



PV WATER CONDITIONING SYSTEM (WCS)

# CONTROL WATER. DON'T FIGHT IT.

A smarter way to manage water systems  
and reduce operating costs.



Protect  
Your Systems



Reduce  
Operating Cost



Improve  
Performance



Extend  
Equipment Life



Increase  
Profitability



FROM SCALING PROBLEMS TO  
**PERFORMANCE STABILITY** – ONE INTEGRATED SOLUTION.



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# PV WATER CONDITIONING SYSTEM (WCS)

Control Water. Don't Fight It.

Non-Chemical | Eco-Friendly | Performance Driven | Sustainable



We don't remove minerals.  
We control how they behave.

## WHAT IS PV WCS?

PV Water Conditioning System (WCS) is a non-chemical technology that changes the behavior of dissolved minerals in water.

It converts scale-forming minerals into non-adherent, microscopic crystals which remain suspended in water and are carried away with the flow.



Environment  
Friendly



Chemical  
Free

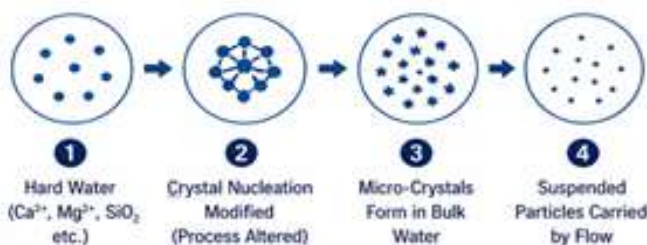


Zero Salt  
No Water Wastage



Low  
Maintenance

## HOW PV WCS WORKS



We don't remove minerals.  
We control how they behave.

## VISIBLE RESULTS

WITHOUT WCS

WITH WCS

Cooling Tower Fill



Heat Exchanger  
Tubes



Pipelines



Better Heat Transfer



Lower Maintenance

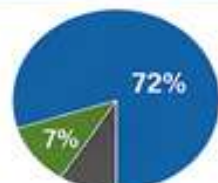


Higher Efficiency

## REAL FIELD EVIDENCE – SLUDGE ANALYSIS



Sludge collected from  
system after WCS  
operation



■ Calcium (Ca) – 72%

■ Magnesium (Mg) – 7%

■ Silica (Si) – 21%

Minerals are not removed.  
They are converted into non-adherent sludge.

## KEY BENEFITS



Improved Heat  
Transfer Efficiency



Reduced Maintenance  
& Downtime



Lower Blowdown  
& Water Saving



Eco-Friendly  
& Chemical Free



Energy  
Savings



No Scaling in  
Pipes & Equipment



Extended Life of  
Systems



Lower Operating  
Cost

## WIDE RANGE OF APPLICATIONS



Cooling Towers



Heat Exchangers



Boilers



Process Lines



HVAC Systems



& More...



Ideal for Industries, Commercial Buildings,  
Hospitals, Hotels, Institutions & More...

## WHY PARTNER WITH PV WCS?

- ✓ Unique & Proven Non-Chemical Technology
- ✓ High Market Demand – Universal Problem
- ✓ Easy Installation – No Process Interruption
- ✓ Low Investment – High Returns
- ✓ Long Equipment Life
- ✓ Strong Technical & After-Sales Support

## RETURN ON INVESTMENT (INDICATIVE)



Energy Saving 5 – 15%

Maintenance Cost Saving 20 – 40%

Blowdown Reduction 20 – 50%

Payback Period 6 – 18 Months\*

\*Depending on system & application

## QUALITY YOU CAN TRUST



ISO 9001:2015  
Certified Company

Committed to Quality,  
Innovation & Excellence

## PV – ENGINEERING SOLUTIONS FOR A SUSTAINABLE TOMORROW



Save Water



Save Energy



Save Environment



Save Cost

# The Hidden Cost of Water Scaling

Scaling is not just a maintenance issue – it is a performance loss problem



Control Water.  
Don't Fight It.

## SCALING – A SILENT THREAT TO YOUR SYSTEMS

### SCALED PIPELINE



⚠️ Reduced Flow  
Higher Pressure Drop

### HEAT EXCHANGER TUBES



⚠️ Poor Heat Transfer  
Higher Energy Use

### COOLING TOWER FILL



⚠️ Clogging & Hot Spots  
Higher Blowdown

### BOILER TUBES



⚠️ Overheating & Inefficiency  
Risk of Tube Failure

### VALVES & FITTINGS



⚠️ Jamming & Leakage  
Frequent Replacement

### PUMPS & EQUIPMENT



⚠️ Wear & Tear  
Shorter Equipment Life

## WHAT IS HAPPENING?

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

### HARD WATER CONTAINS:

**Ca** CALCIUM  
(Ca<sup>2+</sup>)



**Mg** MAGNESIUM  
(Mg<sup>2+</sup>)



**Si** SILICA  
(SiO<sub>2</sub>)



These minerals form  
**HARD SCALE DEPOSITS**  
on surfaces.

