Green Assets Wallet 绿色资产钱包

Phase one recap and phase two plans

第一阶段总结和第二阶段计划



Green bond issuance

Barriers	Opportunities		
For issuers	For issuers		
- Administration	+ Automatisation		
- Increased costs	+ Lower costs		
For investors	For investors		
- Time consuming	+ Efficient aggregation		
- Trust in issuers needed	+ Accessible and trusted information		
For the market	For the market		
- Avoided green issuance	+ Increased volume and diversity		
- Developed market bias	+ Increased capital to green investments		



Blockchain basics

- Distributed network no centre
- Immutable data store
- A way of ensuring that all the data stores remain in sync
- A way of checking that committed transactions meet validity requirements
- Really good for recording shared information securely and transparently





Green bonds introduce additional *conditions* to the traditional relationship between issuer and investor

The Green Assets Wallet platform *tracks* those conditions, *records* their fulfillment, and by doing so *strengthens* the relationship





Architecture

- Web apps for accessing the platform
- Signing architecture is centralised but transparent and with a clear upgrade path
- Postchain network made up of stakeholders in the green finance industry



Action diagram

- 1. Admin creates issuer/validator
- 2. Issuer creates framework
- 3. Issuer creates bonds
- 4. Issuer creates projects
- 5. Bonds and projects *must* have a pool
- 6. Issuer or certifier creates an impact report for a project
- 7. Issuer creates a validation report for a project
- 8. Validator validates validation report



Phase 2 goals

- More decentralised architecture
- Better APIs for ecosystem development
- More sophisticated impact statistics
- Better standards for impact reporting
- Better UX
- Consortium expansion -- public platform?
- Versioning, track record, and transparency



More decentralised, better ecosystem, direct signing

- Local private key storage
- Ecosystem of service providers
- Integrations with existing IT systems for batch transactions, automation
- Automated data input



Move to public?

- Ease of use
- Built in economic hosting incentives
- (Theoretically) better security
- Global scalability
- Cutting edge
- Better admin UX

Chromapolis

Track record, versioning, transparency

- Implement row versioning in Postchain
- Design a visual metaphor for versioned information
- Expose the track record of issuer and validator actors to investors in an intuitive way
- More intensive UI/UX design

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About impact 关于影响力



Impact reporting



Bond





Baselines and reporting standards?



How to achieve transparency? Applying a grid factor



Vasakronan



@ vasakronan.se

FRAMEWORK

Green Commitments

New construction and major renovation of buildings owned and managed by subsidiaries of Vasakronan that have an energy performance at least 25 percent below the current building regulation (Swedish BBR code) and that have or will receive a certification of either LEED New Construction or Core and Shell (minimum certification level "Platinum"), or BREEAM-SE (minimum certification level "Outstanding")

Existing buildings owned and managed by subsidiaries of Vasakronan that have an energy performance under 100 kWh/sigm and either have a certification from the construction phase (as stated in section 1 above) that is not older than ten years or have received a LEED Existing Buildings:Operations and Maintenance certification (minimum certification level "gold").

Proceeds from the Vasakronan Green Bonds will not be used to finance any fossil or nuclear power projects.

Files

Sustainable Development Goals



Use of Proceeds Category Energy efficiency Clean transportation Sustainable water management Climate change adaptation Eco-efficient products, production technologies and processes

Impact Report Report does not exist

Latest report submission by Vasakronan 2018-10-17 Reporting on 1 projects Out of 4 projects total (25%) Energy Emission Energy Generation Avoidance Consumption 0 kWh 0 t/CO2e 0 kWh Bonds Project VOLUME Vasakronan 18-11-2014 + 500000000 SEK add to portfolio SE0006452553 18-11-2019 Vasakronan 14-02-2017 490000000 SEK add to portfolio + SE0009607013 28-08-2019 Vasakronan 24-10-2016 100000000 SEK add to portfolio + SE0009241425 24-04-2019 Vasakronan 19-03-2014 500000000 SEK add to portfolio +SE0005798816 19-03-2019 Vasakronan 19-03-2014 750000000 SEK add to portfolio + SE0005798824 19-03-2019

FRAMEWORK IMPACT

All Years

PROJECT Large Scale Solar Photovoltaic Power Plant

PROJECT DESCRIPTION

ABOUT THE PROJECT

50 MWac Construction - Build, Operate & Own for 21 years under a Power Purchase Agreement with the national electricity provider Tenaga Nasional Berhad. Constructed in the district of Gambang in the State of Pahang, Malaysia

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Green Bond Framework

REGION

Asia

BONDS

ISIN	ISSUER	ISSUE DATE	MATURITY DATE	ISSUE VOLUME
MYB\U1801732	Universiti Teknologi MARA (UiTM)	2018-04-27	2024-04-26	10000000 MYR
MYBVI1801742	Universiti Teknologi MARA (UiTM)	2018-04-27	2023-04-27	10000000 MYR
MYBVH1801751	Universiti Teknologi MARA (UiTM)	2018-04-27	2022-04-27	1000 EUR
MYBVG1801761	Universiti Teknologi MARA (UiTM)	2018-04-27	2021-04-27	10000000 MYR
MYBVF1801771	Universiti Teknologi MARA (UiTM)	2018-04-27	2020-04-27	10000000 MYR

PROJECT VALIDATION

GREEN COMMITMENT	NAME	STATUS
The Construction, Commissioning and Operation of a Solar Research Center on the premise for the conduct of academic	Satellite verification of construction	 Validated
research, training and R & D for Solar Power and Renewable	VALIDATOR	DOCUMENTS
Energy	Geografiska	validation_gib_bef
DESCRIPTION	Informationsbyrån	validation_gib_aft
GIB to provide verification of construction by means of satellite		
images of the site taken over several years.		

MY IMPACT





Image of solar installation site, 2017-10-07. 太阳能安置场地2017 Image courtesy of Planet Labs, Inc. 年10月7日影像 Image of solar installation site, 2018-10-02.太阳能安置场地 Image courtesy of Planet Labs, Inc. 2018.10.2影像

