



CRITICAL ENVIRONMENTAL SOLUTIONS

Energy • Air • Water



Company Overview

Critical Environmental Solutions is a clean technology delivery company for sustainable goal achievement

Core Competencies

- Clean technology experts
- Sustainable operations
- Water and energy savings
- Indoor air quality
- Health, safety & wellness
- Compliance assurance
- Green House Gas reduction

Air / Energy

Past Performance:

- Air purification, US Department of Defense
 - Improved indoor air quality (infection control) / \$56,996 annual energy savings
- Duct Sealing, Fort Drum (New York) Army Base Housing Development
 - 3,600 homes sealed
 - Reduced gas use by 47% / ROI <34 months
 - Key project to achieve Energy Star Rating

Water / Energy

- Cooling Towers, Nellis Air Force Base, Nevada
 - Eliminated salt and chemicals / ROI <7 months
 - Stopped scale, bio and algae from occurring
 - Lowered maintenance
- Filtration, Denver Federal Center, Colorado
 - Reduced 99.5% of air and dirt in plumbing systems
 - Reduced energy use by 10%
 - Stopped corrosion / saved water
 - ROI <6 months

Key Awards: For Product Innovation and Efficiency

- Solar Impulse Label (2021)
- Water Environment Federation (2018)
- National Restaurant Association (2015)
- ACHR Dealer Design Awards (2) Efficiency and Ventilation (2016)
- AHR Innovation Award (2020) IoT Air monitoring and air purification

Differentiators:

- Experts in aligning policy goals and technology
- Trials / pilots available
- Eco-friendly / no chemicals or byproducts
- Highly trained on patented technology
- SDVOSB
- Central location / easy access to many installations
- Energy, air and water solutions under one roof

Improving:

- Water quality and consumption
- Indoor air quality (IAQ / IEQ)
- Infection control (Covid-19 & Legionella)
- Health / safety / welfare / productivity

Reductions:

- Greenhouse gases (GHG)
- Energy
- Chemicals
- Water use
- Maintenance

Benefits:

- Multiple applications
- Practical / easy installations
- Energy savings guarantees
- Assured compliance
- Sustainability achievements
- Reliability

NIACS Codes:

238220, 561720, 423830, 561210, 541330, 423720, 561720, 334512, 333413, 541690

DUNS

078541696

CAGE Code:

68VX5

Critical Environmental Solutions (CES) SDVOSB

Delaware S-corporation (2012)

CES delivers disruptive clean technology to solve common energy, air and water challenges in the built environment. Policy driven product selection, environmentally friendly and practical applications.

Key Memberships / Associations



Contact: Bob Soffel, Owner

Office: 502.512.1033

Cell: 859.621.6751

Email: Bob@ces.works

www.ces.works

Testimonials

I can tell you in brief that we installed a HYDROFLOW device on one of our cooling towers about a year ago and have not utilized any industrial water treatment chemicals at all in the last 9-10 months of operation. All scale was removed by the device, there has been no bio-fouling or return of scale matter since the removal of chemicals.

James Romero

99 CES, CEOIH

HVAC/MECHANICAL/CONTROLS SYSTEMS FOREMAN, Nellis Air Force Base

We have tested multiple technologies. One thing we quickly noticed is that the AtmosAir systems are reliable and AtmosAir works. We have had good success with the product and have installed them in a number of buildings.

Dennis Bonair, Chief Engineer, Fort Benning



Critical Environmental Solutions saves water, easily.



Water Savings

Core Competencies

- Water technology
- Clean technology
- Sustainability
- Turn-key delivery

Salt and Chemical Free

Water conditioning

- Dissolve and remove existing scale
- Prevent new scale accumulation
- Enhances filtration efficiency
- Treats bacteria and algae
- Inhibits corrosion
- Increases cycles of concentration

Additional Benefits

- Chemical Reduction
- Energy savings / M&V
- Reduced maintenance
- Easy Install / no cutting
- Easily achieve compliance
- Multiple applications
- Immediately effective
- Improve reliability
- Improve life-cycle
- Effective Legionella control

Past Performance: (sole source)

1. Cooling Towers, Nellis Air Force Base, Nevada
 - Eliminated salt and chemicals / ROI (7 months)
2. Heat Exchangers, Milan Federal Correctional Institution, Michigan
 - Eliminated salt and chemicals / ROI (12 months)
3. Struvite control, City of Orlando Wastewater Treatment Plant, Florida
 - Stopped struvite scale / reduced polymer 20% / ROI (9 months)

Key Awards: For Product *Innovation and Efficiency*

- Solar Impulse Label (2021)
- Water Environment Federation (2018)
- National Restaurant Association (2015)

Differentiators:

- Multiple ideal applications
- Trained experts on patented technology
- Trials available / service agreements
- SDVOSB
- Central location / easy access to many installations
- Immediately effective / measurement and verification
- Certified organic / agricultural applications

Critical Environmental Solutions (CES) SDVOSB

Delaware S-corporation (2012)

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Key Associations



Testimonials

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James Romero
99 CES, CEOIH
HVAC/MECHANICAL/CONTROLS SYSTEMS FOREMAN

The trial period clearly showed that the HydroFLOW device was superior to chemicals at keeping the chiller / tower system clean and scale free.
George Kotselas, Trane Southwest District. Healthcare and Industrial Account Manager

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Agriculture

Core Competencies

- Sustainability
- Water quality
- Water savings
- Turn-key delivery

Critical Environmental Solutions delivers clean technology for agriculture and aquaculture operations for sustainability

Past Performance: (sole source)

Irrigation ponds - Vineyard, California

- 90% reduction in algae, reduced water use and maintenance / ROI 18 mos.

