Rhebo Industrial Protector
Cybersecurity for Renewable Energy Resources (RER)

IMPLEMENT INTRUSION AND THREAT DETECTION FOR OT NETWORKS

GAIN CYBERSECURITY AND VISIBILITY IN DISTRIBUTED ENERGY RESOURCES

INTEGRATE COST-EFFICIENT OT SECURITY ACROSS ALL LOCATIONS

»The simple integration of the Rhebo solution into our SystemSafe infrastructure on INSYS icom gateways enables us to fully secure all remote-controlled wind and solar parks against technical failures and cyberattacks without significant additional effort.«

Mohamed Harrou | Head of SCADA | BayWa r.e. Data Services GmbH

Your Advantages
with Rhebo Industrial Protector

- **NEXT-GENERATION INTRUSION DETECTION SYSTEM** for renewable energy resources

- **VISIBILITY DOWN TO LOCAL OT** networks through systemwide Asset Discovery and Inventory

- **SECURE POWER SUPPLY** through early detection of malware and manipulation in remote systems

- **MITIGATION OF CYBERATTACKS AND MALWARE** through OT monitoring with anomaly and threat detection

- **INCREASE OF RER AVAILABILITY** through network condition monitoring for technical error states and misconfigurations

- **EASY INTEGRATION IN BROWNFIELD OT** through support of common hardware and virtualization platforms

Cyber risks in renewable energy resources

Renewable energy resources (RERs) are particularly vulnerable to interference from adversaries due to their remoteness from the control room. Protection and detection options are minimal. Communication within the systems is opaque to central monitoring in the control room. **The compromise of IEDs and PLCs** is thus detected too late. Local firewalls are blind to both novel attack patterns (the German Federal Office for Information Security (BSI) talks about 320,000 new malware variants per day), and professional attacks, which often are long-term in nature and use specially tailored attack methods. Adversaries can thus infiltrate the RER undisturbed and take control through, among other things, man-in-the-middle attacks. Spillovers to other facilities or the control room are also possible. In addition to the **loss of power and profit,** the **equipment might be damaged.** In the event of fleet shutdowns, even **grid stability** is at stake.

Cybersecurity even at your remotest energy ressources

Rhebo Industrial Protector's OT monitoring with anomaly detection forms the **Next Generation Intrusion Detection System for energy resources** – from control rooms and central power plants to substations and RERs. The **combination of intrusion and threat detection** enables end-to-end monitoring of the distributed infrastructure. Rhebo Industrial Protector passively and non-intrusively analyzes and visualizes all devices and the complete data traffic within the individual ICS and remote control networks. **Cyberattacks, manipulation, scans and technical error states** occurring in the facilities are detected and reported in real time on the basis of the associated communication changes. Damage to RER can thus be mitigated effectively and quickly, and the attack can be prevented from spreading to other sites or the control room.

Rhebo Industrial Protector supports all common platforms and can be easily integrated into any industrial network via:
- dedicated industrial hardware for physical setups;
- virtual appliances for the operation in VMware, Hyper-V and other virtual environments;
- software based sensors for common security gateways, edge computing devices and substation servers, e.g., by Barracuda, Bosch Rexroth, Cisco, INSYS icom Smart Devices, RAD, Siemens RUGGEDCOM and Welotec.

Rhebo Industrial Protector fully supports specific RER protocols such as OPC, IEC 60870-5-104, IEC 61850-8-1 and DNP3, amongst others. This enables operators to actively mitigate risks, avoid operational disruptions, and secure their critical services.

OT Cybersecurity »Made in Germany«

Contact us

www.rhebo.com | sales@rhebo.com | +49 341 3937900

Learn about our solutions for Industrial Cybersecurity

↗ Rhebo Industry 4.0 Stability and Security Audit   ↗ Rhebo Industrial Protector   ↗ Rhebo Managed Protection

About Rhebo

RRhebo develops and markets innovative industrial monitoring solutions and services for energy suppliers, industrial companies and critical infrastructures. The company enables its customers to increase both cybersecurity and the availability of their OT and IoT infrastructures and thus master the complex challenges of securing industrial networks and smart infrastructures. Since 2021, Rhebo is part of the Landis+Gyr AG, a leading global provider of integrated energy management solutions for the energy industry with around 5,000 employees in over 30 countries worldwide.

www.rhebo.com