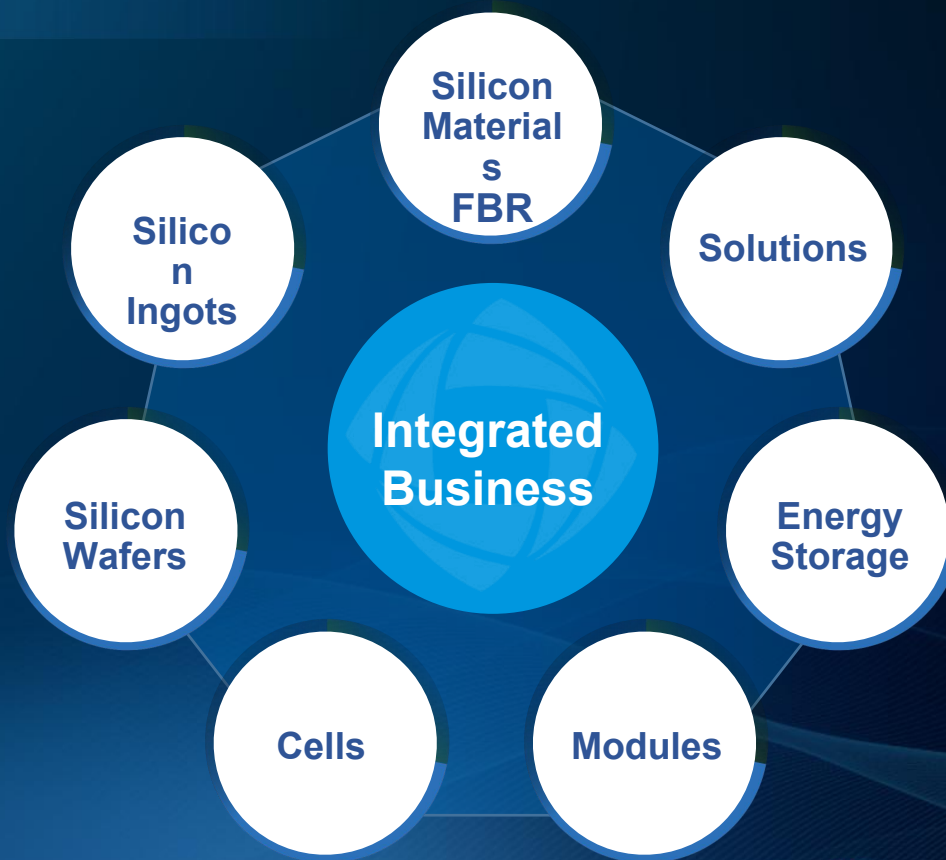


The background is a deep blue with abstract, flowing lines. On the left, there is a large, glowing blue sphere with a ring system, resembling a planet like Saturn. Several smaller blue spheres are scattered around it. The overall aesthetic is futuristic and technological.

GCL

INNOVATING THE FUTURE:

EFFICIENCY, CARBON REDUCTION
& TRACEABILITY



GCL TECH
(03800.HK)

A global leading developer and smart manufacturer of high-efficiency PV materials

GCL SI
(002506.SZ)

World leading One-stop PV + Storage Service Provider

Fully Vertically Integrated Value Chain



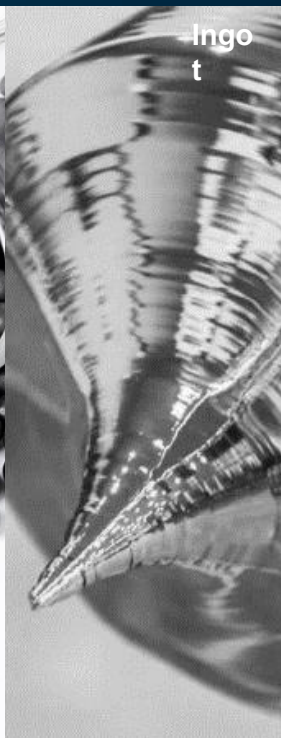
All Covered by Us!



