TRAP ENERGY SOLUTIONS

STEAM SYSTEM CRES SCORE
Compliance · Reliability · Energy · Safety

FOR CHEMICAL & PETROCHEMICAL PLANTS

Your plant's biggest energy user is the one no one is watching.

Steam drives your plant — process heat, reboilers, stripping, tracing and turbine drives — and it's the **single largest energy user on site**, and the one fewest people still know how to optimize. In one lean, senior-led engagement, we hand you your **CRES Score** — a single rating across **Compliance, Reliability, Energy efficiency and Safety** — the evidence behind it, and the ranked fixes to raise it.

The squeeze you know: Facilities, sustainability and reliability teams are told to cut energy and carbon and hit decarbonization commitments — on a limited capital budget — while steam expertise walks out the door with every retirement. Metering tells you what a plant uses. It never tells you **where the loss is, what condition the equipment is in, or where to start.** That's the gap we close.

YOUR CRES SCORE — FOUR DIMENSIONS, ONE NUMBER

Compliance — C

Boiler-code, CSD-1 and jurisdictional-inspection gaps found and documented — the records that support your PSM, OSHA, environmental-permit and boiler-safety files.

Reliability & Continuity — R

Single-point-failure and choke-point analysis across the steam system — because when steam goes down, so do reboilers, stripping and tracing, risking an unplanned unit trip. We find the risk before it forces a shutdown.

Energy Efficiency — E

Measured combustion efficiency at each boiler plus a defensible, measured steam-performance baseline — the number to prioritize capital and report toward your Scope 1 targets.

Safety — S

Safety-valve and low-water-cutoff testing, combustion-safeguard verification, and the documented EHS findings your risk and insurance records need.

Condition is the evidence — rolled into one CRES Score

Trap state, insulation, corrosion and equipment integrity are what we inspect on-site — the physical condition behind every grade. It all rolls into a single comparable CRES Score per plant, so you know exactly where to start.

WHAT YOU RECEIVE

- **Your CRES Score & scorecard** — Compliance, Reliability, Energy and Safety graded and rolled to one number per site.
- **Digital boiler-room walkthrough** — a navigable 360° + thermal record; every finding pinned to where it physically is.
- **Code-grounded written report** — prioritized findings across all four dimensions, each ranked by payback and carbon.
- **Measured efficiency baseline** — a defensible number to report progress toward your decarbonization goals.
- **Annual re-score** — lighter follow-ups that re-run your CRES Score and quantify the savings from completed projects.

BUILT FOR YOUR TEAM

Facilities / Plant Eng.	The equipment inventory, digital record and single-point-failure map the plant doesn't have today.
Sustainability	A defensible, comparable carbon & energy baseline to prioritize capital and report verified progress.
Process Safety & Compliance	Code-grounded, documented findings that strengthen your PSM, OSHA and jurisdictional records.
Finance / Capital	An ROI-ranked roadmap that points scarce capital at the highest-return projects — and proves the spend worked.

THE BOTTOM LINE

One failed-trap population, one excess-air correction, or a **single avoided hour of an unplanned unit trip** saves more than the CRES Score costs — and the deliverables become the visual, comparable, defensible case you take to your own leadership.

Get your plant's CRES Score. Stop by and talk with us.

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SCAN TO VISIT

TOOLS YOUR TEAM CAN USE — NOT A REPORT THAT SITS ON A SHELF

Code-grounded written report

Prioritized findings across compliance, safety, reliability and efficiency — every recommendation ranked by payback and carbon so the sequence of work is decided for you.

Digital boiler-room walkthrough

A navigable 360° + thermal scan of the room. Findings are pinned to their physical location; revisit any plant any time, from anywhere, without a return trip.

Your CRES Score & scorecard

Compliance, Reliability, Energy and Safety graded on the same basis at every facility and rolled to one CRES Score — so a multi-site system can be ranked and triaged objectively.

Measured steam-performance baseline

Energy in, minus measured losses, to a defensible efficiency number — the anchor for capital decisions and for reporting verified progress.

Annual re-score

A lighter follow-up visit that re-runs your CRES Score, verifies completed projects and quantifies the savings — keeping your baseline and reporting current year over year.

OPTIONAL ADDER

Compressed-air leak survey

While our ultrasonic gear is on-site, we survey compressed-air leaks in the same visit — a fast, high-ROI cut to one of the plant's most expensive loads.

LEAN BY DESIGN — IN AND OUT WITHOUT DISRUPTING THE PLANT

1

Pre-visit data

A short, identical request per site. Send a one-line steam diagram and we model your system before we arrive.

2

On-site, ~2 days

A small senior team measures, scans and walks down the whole system while you keep running.

3

Your CRES Score in ~1 week

Score, scorecard, digital walkthrough and ranked fixes delivered fast — no months lost to research.

4

Act & re-score

You execute the ranked roadmap; we return annually to re-score and quantify the savings.

HOW YOUR CRES SCORE IS BUILT

Boiler Room

Combustion, equipment condition, compliance, safety, water & electrical use, reliability.

Steam Distribution

Traps, insulation, condensate return, flash recovery, venting, piping & supports.

Your CRES Score

Both areas roll into one comparable score per facility — rank a whole system and know where to start.

The CRES Score is the front door. It gives your team a clear, defensible picture of the steam system — and gives us a shared, measured basis to help you implement the **energy and equipment solutions** it uncovers. Start with knowing exactly where you stand.

Get your CRES Score. Let's talk.

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SCAN TO VISIT