For: Chief Operations Officer · Head of District Cooling Plants

Typical IT / Analyst Prep: ~30 mins from plant & tank historian

Thermal Battery: 4-Week Plant & Storage Peak-Release Study (AED 0 Upfront)

Forwardable technical scope for your operational or IT lead. No live logins, VPNs or production changes are used at any point in this study.

01 · EXACT READ-ONLY HISTORICAL EXTRACTS (CSV / XLSX / PDF)

EXTRACT / REGISTER	TYPICAL SOURCE	FIELDS / COLUMNS USED
1. 15-Min District Plant Power & Load	Plant SCADA Historian CSV	`timestamp_15m, plant_id, total_plant_electric_kw, chiller_bank_kw, sent_out_cooling_rt, ambient_wet_bulb_c`
2. Chilled-Water Storage Tank Telemetry	TES Tank Historian CSV	`timestamp_15m, tank_id, state_of_charge_pct, thermocline_profile_c, charge_discharge_flow_lps`
3. Consenting-Building ETS & Comfort Logs	BACnet / Modbus CSV (NDA)	`timestamp_15m, building_id, ets_cooling_rt, indoor_temp_band_c, worst_zone_rh_pct`

02 · TWO SAFE EXECUTION PATHS (CLIENT CHOOSES)

Option A · Read-Only Slice Under Mutual NDA

Your team shares the agreed read-only historical export above after bilateral NDA signature. Nodal processes it in an isolated UAE-compliant workspace, returns the report, and purges files on study close.

Option B · Self-Run Inside Your Own UAE Network

Your IT team runs Nodal's auditable, dependency-pinned offline script locally on an isolated workstation inside your network and shares only the summary table if you choose.

Strict Security & Scope Boundary (What Is Never Requested):
No live SCADA or chiller controller credentials, no mechanical modifications, and zero comfort-band overrides.

03 · WRITTEN DELIVERABLE, STAGE HONESTY & COMMERCIAL TERMS

WRITTEN OUTPUT

District-level afternoon MW peak-shaving quantification (13:30–17:30) benchmarked directly against your existing operator tank schedule, including full evening recharge MW profile (17:30–00:00) and an IPMVP alternating-day summer shadow-test plan.

PUBLISHED STAGE & LIMITS

Stage: Simulated, internal review. Across 28 typical Dubai buildings and two district-cooling districts with storage tanks over 16 summer weeks not used for tuning, daily fleet power peak fell 5.2% on average (5.7 MW of 111 MW) vs thermostats at 23 °C, ahead of a tuned timer's 1.2% (1.3 MW) in all 16 weeks (6.2% vs 3.9% in 13:30–17:30). Limits: fleet electricity (not cooling RT), total kWh fell only 0.16%, untested against an operator's own optimised tank schedule, 1.4–2.2 pt lead without tanks (2 re-run weeks), and tank recharge raised evening demand (+6.0 MW weekly worst 17:30–22:00; +15–17 MW worst 22:00–midnight in 4 re-run weeks).

MUTUAL NDA & FEE RULE

AED 0 upfront for this 4-Week Plant & Storage Peak-Release Study. Zero obligation to continue; any subsequent shadow pilot or rollout runs strictly on terms agreed in writing after your team verifies the findings.

Ready to run this check in writing — zero introductory call required

Request bilateral NDA or local runner: santiago@nodal.systems · Full register: nodal.systems/thermal-battery.html

AED 0 UPFRONT