Inner Mongolia



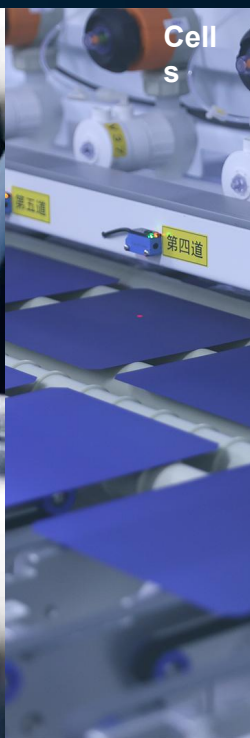
Inner Mongolia



Jiangsu, Ningxia



Jiangsu



Anhui



Anhui

Capacity Layout



Module
30GW

60GW by the end of
2025

N-type Cell
20GW

40GW by the end of
2025

Silicon Wafer
58.5GW

FBR Silicon
420,000t
200GW

GCL SI Hefei
Module



GCL SI Funing
Module



GCL SI Wuhu
Cell



GCL SI Baotou
FBR Silicon



Operational Growth of GCL SI 2024Q3



OPERATING INCOME

\$ 1.68+ Billion



NET INCOME

attributed to shareholders

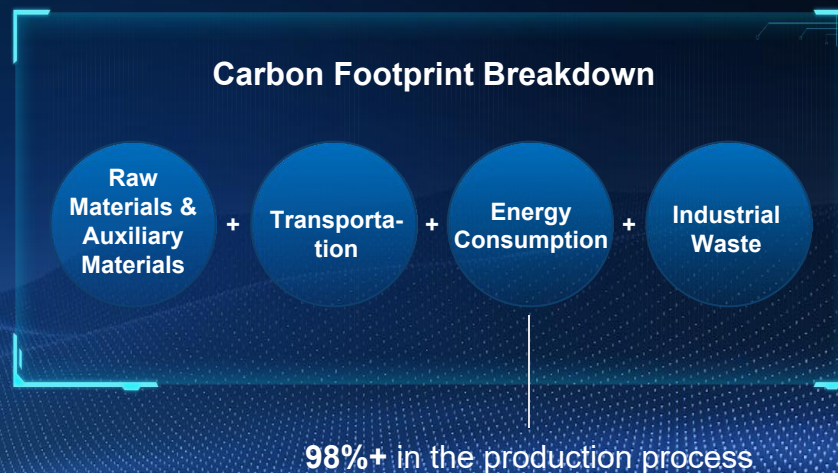
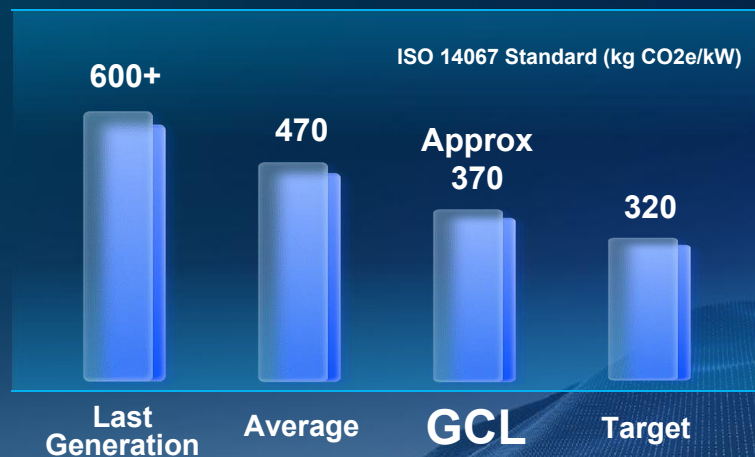
\$ 11.53+ Million



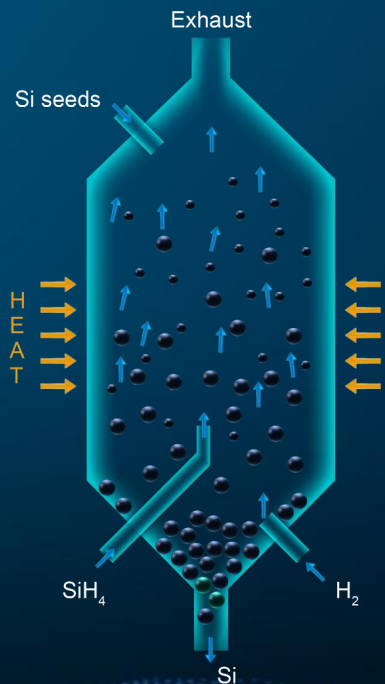
INNOVATING CARBON REDUCTION



Carbon Footprint of GCL Product



What is FBR (Fluidized Bed Reactor) Silicon?



0

1. Silicon "seeds" are inserted into a chamber filled with hot, high purity silane gas passing through it.

1.

0

2. The gas flow "fluidizes" the silicon seeds which liquefy as the silane gas decomposes and deposits layers of silicon on them: catalytic reaction.