## THE BUSINESS IMPACT



### HEAT TRANSFER EFFICIENCY

Scale acts as an insulator, reducing heat transfer.



### ENERGY CONSUMPTION

More energy is required to achieve the same output.



### MAINTENANCE COST

Frequent cleaning, chemical treatment and breakdowns.



### DOWNTIME & PRODUCTION LOSS

Unplanned shutdowns disrupt operations and deliveries.



### EQUIPMENT LIFE

Corrosion under deposits leads to premature failure.



### TOTAL COST OF OWNERSHIP

High operating cost and lower profitability.



INDUSTRIES DON'T LOSE MONEY BECAUSE OF WATER...  
THEY LOSE MONEY BECAUSE OF **HOW MINERALS BEHAVE.**



Lower Efficiency



Higher Costs



More Downtime



Lower Profits



# Why Existing Solutions Fall Short

*Traditional methods treat the symptom, not the cause.*

High Cost | Temporary Results | Chemical Dependency | Environmental Impact



Control Water.  
Don't Fight It.

## COMMON WATER TREATMENT APPROACHES

### CHEMICAL TREATMENT



#### THE PROBLEM

- ✗ Continuous chemical dosing required
- ✗ High recurring cost
- ✗ Sludge generation
- ✗ Environmental hazards
- ✗ Operator dependency

### WATER SOFTENERS



#### THE PROBLEM

- ✗ Only exchanges Ca & Mg
- ✗ Does not remove TDS
- ✗ High salt consumption
- ✗ Waste water discharge
- ✗ Not effective for high TDS / high temp systems

### SCALE INHIBITORS



#### THE PROBLEM

- ✗ Prevents scale but does not remove it
- ✗ Breaks down at high temperature
- ✗ Weeds continuous feed
- ✗ Results are inconsistent
- ✗ High chemical cost

### MAGNETIC / ELECTRONIC DEVICES



#### THE PROBLEM

- ✗ Unproven & inconsistent performance
- ✗ Not effective in high flow / high hardness
- ✗ No scientific evidence for long-term results
- ✗ Temporary effect

### ACID CLEANING / DESCALING



#### THE PROBLEM

- ✗ One-time solution (not permanent)
- ✗ Causes corrosion
- ✗ Downtime & production loss
- ✗ Risk to operators
- ✗ Frequent requirement

## WHAT THEY DON'T ADDRESS

All traditional methods either remove, inhibit or clean...

**BUT NONE CHANGE THE BEHAVIOR OF MINERALS.**



Dissolved Minerals



Scale Formation



Hard Scale Deposits



They focus on fighting scale, not preventing scale formation at the source.  
Result: Temporary relief, long-term damage & higher cost.

## THE RESULT: A NEVER-ENDING CYCLE



HIGH COST



FREQUENT MAINTENANCE



LOWER EFFICIENCY



HIGHER DOWNTIME & LOWER PROFITS



Industries are trapped in a cycle of chemical dependency, cleaning & cost with no permanent solution.

## WHAT INDUSTRIES REALLY NEED



Prevents Scale Formation



Controls Mineral Behavior



Non-Chemical Solution



Low Operating Cost



Long Term Performance



Eco-Friendly & Sustainable

This is what **PV WATER CONDITIONING SYSTEM (WCS)** is designed to deliver.



It's time to move from

**TREATING WATER** to **CONDITIONING WATER**

Change the Behavior. Prevent the Damage. Save for the Future.



**PV WATER CONDITIONING SYSTEM (WCS)**

A SMARTER WAY TO MANAGE WATER. A STRONGER WAY TO GROW.



## INTRODUCING

# PV WATER CONDITIONING SYSTEM (WCS)

A Non-Chemical, Smart & Sustainable Solution for Today's Water Challenges



Control Water.  
Don't Fight It.

### THE SOLUTION: PV WATER CONDITIONING SYSTEM (WCS)



**NON-CHEMICAL TECHNOLOGY**  
No chemicals, no salt, no regeneration.  
100% physical process.



**CHANGES MINERAL BEHAVIOR**  
Modifies the structure of scale-forming minerals.



**KEEPS MINERALS IN SUSPENSION**  
Converts hardness into microscopic, non-adherent particles.



**PROTECTS SYSTEMS & EQUIPMENT**  
Prevents scale buildup, corrosion and improves overall efficiency.



**SUSTAINABLE & ECO-FRIENDLY**  
Zero discharge, zero pollution, better for environment.

### HOW PV WCS WORKS



We don't remove minerals.  
We control how they behave.



