



PV WATER CONDITIONING SYSTEM (WCS)



Control Water.
Don't Fight It.

CONTROL WATER. DON'T FIGHT IT.

An engineering-oriented approach
towards scaling behavior and
operational conditioning.



TECHNICAL DISCUSSION DECK



Website

www.proconventurespl.com



Email

proconventurespl@gmail.com



Phone

+91 96932 02509



SCAN TO KNOW MORE

Watch Video | Case Studies
Technical Details | Contact Us



PV WATER CONDITIONING SYSTEM (WCS)



Control Water.
Don't Fight It.

THE REAL PROBLEM IS NOT WATER. IT IS MINERAL BEHAVIOR.

Hard water contains dissolved minerals that are invisible, but the damage they cause is very visible.



DISSOLVED
MINERALS

+



HEAT &
PRESSURE

+



TIME &
FLOW VELOCITY



SCALE, SLUDGE &
DEPOSITS

WHERE MINERAL BEHAVIOR CREATES PROBLEMS



SCALED PIPELINE



HEAT EXCHANGER TUBES



COOLING TOWER FILL



BOILER TUBES

These deposits
silently impact
every part of
your system.



LOWER
EFFICIENCY



FREQUENT
MAINTENANCE



MORE
DOWNTIME



HIGHER
OPERATING COST



SHORTER
EQUIPMENT LIFE



Minerals don't disappear.
They just behave differently.

Understanding this behavior is the key
to protecting performance and profitability.



Website

www.proconventurespl.com



Email

proconventurespl@gmail.com



Phone

+91 96932 02509



SCAN TO KNOW MORE

Watch Video | Case Studies
Technical Details | Contact Us



WHAT IF MINERALS COULD BE CONDITIONED INSTEAD OF CONSTANTLY REMOVED?

WCS works at the behavior level.

It influences mineral behavior so that they remain stable in suspension and form non-adherent, easy-to-remove solids instead of hard scale.

FROM HARD, ADHERENT SCALE TO STABLE, NON-ADHERENT PARTICLES



1

DISSOLVED MINERALS

Minerals are invisible and remain in solution.



2

CRYSTAL NUCLEATION

Crystals begin to form and grow.



3

CONTROLLED GROWTH

WCS conditions crystals to remain stable, in suspension.



4

NON-ADHERENT PARTICLES

Soft, non-sticky solids are easily removed through blowdown.

THE SHIFT IN BEHAVIOR. THE CHANGE IN OUTCOME.



WITHOUT WCS

Crystals grow, attach to surfaces and build up hard scale.

Hard to remove. Costly to manage.

VS



WITH WCS

Crystals stay in suspension and exit as soft, non-adherent solids.

Easy to remove. Easy on systems.



WCS does not remove minerals.

It changes how they behave.



Website

www.proconventurespl.com



Email

proconventurespl@gmail.com



Phone

+91 96932 02509



SCAN TO KNOW MORE

Watch Video | Case Studies
Technical Details | Contact Us



PV WATER CONDITIONING SYSTEM (WCS)



Control Water.
Don't Fight It.

OBSERVATIONS FROM FIELD APPLICATIONS

Over the years, across diverse systems and industries, consistent field observations reinforce the **WCS** philosophy.



These are observations,
not lab claims.
Real systems.
Real conditions.
Real outcomes.



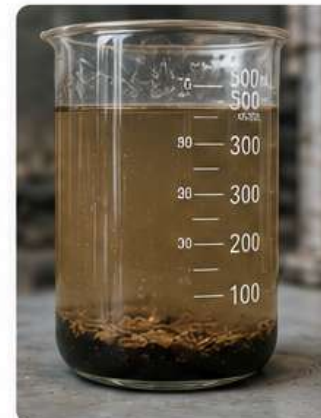
1. REDUCED SCALE ADHERENCE

Surfaces show softer,
non-adherent deposits
that are easier to remove
during maintenance.



3. IMPROVED HEAT TRANSFER TENDENCY

Heat exchanger surfaces
tend to remain cleaner
for longer durations,
supporting better
thermal performance.



2. FINER, NON-ADHERENT PARTICULATE

Sludge analysis
consistently shows finely
dispersed, non-adherent
particles instead of hard,
crystalline scale.



4. LOWER MAINTENANCE INTERVENTIONS

Systems conditioned with
WCS show extended
run cycles and reduced
cleaning frequency.



Patterns may vary by system, but the direction remains the same:
Better behavior. Better stability. Better systems.

**Observation. Understanding.
Then, Optimization.**



Website

www.proconventurespl.com



Email

proconventurespl@gmail.com



Phone

+91 96932 02509



SCAN TO KNOW MORE

Watch Video | Case Studies
Technical Details | Contact Us



PV WATER CONDITIONING SYSTEM (WCS)



Control Water.
Don't Fight It.

