

— CAPABILITY STATEMENT

See it early. Price it in AED. *Act in time.*

Novek is a Dubai-based predictive-maintenance and smart-building IoT company. We give asset owners an **independent, continuous early-warning layer** for the mechanical equipment that runs their buildings, cooling plants and industrial sites — detecting degradation 2–8 weeks before failure and translating every finding into AED. We sit alongside the BMS, SCADA and FM provider, and replace none of them.



WHAT WE DO

Continuous mechanical-health intelligence for critical assets — owner-side, independent, priced in AED.

CORE CAPABILITIES

<p>Early-warning monitoring Detect degradation 2–8 weeks before equipment fails — continuously, not at audit cycles.</p>	<p>Independent assurance A second opinion that sits outside the FM and BMS reporting chain. Every score auditable.</p>	<p>Multi-signal detection Vibration, thermal, electrical, level, drift, anomaly and peer benchmarking — fused, not siloed.</p>
<p>Financial translation Every finding expressed as AED risk-weighted exposure — and the cost of doing nothing.</p>	<p>Board-ready reporting Health scores, risk ranking and portfolio rollup — generated automatically, worst asset first.</p>	<p>Compliant UAE deployment TDRA-approved LoRaWAN, air-gapped from building IT, live in three weeks — no shutdown.</p>

<p>2–8 wks Early warning before failure</p>	<p>3 weeks Sensor to live monitoring</p>	<p>0–100 The Novek Score, per asset</p>	<p>In AED Every finding, as exposure</p>
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The buyer is the asset owner — the entity that funds the FM contract and, until now, had **no independent early warning of mechanical failure**. That is the gap Novek closes.

— CAPABILITY STATEMENT · TECHNICAL

The capability *behind the number.*

What sits under the early warning — the sensing, analytics, scoring and architecture that make it continuous, independent and safe to deploy on a live site.

Sensing	Four-channel clamp-on stack — current (self-powered CT, no battery), vibration , temperature (pipe-clamp / NTC) and submersible level . Non-invasive, no rewiring, no plant shutdown.
Analytics	Proprietary multi-signal stack — vibration severity (ISO 10816/20816), delta-T (ASHRAE G36), EWMA/CUSUM drift, electrical balance, level trend, correlated anomaly and peer benchmarking.
Health scoring	A single 0–100 Novek Score per asset, updated every 1–10 minutes and rolled up to site and portfolio — with each finding priced in AED.
Architecture	LoRaWAN EU868 → dedicated 4G gateway → AWS me-central-1 . Air-gapped from building IT. No BMS integration required.
Security & data	TLS 1.2+ in transit, AES-256 at rest, WireGuard VPN; UAE data residency. Client owns all data from day one — open standards, full export, no lock-in.
Equipment coverage	Chillers & compressors, AHUs, pumps & pressurised systems, cooling towers, motors & conveyors, electrical distribution.

Standards & compliance: built to ISO 10816/20816, ASHRAE Guideline 36, ISO 55000 and TDRA IoT approval. The same continuous data supports **AI Sa'fat** (Dubai), **Estidama Pearl** (Abu Dhabi) and **DEWA DSM 2050** reporting as a secondary benefit.

Sectors served: real-estate portfolios · district cooling · food & beverage manufacturing · building materials & industrial · utilities & infrastructure.

Commercial model: a fixed-scope **90-day pilot** — all hardware and edge infrastructure included, full analytics live from day one, a board-level exposure report at completion, and full data ownership. Roll out only on what the pilot proves.

COMPANY FACTS

COMPANY	Novek Technologies LLC
LOCATION	Dubai, United Arab Emirates
FOCUS	Predictive maintenance, smart-building IoT, mechanical asset intelligence
DEPLOYMENT	Wireless TDRA-approved LoRaWAN — 3-week install, no BMS integration, no shutdown
DATA RESIDENCY	AWS me-central-1 (UAE), TLS 1.2+, AES-256 — client-owned, full export
CONTACT	hello@novek.ae · novek.ae

Novek Technologies LLC · Dubai, United Arab Emirates · novek.ae · hello@novek.ae · Every finding priced in AED for the asset owner.