**HARD WATER**  
(Ca<sup>2+</sup>, Mg<sup>2+</sup>, SiO<sub>2</sub> etc.)



**CRYSTAL NUCLEATION MODIFIED**  
(Process Altered)



**MICRO-CRYSTALS FORM IN BULK WATER**



**SUSPENDED PARTICLES CARRIED BY FLOW**

#### WITHOUT WCS



Hard scale deposits attach to surfaces

#### WITH WCS



Minerals remain in suspension and are carried away

**WCS MAKES THE DIFFERENCE**

### WHERE PV WCS MAKES AN IMPACT



COOLING TOWERS



HEAT EXCHANGERS



BOILERS



PROCESS LINES



HVAC SYSTEMS



& MANY MORE

### THE PV WCS VALUE PROPOSITION



**IMPROVE EFFICIENCY**

Better heat transfer & system performance



**REDUCE MAINTENANCE**

Less downtime, less cleaning, less disturbance



**LOWER COSTS**

Energy saving, extended equipment life, lower OPEX



**SUSTAINABLE IMPACT**

Zero chemicals, zero discharge, better tomorrow



PV WCS – ENGINEERED TO TRANSFORM WATER.  
SMARTER SYSTEMS. HIGHER EFFICIENCY. SUSTAINABLE FUTURE.



Save Water



Save Energy



Save Environment



Save Cost

# PROVEN RESULTS. MEASURABLE IMPACT.

*Real Sites. Real Data. Real Savings.*

**Control Water.  
Don't Fight It.**

## PV WCS DELIVERS CONSISTENT, VERIFIABLE RESULTS ACROSS INDUSTRIES AND APPLICATIONS

### BEFORE vs AFTER (TYPICAL RESULTS)

|                                                                                                                   | BEFORE                                                                                                                   | AFTER WITH PV WCS                                                                                                        |
|-------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
|  <b>COOLING TOWER SYSTEM</b>      |  Scale buildup on tubes & surfaces      |  Clean tubes, optimal heat transfer     |
|  <b>HEAT EXCHANGER</b>            |  Scaling reduces efficiency & flow      |  Scale-free surfaces, higher efficiency |
|  <b>BOILER &amp; STEAM SYSTEM</b> |  Scale & deposits reduce steam quality  |  Clean system, better steam quality     |
|  <b>PIPES &amp; PLUMBING</b>      |  Reduced diameter & flow due to scaling |  Better flow, no blockage               |
|  <b>DOMESTIC APPLICATION</b>      |  Clogged nozzles & white stains        |  Free flow, no stains                  |

### MEASURABLE PERFORMANCE IMPROVEMENT

|                                                                                     |                                                                        |                                                                                                                        |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
|  | <b>Heat Transfer Efficiency</b><br>Improved thermal performance        |  <b>10 – 25%</b><br>Improvement     |
|  | <b>Water &amp; Chemical Savings</b><br>Lower blowdown & chemical usage |  <b>15 – 30%</b><br>Reduction       |
|  | <b>Energy Savings</b><br>Lower energy consumption                      |  <b>8 – 20%</b><br>Reduction        |
|  | <b>Equipment Downtime</b><br>Fewer shutdowns & breakdowns              |  <b>50 – 70%</b><br>Reduction       |
|  | <b>Maintenance Cost</b><br>Reduced cleaning & maintenance              |  <b>20 – 40%</b><br>Reduction       |
|  | <b>Total Cost of Ownership</b><br>Overall operating cost               |  <b>10 – 25%</b><br>Lower TCO       |
|  | <b>RO Membrane Life</b><br>Less fouling, longer membrane life          |  <b>30 – 50%*</b><br>Life Extension |

\* Results are indicative and may vary based on water quality and operating conditions.

### RO & MEMBRANE SYSTEMS – PROTECTING WHAT MATTERS

- ✓ Prevents scale deposition on RO membranes
- ✓ Reduces fouling & clogging
- ✓ Maintains permeate flow rate
- ✓ Extends membrane life
- ✓ Reduces cleaning frequency (CIP) & cost

#### BEFORE (SCALED MEMBRANE)



**VS**

#### AFTER WITH PV WCS (CLEAN MEMBRANE)



**Lower Replacement Cost  
Better Performance  
Higher Reliability**

**WCS protects the system  
that purifies your water.**

### CONSISTENT RESULTS. LONG-TERM VALUE.

PV WCS ensures your systems run better, last longer and cost less.



Save Water



Save Energy



Save Maintenance



Save Cost



# HOW PV WCS WORKS – THE SCIENCE BEHIND THE RESULTS

*We don't remove minerals. We control how they behave.*

A Physical-Chemical Process that changes crystal behavior and prevents scale formation.



**Control Water.  
Don't Fight It.**

## THE SCIENCE IN SIMPLE TERMS

Hard water contains dissolved minerals.  
In heat & pressure, these minerals  
naturally try to form hard, sticky scale.



