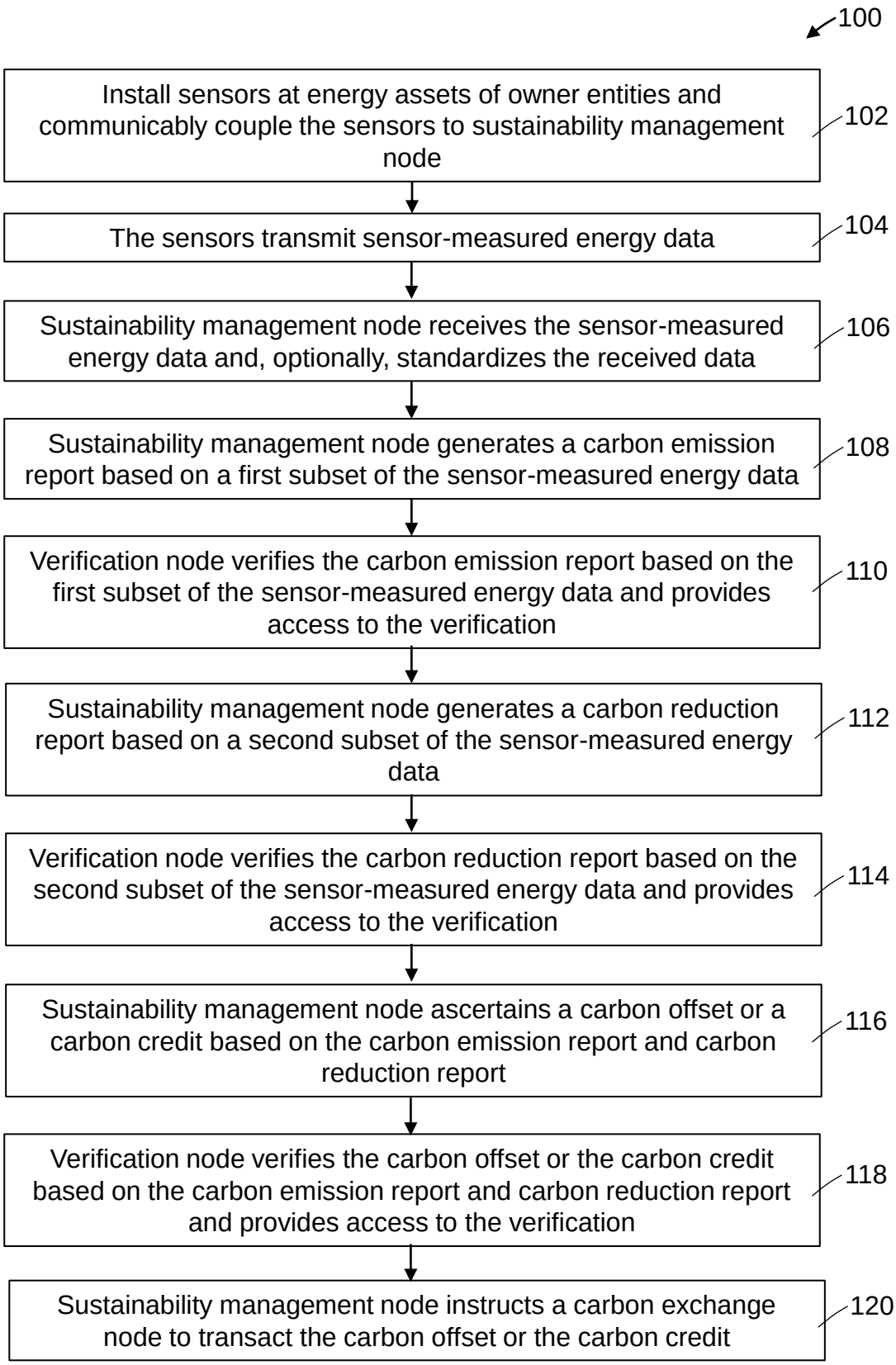

100
Install sensors at energy assets of owner entities and communicably couple the sensors to sustainability management node
102
The sensors transmit sensor-measured energy data
104
Sustainability management node receives the sensor-measured energy data and, optionally, standardizes the received data
106
Sustainability management node generates a carbon emission report based on a first subset of the sensor-measured energy data
108
Verification node verifies the carbon emission report based on the first subset of the sensor-measured energy data and provides access to the verification
110
Sustainability management node generates a carbon reduction report based on a second subset of the sensor-measured energy data
112
Verification node verifies the carbon reduction report based on the second subset of the sensor-measured energy data and provides access to the verification
114
Sustainability management node ascertains a carbon offset or a carbon credit based on the carbon emission report and carbon reduction report
116
Verification node verifies the carbon offset or the carbon credit based on the carbon emission report and carbon reduction report and provides access to the verification
118
Sustainability management node instructs a carbon exchange node to transact the carbon offset or the carbon credit
120