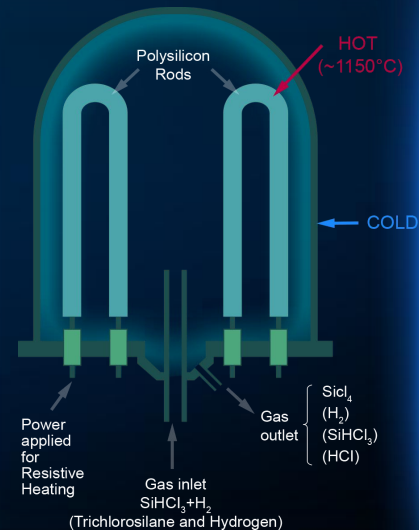
2.

0

3. The "seeds" grow larger and heavier and heavier until they leave the chamber when they have reached sufficient size.

3.

The Siemens Process

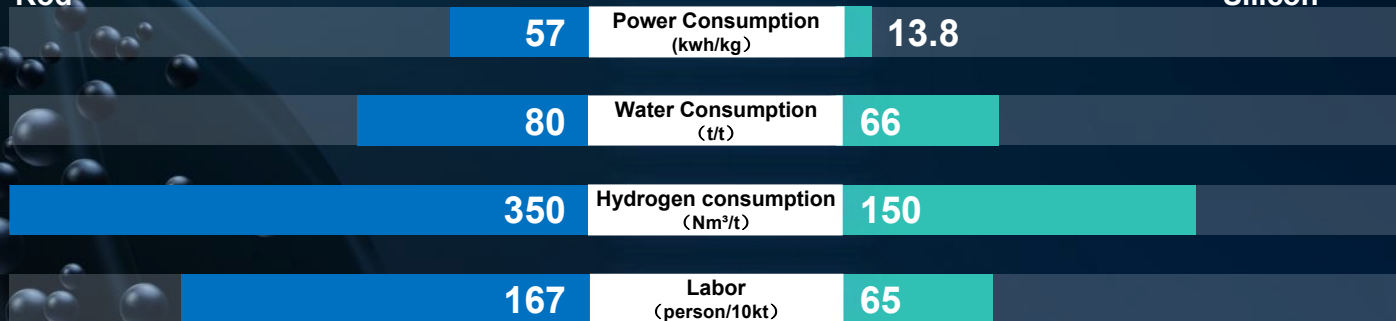


FBR Granular Silicon – Reduction, Reduction, Reduction



Improved Siemens Method Silicon
Rod

FBR Granular
Silicon



76%↓
Power
Consumption



18%↓
Water
Consumption



57%↓
Hydrogen
Consumption



61%↓
Labor
Cost

GCL Carbon Data Platform Introduction



Leap into the future Pave a green
path



Authoritative Certification Real-time Monitoring



Carbon
Footprint



Database

ecoinvent

International
Standards



Certifications

Carbon Footprint Certifications throughout the Supply Chain



Metallurgical
Silicon



FBR



Ingot



Wafer



Cell



Module

ISO14067

Ecoinvent3.9.1

Pioneering and leading in the PV Industry



Silicon Innovating a ZeRo-Carbon World



Certified



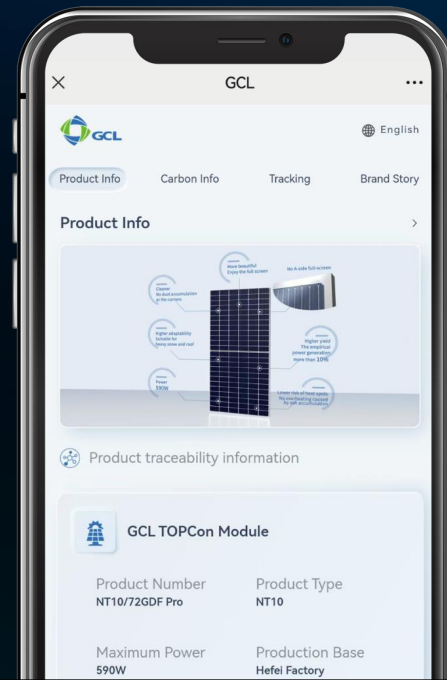
Traceable



Accessible



QR Code Scanning



Tamper-Proof Tech: How Blockchain Locks In Trust



0
1

Decentralization :

Data stored across multiple nodes, preventing single-point control or alteration

0
2

Cryptographic Hashing:

Unique digital 'fingerprints' for each block; any changes break the chain's continuity