- Ca** Calcium ( $\text{Ca}^{2+}$ )  
Scale Builder
- Mg** Magnesium ( $\text{Mg}^{2+}$ )  
Scale Builder
- Si** Silica ( $\text{SiO}_2$ )  
Scale Contributing



**If not controlled**, minerals form hard scale  
on surfaces that reduce efficiency,  
increase energy use and cause damage.

## WHAT PV WCS ACTUALLY DOES (BEHAVIOR MODIFICATION)



**RESULT: No scale formation. No deposits.**  
Just clean, efficient, protected systems.

*Chemistry remains the same.  
Behavior changes.  
That's the PV WCS difference.*

## BEHAVIOR CHANGE – WHY DEPOSITS DON'T FORM

|                            | <b>WITHOUT PV WCS</b><br>Uncontrolled Crystal Growth | <b>WITH PV WCS</b><br>Controlled Crystal Growth |
|----------------------------|------------------------------------------------------|-------------------------------------------------|
| <b>CRYSTAL SIZE</b>        | <br>Large, hard crystals                             | <br>Micro-crystals                              |
| <b>CRYSTAL SHAPE</b>       | <br>Irregular, sharp & sticky                        | <br>Rounded, smooth & non-sticky                |
| <b>BEHAVIOR ON SURFACE</b> | <br>Attaches to surface & builds scale               | <br>Does not attach, stays in suspension        |



PV WCS changes the way crystals form,  
so they cannot stick, grow or cause scale.

## THE RESULT YOU DON'T SEE – BUT FEEL EVERY DAY



**No Scale Formation**  
Keeps systems clean



**Better Efficiency & Heat Transfer**  
Improves overall performance



**Lower Energy Consumption**  
Reduces operating costs



**Less Maintenance & Downtime**  
More uptime, less intervention



**Longer Equipment Life**  
Protects your capital investment

## SCALE PREVENTION THAT SHOWS UP AS SLUDGE (NOT SCALE)



This is why systems stay clean and problems are eliminated at the source.

## ONE TECHNOLOGY. ALL APPLICATIONS.



**INDUSTRIAL SYSTEMS**



**COLD STORAGE & REFRIGERATION SYSTEMS**



**DOMESTIC & COMMERCIAL SYSTEMS**



From factories to homes – water behaves the same.  
PV WCS controls it everywhere.



**PV WATER CONDITIONING SYSTEM (WCS)**  
Non-Chemical. Smart Technology. Sustainable Results.



Save Water



Save Energy



Save Environment



Save Cost

# ENGINEERED FOR PERFORMANCE. BUILT TO JUSTIFY YOUR INVESTMENT.

PV WCS – Smart Technology. Solid Engineering. Real Value.

✓ Non-Chemical | ⚙️ Maintenance-Free | ♻️ Sustainable | ⌚ Long-Lasting | ₹ Cost-Effective

 Control Water.  
Don't Fight It.

## BUILT STRONG. BUILT RIGHT.



-  **ALL SS 304 CONSTRUCTION**  
Complete fabrication in Stainless Steel 304 for maximum corrosion resistance and long service life.
-  **NO MOVING PARTS**  
Zero wear & tear. No mechanical components inside the flow chamber.
-  **NO CHEMICALS. NO CONSUMABLES.**  
No chemicals, no by-products, no dosing, no handling. Completely maintenance-free.
-  **PRECISION ENGINEERED FLOW CHAMBER**  
Optimized hydrodynamic design creates the ideal environment for effective crystal behavior modification.



Built in Stainless Steel – because water systems demand corrosion resistance, not compromise.

## WHERE YOUR MONEY GOES

You are not paying for a device.  
You are investing in performance stability.

-  **ENGINEERING DESIGN (NOT A GIMMICK)**  
Scientifically engineered flow conditions to change crystal behavior and prevent scale formation.
-  **MATERIAL INTEGRITY – SS 304**  
Premium grade stainless steel ensures strength, corrosion resistance and long life even in harsh conditions.
-  **PERFORMANCE CONSISTENCY**  
Consistent results across flow rates, water qualities and operating conditions.
-  **ZERO RECURRING COST**  
No chemicals, no media, no maintenance contracts. Just clean, efficient, protected systems.
-  **One-time investment. Long-term protection.**  
High value today. Higher savings every day.

## WHAT YOU DON'T PAY FOR LATER

-  **NO CHEMICALS**  
No recurring chemical cost. No storage. No handling. No risks.
-  **NO MAINTENANCE CONTRACTS**  
No filters to clean. No parts to replace. No hidden commitments.
-  **NO FREQUENT SHUTDOWNS**  
No scaling issues. No unplanned downtime. Higher uptime, higher productivity.
-  **NO EQUIPMENT DAMAGE**  
Scale-free systems mean longer life for heat exchangers, boilers, cooling towers and pipelines.
-  **Lower lifecycle cost. Higher reliability. Better productivity. More profits.**

## DESIGNED, TESTED & TRUSTED

-  **ISO 9001:2015**  
Quality Management Certified
-  **ISO 14001:2015**  
Environmental Management Certified
-  **CE Certified**  
European Standards Compliant
-  **RoHS Compliant**  
Safe for Environment & People

- ✓ Independently Tested for Performance & Safety
- ✓ No Chemicals. No Salt. No Discharge. No Environmental Harm.
- ✓ 100% Green Technology for a Sustainable Future
- ✓ Proven Technology. Global Installations. Trusted by Industries.