Figure 1

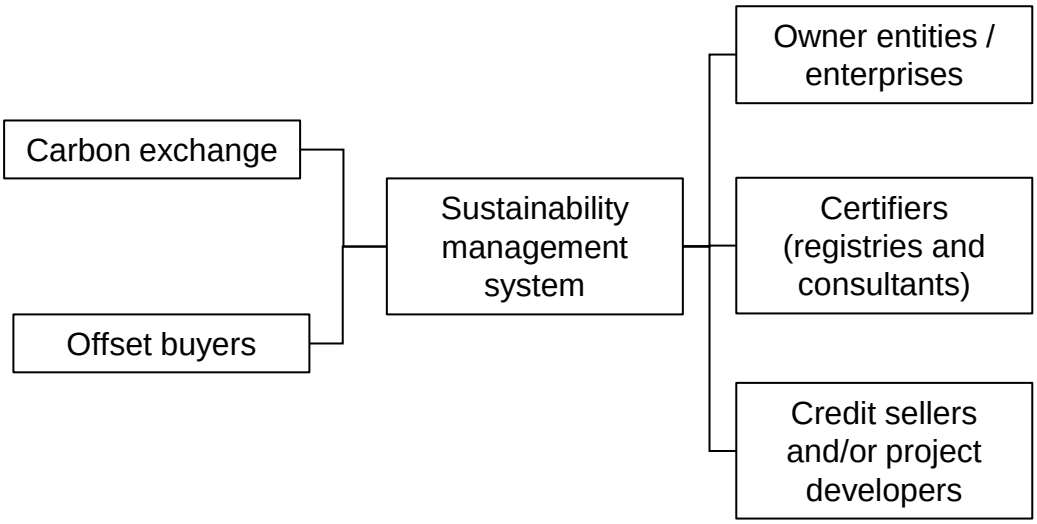


Figure 2A

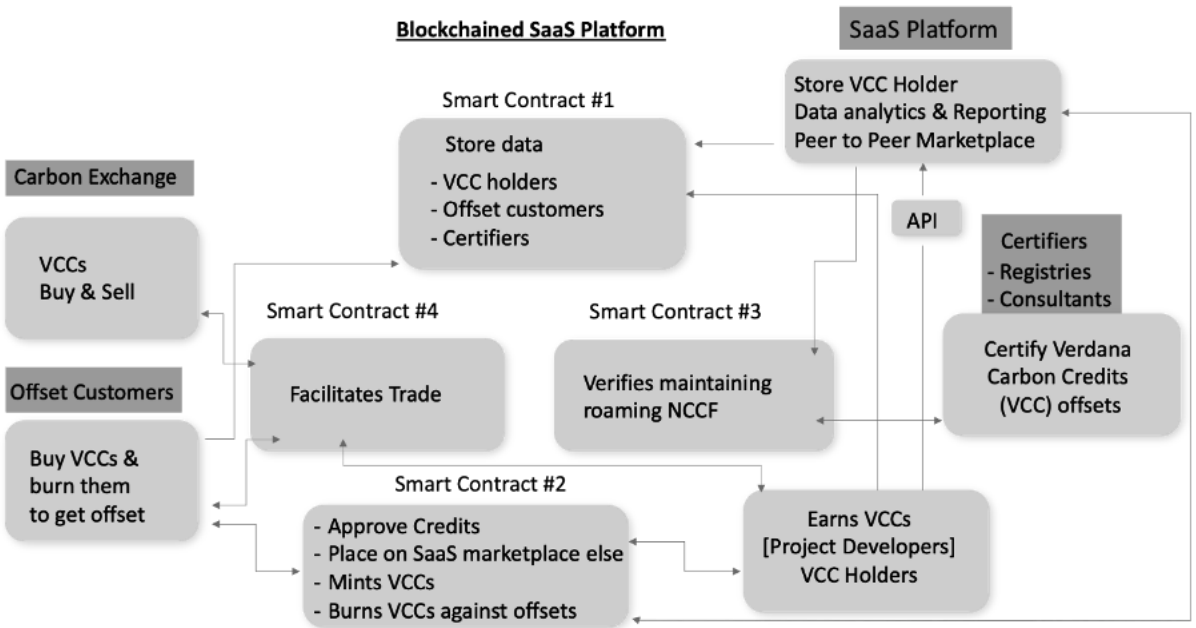


Figure 2B

