$	50,000	Negotiable		
Funds held in trust		No	No		
Monthly fee (as a %)		0.163%	Nil		
Annual fee (amount)	\$	976	Nil		
Legal advisers		Depends	Nil		

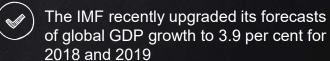
The Addressable Market





- MENA population exceeds 430 million; 2016 GDP was \$3.1 trillion
 - China & US rank 1st and 2nd in global manufacturing w/ combined annual output nearly \$4 trillion





Robust performance in Euro area set to continue in 2018 and 2019 with growth of 2.3% and 2.0% respectively

Solarnity's Pie Slice

Illustrative samples represent actual or planned costs (in US dollars) of constructing major industrial & infrastructure projects. Solarnity potential share of Supply Chain transactions and token fees conservatively low

		Gross Costs	ss Costs Equipment / Machinery only			So	Solarnity Platform				
		100%	As as %		In US Dollars	Oı	nboard 0.1%	Fee	Revenue	Fee	Revenue
		100%	AS as 70		III O3 Dollars		to 20%		0.01%		0.05%
Wheatstone LNG Off-shore; Western Australia (8.9 metric tonnes)	\$ 2	22,308,000,000	40%	\$	8,923,200,000	\$	89,232,000	\$	89,232	\$	446,160
Power generation Greenfield install gas plant 1.4GW capacity (Iraq)	\$	1,000,000,000	40%	\$	400,000,000	\$	20,000,000	\$	20,000	\$	100,000
Polysilicon plant 20,000 metric tonne/year (South Korea)	\$	750,000,000	40%	\$	300,000,000	\$	60,000,000	\$	60,000	\$	300,000
Oil Refinery and tank farm 3500MT/day (UAE)	\$	656,250,000	40%	\$	262,500,000	\$	52,500,000	\$	52,500	\$	262,500
Construction waste to energy plant 2000 tonnes of waste / day	\$	615,000,000	40%	\$	246,000,000	\$	49,200,000	\$	49,200	\$	246,000
65MW power (UAE)											
Oil & Gas platform (offshore Black Sea, Turkey)	\$	250,000,000	40%	\$	100,000,000	\$	20,000,000	\$	20,000	\$	100,000
Power generation Brownfield refurbish small plant 22MW capacity	\$	150,000,000	40%	\$	60,000,000	\$	12,000,000	\$	12,000	\$	60,000
Residential housing compound 200 villas (Dubai)	\$	100,000,000	35%	\$	35,000,000	\$	7,000,000	\$	7,000	\$	35,000
Oil Refinery and tank farm 250MT/day (Morocco)	\$	37,500,000	40%	\$	15,000,000	\$	3,000,000	\$	3,000	\$	15,000
Container ship 60000 dwt bulk carrier (Japan)	\$	33,500,000	40%	\$	13,400,000	\$	2,680,000	\$	2,680	\$	13,400
Primary / Secondary School campus 21000 m3 (UAE)	\$	30,000,000	35%	\$	10,500,000	\$	2,100,000	\$	2,100	\$	10,500
Solar farm (24MW in Kitsuki, Japan - install cost of \$1.10 / watt)	\$	26,400,000	50%	\$	13,200,000	\$	2,640,000	\$	2,640	\$	13,200
Drilling of exploration oil well in Egypt (2500 meters)	\$	11,500,000	40%	\$	4,600,000	\$	920,000	\$	920	\$	4,600

Comparative Analysis

		SHIPCHAIN	Waltenchain	* Sweetbridge	
	Solarnity	ShipChain	WaltonChain	Sweetbridge	OriginTrail
Blockchain to drive platform	(Mark)		(Market)		
Vendor and Buyer driven platform		×	×	×	X
Smart Contracts drive transactions		X	X	X	X
Working Capital funding available	TBD	×	X		×
Bank guarantees eliminated		×	×	X	×
Decentralized file storage solution	TBD	TBD	TBD	TBD	TBD
IT solution for supply chain applications	X			X	



MVP

CTO / Tech Advisor to write core smart contract code and token development stored in GitHub repo for minimum viable product (MVP)

Seed Funding

MVP demo uploaded to website with basic wireframes to walkthrough typical transaction with BlockChain-focused VC's

Alpha / Beta

Programming, testing & going live w/ WebApp & mobile application including Alpha tests, stability tests, market and user analysis. Beta phase transition to product launch



Alex Berson
New York,
USA

The Advisors

Alex is an expert in cyber security and cloud computing.
Alex held key positions in JPMorgan Chase, BearingPoint, Merrill Lynch, PWC, and Solomon Smith Barney

Max von Romatowski (Singapore)

Bruce Gaston (UK)

Max has been
Managing Director of
SolarWorld Asia
Pacific since 2007,
Max holds a Bachelor
of Law degree from
University of Hamburg
and an MBA from
ESCP-EAP

Bruce is CFO/Director of Darmen Technology & Solutions (US) and a strategic adviser to Blockex during their recently completed \$30m ICO Boris Grozev Dubai. UAE

Boris is Bloomberg Country Head, in Dubai. Boris has a Masters in International Management from the University of Strathclyde in Glasgow, Scotland.

The Advisors / cont.

Stephen Polakoff Legal Adviser

Legal adviser to
decentralized
shopping platform
with planned €1520m ICO. Lead
counsel for UAE
property group and a
listed Russian oil
field services
company

BlockChain & ICO specialist (under NDA)

Lead developer for ICO candidate with nearly 20 years of software development; includes 2 years programming Solidity smart contracts