## WHY ENGINEERS & PLANT OWNERS CHOOSE PV WCS

-  **Scientifically Proven Technology**
-  **Robust Design for Industrial Duty**
-  **Consistent Performance, Every Day**
-  **Long Operational Life (10+ Years)**
-  **Sustainable & Future-Ready Solution**
-  **Backed by PV – A Brand You Can Trust**



**THE REAL COST IS NOT BUYING A SYSTEM...  
IT IS CONTINUING WITH SCALING, CHEMICALS AND INEFFICIENCY.**



Lower Energy Cost



Higher System Efficiency



Maximum Uptime



Protected Assets & Longer Life



Higher Savings. Better ROI.

# WHERE PV WCS DELIVERS VALUE. ACROSS INDUSTRIES. EVERY DAY.

*One Technology. Multiple Applications. Measurable Impact.*

 Reliable Performance | 
  Sustainable Operations | 
  Lower Costs | 
  Higher Efficiency | 
  Maximum Uptime



## INDUSTRIAL APPLICATIONS – PROVEN PERFORMANCE IN CRITICAL SYSTEMS

### COOLING TOWERS



- Prevents scale on fill & mist eliminators
- Improves heat transfer & airflow
- Reduces blowdown & water usage
- ➔ **Better cooling, lower energy & chemical cost**

### HEAT EXCHANGERS & CONDENSERS



- Prevents scale on tubes & plates
- Improves heat transfer efficiency
- Reduces fouling & pressure drop
- ➔ **Higher efficiency, lower energy consumption**

### BOILERS & STEAM SYSTEMS



- Controls scale in boiler & feed lines
- Improves steam quality & system safety
- Reduces fuel consumption
- ➔ **Safer operations, lower fuel cost & longer equipment life**

### PROCESS WATER SYSTEMS



- Maintains scale-free pipelines & vessels
- Ensures consistent flow & process quality
- Reduces cleaning & downtime
- ➔ **Consistent production, less downtime & higher productivity**

### CHILLERS & HVAC SYSTEMS



- Prevents scale in chillers & condensers
- Maintains efficiency of heat exchange
- Protects compressors & components
- ➔ **Stable performance, lower power & maintenance**

## COLD STORAGE & REFRIGERATION SYSTEMS – PROTECTING WHAT MATTERS

-  Prevents Scale in Condensers & Piping  
Ensures efficient heat rejection and optimal performance
-  Lower Power Consumption  
Clean systems consume less power and deliver more cooling
-  Protects Compressor & Components  
Reduces stress, wear and risk of breakdowns
-  Ensures Temperature Stability  
Better product quality, less spoilage and complaint-free operations

### WITHOUT PV WCS

Scale Build-Up. Higher Cost. Higher Risk.



Scaled Condenser Tubes



Scaled Piping



Low Efficiency & High Load

VS

### WITH PV WCS

Scale Controlled. Maximum Efficiency.



Clean Condenser Tubes



Scale-Free Piping



Efficient & Protected Compressor

### IDEAL FOR

-  Cold Storage Warehouses
-  Dairy & Food Processing
-  Frozen Food Units
-  Ice Plants
-  Pharma Cold Rooms
-  Commercial Refrigeration

### BUSINESS BENEFIT

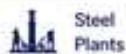
- ✓ Lower Energy & Operating Cost
- ✓ Higher System Life
- ✓ Less Breakdown & Maintenance
- ✓ Better Product Quality & Safety
- ✓ More Uptime. More Profit.



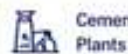
**TRUSTED ACROSS INDUSTRIES**



Power Plants



Steel Plants



Cement Plants



Textile Mills



Chemical Industries



Paper & Pulp Industries



Automotive Industries



Food & Beverage Industries

...and many more

“ From heavy industry to precision systems – PV WCS ensures **clean, efficient and protected operations** everywhere.



# WATER PROBLEMS DON'T END AT INDUSTRY.

Every Home, Building and Facility Faces the Same Scaling Challenge.

✓ Scale Protection | 💧 Better Efficiency | ⌚ Longer Life | ₹ Lower Cost | 🏡 Better Living

## COMMON WATER PROBLEMS IN HOMES & BUILDINGS

### WHITE STAINS ON TAPS & TILES



Hard water leaves stubborn white stains on every surface.