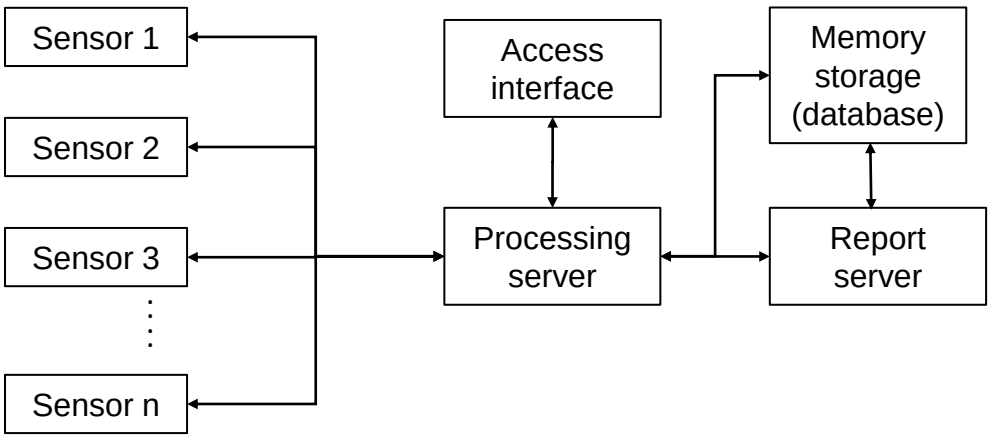

Sensor 1
Sensor 2
Sensor 3
Sensor n
Access interface
Processing server
Memory storage (database)
Report server

