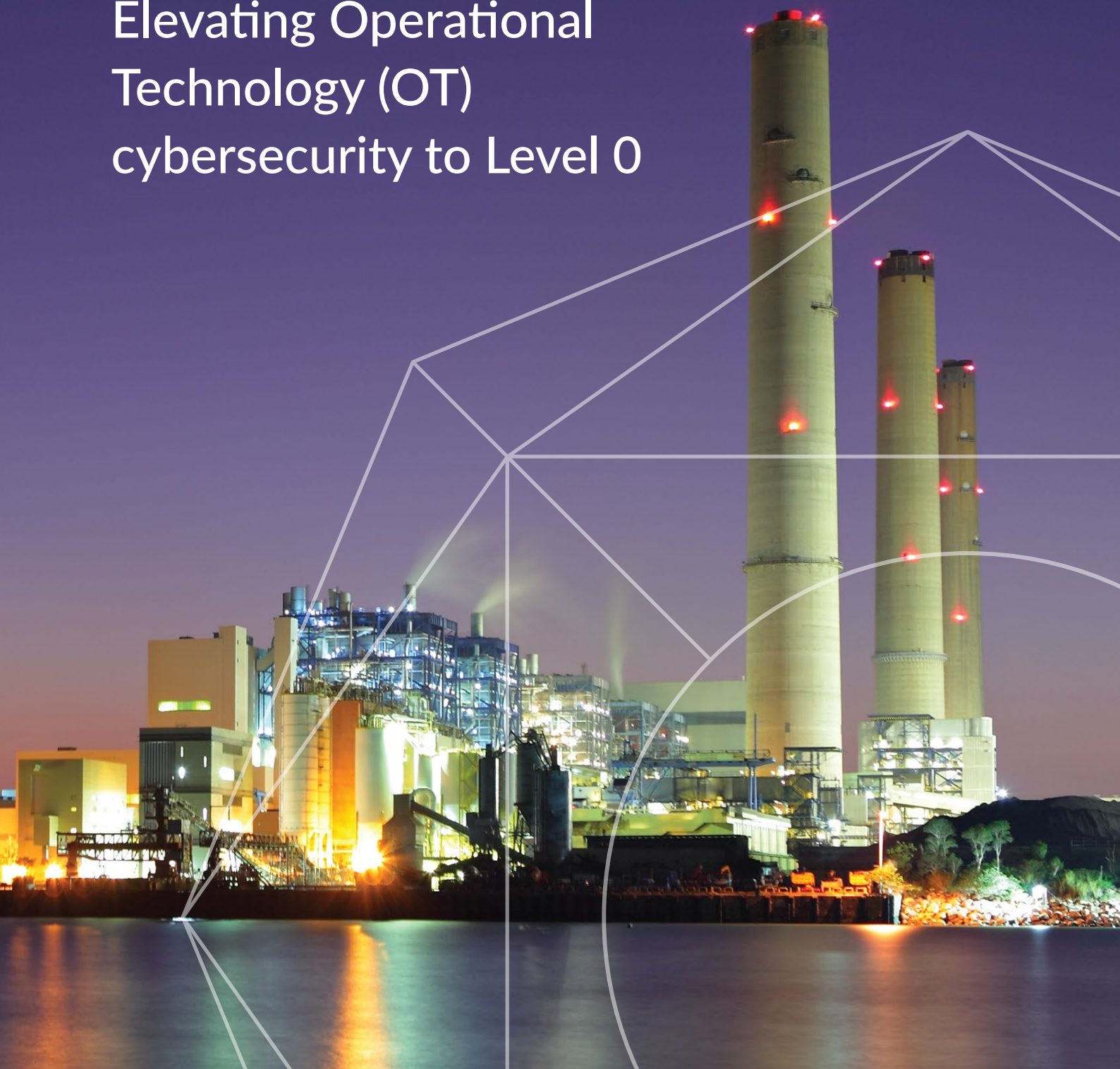# SIGA

Level Zero OT Resilience

THE ENERGY SECTOR

Elevating Operational
Technology (OT)
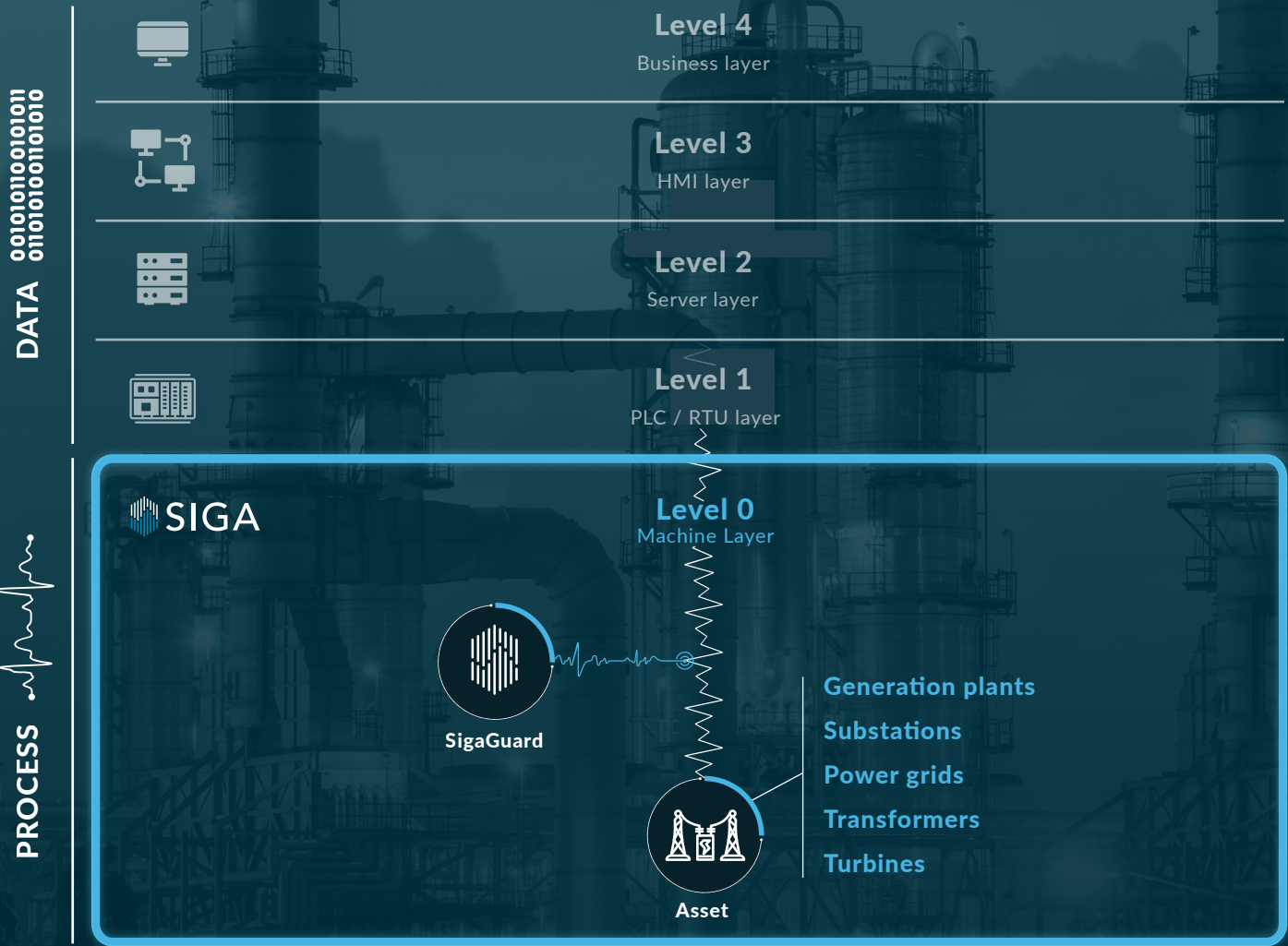cybersecurity to Level 0

THE CHALLENGE

People worldwide depend on the provision of energy. Cyber perpetrators are aware of the industry's zero-tolerance to downtime approach, and they are taking advantage of this weak spot by targeting the power sector with persistent assaults. The attack on the Ukrainian power grids back in December 2015 is still making waves around the world with energy companies working tediously to secure their critical assets to reduce and combat the consequences such attacks may cause. Protect the protection layers of substations, protect the control, and protect the operational systems at the same time.

THE SOLUTION

Siga's solution outsmarts the attackers by monitoring the electrical signals directly from the physical layer, Level 0, a free zone from an attacker's perspective. The unmatched visibility Siga offers ensures that even if the RTU/RTAC/PLCs and control system (IEC 61850) are compromised, operators have full visibility into their critical assets' state. Such situational awareness of the physical layer ensures operators handle cyber-attacks in the most effective way to minimize downtimes and promote business integrity and continuity.

THE ONLY OUT-OF-BAND PROCESS ORIENTED CYBER SOLUTION

DATA

Level 4
Business layer

Level 3
HMI layer

Level 2
Server layer

Level 1
PLC / RTU layer

SIGA

PROCESS

Level 0
Machine Layer

SigaGuard

Generation plants
Substations
Power grids
Transformers
Turbines

Asset

BIRD
Israel-U.S.
Binational Industrial Research
and Development Foundation

ISO 27001
Information Security Management
Certified

Horizon 2020
European Union Funding
for Research & Innovation

VALUE PROPOSITION

Out-of-band monitoring
Performs 24/7 detection without interrupting your physical processes.

Feeling the machinery's pulse
Provides operators with the most reliable source of data.