### GEYSER SCALING HIGHER BILLS



Scale on heating elements reduces efficiency and increases electricity consumption.

### BLOCKED SHOWERS & PIPELINES



Mineral deposits block shower heads and reduce water flow.

### APPLIANCE DAMAGE & SHORTER LIFE



Scaling damages washing machines, dishwashers and other appliances.

### FREQUENT CLEANING & MAINTENANCE



Tanks and pipelines need frequent cleaning, costing time and money.

## IDEAL FOR WIDE RANGE OF DOMESTIC & COMMERCIAL APPLICATIONS



 **APARTMENTS & HOUSING SOCIETIES**



 **HOTEL & RESORTS**



 **HOSPITALS & HEALTHCARE**



 **COMMERCIAL BUILDINGS**



 **SCHOOLS & INSTITUTIONS**

## HOW PV WCS MAKES A DIFFERENCE



### SCALE-FREE PLUMBING & FITTINGS

Keeps taps, tiles, and pipelines clean and scale-free.



### BETTER HEATER EFFICIENCY

Prevents scaling on heating elements for faster heating and lower energy bills.



### LONGER LIFE OF APPLIANCES

Protects washing machines, geysers and other appliances from scale damage.



### REDUCED MAINTENANCE

No more frequent descaling, cleaning or chemical treatment.



### CLEANER & HEALTHIER WATER SYSTEMS

Ensures better hygiene, comfort and peace of mind for your family and users.



**Better Water. Better Life.  
Every Day. Everywhere.**



Water behaves the same everywhere – only the scale of damage changes.



Protect what matters. Save what counts.  
Choose PV WCS for lasting protection.



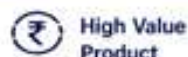
# A BIG OPPORTUNITY. ACROSS SEGMENTS. ALL YEAR ROUND.

*High Demand. Recurring Need. Strong Margins.*

 Control Water.  
Don't Fight It.



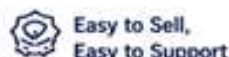
Large &  
Market



High Value  
Product



Recurring Demand  
& Repeat Business



Easy to Sell,  
Easy to Support



Long-Term  
Partnership

## MASSIVE MARKET OPPORTUNITY

Every sector uses water. Every sector faces scaling.  
Every sector needs PV WCS.



### INDUSTRIAL

- Manufacturing Plants
- Power Plants
- Textile, Paper, Cement
- Chemical Industries
- Process Water Systems



### COLD STORAGE & REFRIGERATION

- Cold Storage Warehouses
- Ice Plants
- Commercial Refrigeration
- Food Processing Units



### RO & FILTRATION SYSTEMS

- RO Plants
- Water Purification
- Desalination Plants
- Bottling Plants



### COMMERCIAL BUILDINGS

- Hotels & Resorts
- Hospitals
- Malls & Offices
- Institutions



### DOMESTIC

- Apartments & Villas
- Independent Houses
- Geysers & Appliances
- Plumbers & Dealers



ONE SOLUTION. MULTIPLE SEGMENTS. YEAR-ROUND DEMAND.  
ENDLESS BUSINESS POSSIBILITIES.

## WHY PARTNER WITH PV?



### PROVEN TECHNOLOGY

Trusted by industries  
across India



### SUPERIOR QUALITY

SS 304 build for  
long life & reliability



### STRONG SUPPORT SYSTEM

Training, marketing &  
technical support



### HIGH DEMAND PRODUCT

Essential, non-seasonal  
and repeat demand



### ATTRACTIVE MARGINS

Better margins with  
high customer value



GROW YOUR BUSINESS WITH A PRODUCT THAT SELLS ITSELF!

## EXCELLENT REVENUE POTENTIAL

| SEGMENT                                                                                                          | CUSTOMER TYPE                         | ORDER FREQUENCY                 | REVENUE POTENTIAL |
|------------------------------------------------------------------------------------------------------------------|---------------------------------------|---------------------------------|-------------------|
|  INDUSTRIAL                   | Plants, Factories, Process Industries | Project Based / Periodic        | 10%               |
|  COLD STORAGE & REFRIGERATION | Cold Storage, Ice Plants, HVAC        | New + Expansion / Ongoing       | 10%               |
|  RO & FILTRATION SYSTEMS      | RO Plant Owners, Water Plants         | Install + Replacement / Ongoing | 10%               |
|  COMMERCIAL BUILDINGS         | Hotels, Hospitals, Malls, Offices     | New Projects / Periodic         | 10%               |
|  DOMESTIC                     | Homeowners, Plumbers, Dealers         | Regular / Repeat                | 10% - 30%         |



DIVERSIFIED SEGMENTS = STABLE GROWTH + RECURRING REVENUE  
BUILD A STRONG, SUSTAINABLE & PROFITABLE BUSINESS WITH PV WCS.

\* Revenue potential varies based on application size, system capacity and market approach.