Figure 3A

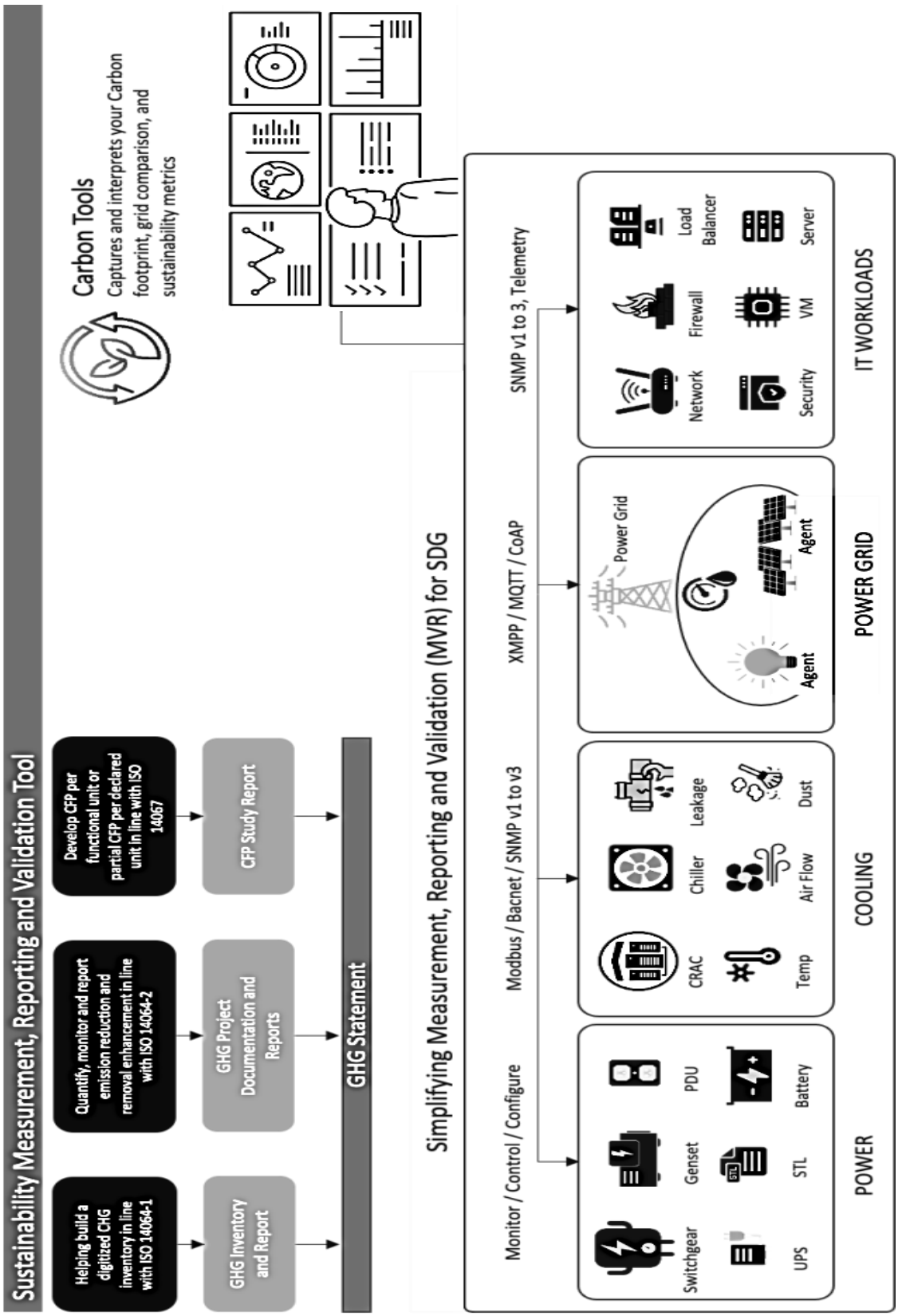

Sustainability Measurement, Reporting and Validation Tool
Helping build a digitized CHG inventory in line with ISO 14064-1
GHG Inventory and Report
Quantify, monitor and report emission reduction and removal enhancement in line with ISO 14064-2
GHG Project Documentation and Reports
Develop CFP per functional unit or partial CFP per declared unit in line with ISO 14067
CFP Study Report
GHG Statement
Carbon Tools
Captures and interprets your Carbon footprint, grid comparison, and sustainability metrics
Simplifying Measurement, Reporting and Validation (MVR) for SDG
Monitor / Control / Configure
Modbus / Bacnet / SNMP v1 to v3
XMPP / MQTT / CoAP
SNMP v1 to 3, Telemetry
Switchgear
Genset
PDU
UPS
STL
Battery
POWER
CRAC
Chiller
Leakage
Temp
Air Flow
Dust
COOLING
Power Grid
Agent
Agent
POWER GRID
Network
Firewall
Load Balancer
Security
VM
Server
IT WORKLOADS
Cloud Services
amazon webservices
Azure

Figure 3B