Inaccessible insights
Delivers precise granular visibility with cutting-edge AI insights.

More data at higher resolution
Reads the electrical signals up to one hundred times per second.

Data archives
Improved preparedness for future attacks.

Dynamic hardware
Integrates with your preferred provider's hardware.

SigaGuard's unique positioning (Level - 0)
Serves as a complementary solution to other OT solutions.

Reduces downtime to a minimum
Unmatched visibility ensures a quick and safe recovery from downtimes.

Regulation compliant
Complies with the most stringent regulations.

ABOUT US

Founded in 2014, SIGA OT Solutions is an innovative cybersecurity company driving a paradigm shift within the world of OT cybersecurity. The company strives to expand the boundaries of OT operations with deepened security and elevated process integrity, by delivering AI enhanced monitoring and deeper operational perception to operators of critical assets.

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...SigaGuard's monitoring system that detects anomalous behavior and provides real-time validation of process data was demonstrated in a substation environment, which is one of our critical assets, and conforms with NYPA's innovative deployment plan in the areas of process resilience and security.

NEW YORK STATE OF OPPORTUNITY. | NY Power Authority

Alan Ettlinger
Sr. Director, Research, Technology Development and Innovation at New York Power Authority

"
SIGA presented a new technology for cyber security of critical infrastructure and conducted a test on a dataset of a substation's electrical signal behavior. The results showed promise in helping seal our infrastructures from any cyber threat, at Level 0 of any machinery, equipment or process, and we look forward to exploring new options to help enable complete out-of-band protection of NYPA's most critical assets.

Kenneth (KC) Carnes
VP Critical Secure Services and CISO at New York Power Authority