## AS OUR PARTNER, YOU GET



### AUTHORISED DEALERSHIP

Grow with a brand  
you can trust



### COMPETITIVE PRICING

Best margins,  
better profits



### MARKETING SUPPORT

Brochures, videos,  
digital & more



### TECHNICAL TRAINING

Product, installation  
& application



### AFTER SALES SUPPORT

We are with you,  
always



LET'S BUILD A SUCCESSFUL PARTNERSHIP THAT GROWS TOGETHER.



Stop Scale



Save Energy



Save Environment



Lower Maintenance



Reduce Cost

# SMART INVESTMENT. MEASURABLE RETURNS.

Lower Operating Cost. Higher System Efficiency. Faster Payback.



Protect  
Your Systems



Reduce  
Operating Cost



Improve  
Performance



Increase  
Profitability

## THE REAL COST OF DOING NOTHING

Scaling silently increases your costs every single day.



### HIGHER ENERGY CONSUMPTION

Scale acts as an insulator, increasing fuel & power usage.



### FREQUENT MAINTENANCE

More breakdowns, more man-hours, higher maintenance cost.



### CHEMICAL CONSUMPTION

Scale formation increases chemical dosage and blowdown.



### HIGHER BLOWDOWN LOSSES

Increases water, chemical and heat loss.



### EQUIPMENT DAMAGE & DOWNTIME

Reduced equipment life and unplanned shutdowns.



**YOU ARE ALREADY PAYING –  
JUST NOT NOTICING IT.**

## SAVINGS & BENEFITS WITH PV WCS

PV WCS controls scale at the root and delivers continuous value.



### ENERGY SAVINGS

Improved heat transfer & system efficiency



5 – 15%  
Reduction



### MAINTENANCE SAVINGS

Less breakdowns & cleaning frequency



20 – 40%  
Reduction



### BLOWDOWN REDUCTION

Lower TDS build-up, lower blowdown



20 – 50%  
Reduction



### RO MEMBRANE LIFE

Less scaling, less fouling, longer membrane life



30 – 50%  
Increase\*



Lower Cost | Higher Efficiency | Better Reliability  
Stronger Bottom Line

\* Results are indicative and may vary based on water quality and operating conditions.

## PAYBACK THAT MAKES SENSE

### Typical Payback Model (Indicative)

Actual results may vary based on application & water quality.



Typical Investment

Varies with system capacity  
(flow, pipe size, application)



Estimated Monthly Savings

Driven by energy,  
maintenance &  
water savings



Payback Period

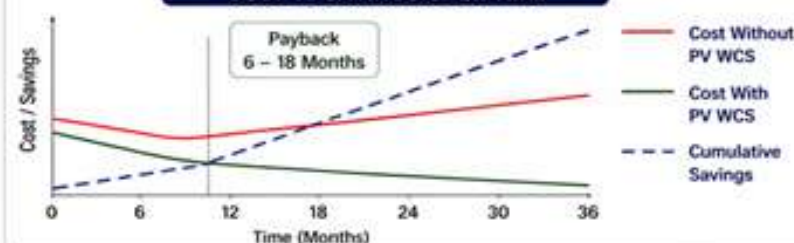
**6 – 18  
Months**



Post Payback

**100% Savings  
Direct to Profit**

### COST vs SAVINGS OVER TIME



**THIS IS NOT AN EXPENSE.  
THIS IS A COST-REDUCTION SYSTEM.**



**INVEST ONCE.  
BENEFIT FOR YEARS.**



**AFTER PAYBACK,  
EVERY SAVING GOES DIRECTLY TO YOUR PROFIT.**



Stop Scale



Save Energy



Save Environment



Longer Life



Reduce Cost



# WHY PARTNER WITH PV?

*A Partner You Can Trust. A Technology You Can Count On.*



Proven  
Technology



Trusted  
Quality



Partner  
First Approach



Strong  
Support



Grow Together,  
Win Together



Control Water.  
Don't Fight It.

## POWERFUL TECHNOLOGY. PROVEN RESULTS.



### Advanced Polymeric Technology

PV WCS uses advanced, eco-friendly polymeric technology that prevents scale without chemicals or salt.



### Proven Across Industries

Successfully used in thousands of systems across industries, commercial and domestic applications.



### Safe, Non-Corrosive & Environment Friendly

Does not alter water chemistry, non-corrosive, non-toxic and safe for people, equipment and environment.



### Reliable & Consistent Performance

Consistent scale control, improved efficiency and extended equipment life – every day, every time.



### Tested. Trusted. Time Proven.

Backed by lab testing, field results and years of customer satisfaction.



We don't just supply a product.  
We build **long-term partnerships.**

## BUILT FOR OUR PARTNERS' SUCCESS



### Partner-First Approach

We grow when you grow. Your success is our success.



### Training & Technical Support

Complete product training, technical documentation and application guidance.