WHERE WCS FITS NATURALLY IN YOUR SYSTEM

WCS is not a treatment chemical.
It is a **conditioning technology**.
It works continuously, 24/7,
as water moves through
your system.



Purpose is not removal.
Purpose is control.
Different approach.
Better results.

INTEGRATED. CONTINUOUS. PROACTIVE.



CONDITIONS THE WATER
from the source
onward



**INFLUENCES MINERAL
BEHAVIOR**
throughout the loop



WORKS CONTINUOUSLY
without chemicals,
without downtime



IMPROVES RELIABILITY
and extends life of
critical assets



Better conditioned water. Better behaving systems.

That is where performance begins.



Website
www.proconventurespl.com



Email
proconventurespl@gmail.com



Phone
+91 96932 02509



SCAN TO KNOW MORE

Watch Video | Case Studies
Technical Details | Contact Us



PV WATER CONDITIONING SYSTEM (WCS)



Control Water.
Don't Fight It.

LET'S OPTIMIZE TOGETHER. THE RIGHT WAY.

WCS delivers results when it is designed, implemented and monitored the right way. Let's evaluate, validate and create measurable impact—together.



This is a discussion.
Your insights. Your system knowledge.
Our technology. Better outcomes.

HOW WE MOVE FORWARD – TOGETHER



UNDERSTAND

Share system details, challenges and goals.
We listen.



EVALUATE

Assess water quality, system conditions and deposition behavior.



DESIGN & IMPLEMENT

Right-sized WCS solution for your system.
Seamless integration.



MONITOR & VALIDATE

Track performance, verify improvements, ensure consistency.



OPTIMIZE & SUSTAIN

Continuous improvement for long-term reliability and cost savings.

THE VALUE WE CREATE TOGETHER



LOWER TOTAL COST OF OWNERSHIP

Reduced cleaning, chemical use, downtime and energy.



HIGHER RELIABILITY & AVAILABILITY

Cleaner heat transfer surfaces. Stable operations.



EXTENDED ASSET LIFE

Protect critical equipment from scale-related damage.



SUSTAINABLE OPERATIONS

Lower chemical footprint. Better for people and planet.



MEASURABLE PERFORMANCE

Visible impact. Proven outcomes.



READY TO TAKE THE NEXT STEP?

Let's plan a pilot. Let's prove the impact. Let's build a better, more reliable system—together.



Website
www.proconventurespl.com



Email
proconventurespl@gmail.com



Phone
+91 96932 02509



SCAN TO KNOW MORE

Watch Video | Case Studies
Technical Details | Contact Us



PV WATER CONDITIONING SYSTEM (WCS)



Control Water.
Don't Fight It.

LET'S START A SMARTER CONVERSATION.

Every system is different.
Every water behaves differently.
But the objective is the same—
better behavior, better performance.



This is not a sales pitch.
This is an engineering
conversation.

Let's understand your system,
evaluate the opportunity and
explore a pilot.

No obligation.
Only possibilities.

WHAT WE CAN DO NEXT



1. DISCOVER

Understand your system,
challenges and goals.



2. EVALUATE

Analyze water, conditions
and deposition behavior.



3. PILOT & VALIDATE

Prove impact with real data
in your system.



**TOGETHER, LET'S BUILD SYSTEMS THAT
PERFORM BETTER. FOR LONGER.**

Efficient. Reliable. Sustainable.
That's the PV WCS commitment.



Website

www.proconventurespl.com



Email

proconventurespl@gmail.com



Phone

+91 96932 02509



SCAN TO KNOW MORE

Watch Video | Case Studies
Technical Details | Contact Us



PV WATER CONDITIONING SYSTEM (WCS)



Control Water.
Don't Fight It.

THANK YOU!

LET'S BUILD BETTER WATER SYSTEMS—TOGETHER.

PV WCS is a proven conditioning solution that works with your system—continuously, proactively and sustainably.

Better conditioned water.
Better behaving systems. Better outcomes.

WHY PARTNER WITH PV?



PROVEN TECHNOLOGY

Field-validated. Results you can measure.



ENGINEERED SOLUTIONS

Right solution for your system and goals.



RELIABLE PARTNER

Transparent. Responsive. Committed to your success.



SUSTAINABLE IMPACT

Reduce chemical use.
Lower energy. Protect assets.



MEASURABLE RESULTS

Improve performance.
Reduce cost. Extend life.



CUSTOMER FOCUSED

We listen. We collaborate.
We deliver value.



READY TO GET STARTED?
LET'S CONNECT.

Let's plan a pilot, prove the impact and build a better, more reliable system—together.



REACH OUT TODAY



Website

www.proconventurespl.com



Email

proconventurespl@gmail.com



Phone

+91 96932 02509



SCAN TO KNOW MORE

Watch Video | Case Studies
Technical Details | Contact Us