0
3

Consensus Mechanisms :

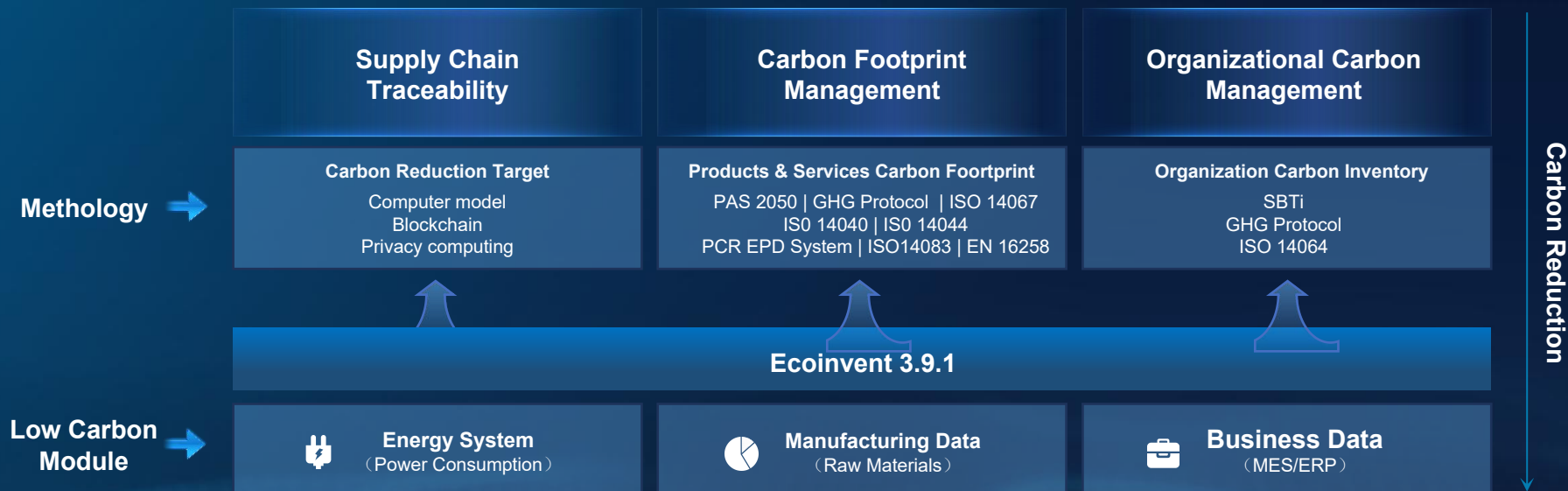
Blocks added only after consensus from the network, requiring immense effort to alter

0
4

Append-Only Structure :

Blocks are permanently recorded, and data cannot be erased or modified once added

GCL Carbon Management System



GCL PRODUCT EFFICIENCY



Features of GCL Tandem Perovskite PV Modules

Efficiency of 27.34%@2.05m²

(June 2024) from our 100MW pilot line

Long-term mass production

efficiency target of the Tandem module is 35%

Strong Stability

Obtained TUV Rheinland IEC 61215 and IEC 61730 module safety and reliability certification

Low Cost

Manufacturing cost is reduced to 50% of that of crystalline silicon modules



CATHAYCAPITAL

IDG Capital

SEQUOIA CAPITAL 红杉中国 | CHINA

Tencent 腾讯

TEMASEK

PV Module Portfolio

TOPCon – Main Products
Family



NT12R/48GDF

Bifacial Dual Glass
Monocrystalline Module

430Wp+



NT10/72GDF

Bifacial Dual Glass
Monocrystalline Module

600Wp+



NT12R/66GDF

Bifacial Dual Glass
Monocrystalline Module

620Wp+



NT12/66GDF

Bifacial Dual Glass
Monocrystalline Module

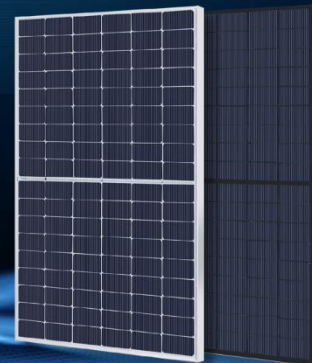
715Wp+



**NT10R/54GDF
NT10R/54BGDF**

Bifacial Dual Glass
Monocrystalline Module

500Wp+



A large, modern glass building with multiple floors, illuminated from within, reflecting in a body of water at night. The sky is dark blue with some stars visible.

THANK YOU

philipp.matter@gclsi.com