### Easy Installation, Low Maintenance

Simple installation, no moving parts, zero maintenance.



### Timely Delivery & Availability

Strong supply chain and ready stock to meet your project needs.



### Attractive Margins & Business Growth

High demand product with repeat business and excellent margins.



TRUSTED BY INDUSTRIES.  
VALUED BY PARTNERS.



Manufacturing



Cold Storage



Water Treatment  
(RO & Filtration)



Hotels & Resorts



Hospitals



Commercial  
Buildings



Residential  
Communities



And Many  
More...

“ Choosing PV means choosing **reliability, performance** and a partner who stands with you – **always.** ”



## PV WATER CONDITIONING SYSTEM (WCS)

Control Water. Don't Fight It. | **We control how minerals behave.**



Stop Scale



Save Energy



Save Environment



Longer Life



Reduce Cost

12

# INSTALLATION MADE EASY. SUPPORT THAT STAYS.

*From Site Survey to Long-Term Support – We Are With You, Always.*



Quick  
Installation



Minimal  
Disruption



Zero Moving  
Parts



Easy to  
Maintain



Always Here  
for You

## SIMPLE & SMOOTH INSTALLATION PROCESS



No electricity. No chemicals. No moving parts. Just install and forget.

## EASY TO INSTALL IN ANY SYSTEM



COOLING TOWER



BOILER



RO PLANT



PUMPING SYSTEM



HVAC SYSTEM



Our goal is your  
hassle-free operation  
and long-term success.



Installation Time  
**2 – 4 Hours\***

\*Depends on system size



No Civil Work  
Required



Low Maintenance  
Zero Hassle



Instant Protection  
Lifetime Benefits



Minimal Capex  
Maximum Returns



Stop Scale



Save Energy



Lower Maintenance



Longer Life



Reduce Cost

# FREQUENTLY ASKED QUESTIONS (FAQ)

*Clear Answers. Complete Confidence.*



Clear & Honest  
Information



Trusted  
Technology



Proven  
Performance



Always Here  
for You



Your Success  
is Our Priority



Control Water.  
Don't Fight It.



**Q: How does PV WCS work?**

**A:** PV WCS modifies the physical properties of water to prevent scale formation. It keeps dissolved hardness in a stable, non-scaling form without using any chemicals or salt.



**Q: Does it use any chemicals or salt?**

**A:** No. PV WCS is a chemical-free, salt-free and maintenance-free solution.



**Q: Does it require power to operate?**

**A:** No. It works without electricity. It is a passive technology with zero power consumption.



**Q: Is installation difficult?**

**A:** Not at all. It is easy to install with standard piping connections. No civil work or special tools required.



**Q: How much maintenance does it require?**

**A:** Virtually zero maintenance. Just a periodic visual inspection is recommended.



**Q: Will it affect water quality?**

**A:** No. It does not change the chemical composition of water. It only conditions the water to prevent scale.



**Q: What are the key benefits?**

**A:** Prevents scale, improves efficiency, reduces maintenance, saves energy, extends equipment life and lowers operating cost.



**Q: How long does it last?**

**A:** PV WCS is designed for long life – typically 10–15 years or more depending on water conditions.



**Q: Is it suitable for high TDS water?**

**A:** Yes. It is effective for a wide range of TDS and hardness levels. Our team will recommend the right model for your application.



**Q: Can it be used with RO or other systems?**

**A:** Yes. It is ideal as a pre-treatment for RO, Boilers, Cooling Towers, Chillers and all water-using systems.



**Still have questions?**  
We're here to help.



Contact our expert team for personalized assistance and the best solution for your water challenges.



**Right Information.**  
**Right Solution. Right Partner.**



Stop Scale



Save Energy



Save Environment



Longer Life



Reduce Cost



# CONTROL WATER. DON'T FIGHT IT.

*A smarter way to manage water.  
A stronger way to grow your business.*

**PV WCS is not just a product.  
It is a smarter approach to water.**



**Control Water.  
Don't Fight It.**



## **NO CHEMICALS**

100% chemical-free solution.  
Safe for people, equipment  
and environment.



## **NO MAINTENANCE HASSLE**

No moving parts.  
Minimal to zero maintenance  
for years.



## **ENERGY & COST SAVING**

Improves efficiency, reduces energy  
consumption and cuts operating  
costs significantly.



## **LONG-TERM RELIABILITY**

Built for durability.  
Consistent performance.  
Long service life.



**We are not looking for customers.  
We are building long-term partners.**

When you succeed,  
we succeed together.



**Let's grow together.  
Let's lead the change.**



**Let's explore opportunities together. | Join us as a PV WCS Partner. | Start building a high-value business.**

**LET'S CONNECT!**  
**We are here for you.**



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**BETTER WATER. BETTER SYSTEMS. BETTER BUSINESS.**

*Thank You!*

We look forward to a successful partnership.