Condensers for cleaning produce – Apple Orchard, Washington

- Eliminated scale, bio and algae system wide
- Reduced water, chemical use and maintenance / ROI 12 mos.

Greenhouse – Amsterdam

- Reduced water and chemical use
- Reduced scale, bio and algae
- Aids in nutrient absorption

Corn crop – California

- Increased yield by <30%, Reduced water and fertilizer by 50%
- Improved color, root systems and overall health of crop

Key Awards: For Product *Innovation and Efficiency*

- Solar Impulse Label (2021)
- National Restaurant Association (2015)
- Water Environment Federation (2018)

Differentiators:

- Clean technology technical experts
- Trials available / service agreements
- SDVOSB
- Central location / easy access to many installations
- Replaces UV lighting
- Certified Organic

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Key Associations



Testimonials

"Seeing this is believing the product, and I am confident that HydroFLOW is the cause of the putting green being the healthiest of any area on the course. The turf has better color, and it seems that we will be able to irrigate less water since the roots are longer and able to absorb water and fertilizer better than other areas"

**Danny Atchison, Golf Course Superintendent
Jersey Meadows Golf Course**

"The results were excellent! The water was clean and clear with just and electric signal! This 100% green technology really works. We are very pleased with the results..."

**Ron Baron, Owner
Baron Farms, Wapato, Washington**

- Stop scale in fixtures / nozzles / plumbing
- Reduce surface tension
- Increased crop yield
- Reduce algae and fungus
- 99% biological kill

Additional Benefits

- Improved absorption
- Reduced maintenance
- Chemical Reduction
- Enhanced filtration
- Easy Install / no cutting
- Immediately effective

USDA / WSDA Certified

2746 - Irrigation water treatment

2790 – Process water treatment

DUNS # CAGE Code:

078541696 68VX5

NIACS Codes:

1114, 541715, 423820



Water Conditioning

Marine

Critical Environmental Solutions is an exclusive, sole source distributor for *HydroFLOW-USA* // SDVOSB

Past Performance: (sole source)

Ray Car Carriers Ltd.: Fresh-water generator / fresh-water systems

- o <60 ships equipped / reduced chemicals, maintenance and damage

MV Hoegh America: Fresh-water generator / fresh-water systems

- o reduced maintenance downtime from 24-48 hours to 2 hours

MV Hermes Leader: Fresh-water generator / fresh-water systems

- o Stopped scale and biofouling / reduced maintenance / replaced UV sterilizer
- o Improved performance / reduced risk of chemical damage & hazard

Key Awards: For Product Innovation and Efficiency

- Solar Impulse Label (2021)
- Water Environment Federation (2018)
- National Restaurant Association (2015)

Differentiators:

- Salt and chemical free water conditioning
- Patented / sole source
- Trials available
- SDVOSB / policy driven
- Central location / easy access to all mainland installations

Critical Environmental Solutions (CES) SDVOSB

Delaware S-corporation (2012)

CES delivers proven and disruptive clean technology to solve common energy, air and water challenges in the built environment. Policy driven product selection, environmentally friendly and practical applications.

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Core Competencies

Chemical Free

Water Disinfection

- Higher yields
- Increased feed conversion efficiency
- Reduced parasitic, bacterial and fungal infection.
- Reduced bacterial counts
- Lower morbidity
- Lower mortality
- Reduced medications and chemicals
- Superior to UV lighting

Additional Benefits

- Chemical Reduction
- Enhanced filtration
- Reduced maintenance
- Easy Install / no cutting
- Reduced regulatory pressure
- Reduced trade barriers
- Supports 'organically grown'
- Enhanced public perception

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NIACS Codes:
236210, 112519, 112519,
541715

Key Associations



Testimonials

"It clearly demonstrated that this method of water treatment greatly reduces maintenance costs, equipment damage and chemical usage."

With such good results, Ray Shipping ordered the Hydropath Marine solution for all our vessels in the fleet. I can safely say that Hydropath Marine solutions is one of our best investments done on our vessels.

Omri Dagul, Executive VP Ray Shipping Ltd.



Critical Environmental Solutions is a clean water technology delivery company for modern sustainability goal achievement



Filtration and corrosion

Core Competencies

- Water technologies
- Sustainability
- Policy and purchasing

Past Performance: (sole source)

- Atlanta Public Schools, Georgia
 - Stopped corrosion. 99% reduction of air and dirt.
 - Estimated water and chemical savings will approach 80%.
 - No need to ever again flush the system.
- Denver Federal Center, Colorado
 - Reduced energy use by 10%
 - Reduced 99.5% air and dirt in plumbing systems
 - Stopped corrosion
 - 3 additional buildings treated
 - ROI – less than 6 months

Key : For Product *Innovation and Efficiency*

- Solar Impulse Label (2021)
- Water Environment Federation (2018)
- National Restaurant Association (2015)

Differentiators:

- Investigative group for modern clean technology
 - Multiple aftermarket problem solvers
- Highly trained on patented / sole source applications
- SDVOSB
- Central location / easy access to many facilities

Critical Environmental Solutions (CES) SDVOSB

Delaware S-corporation (2012)

CES investigates and delivers disruptive clean technology to solve common energy, air and water challenges in the built environment. Policy driven product selection, environmentally friendly and practical applications.

Air and Dirt Separation

- Remove microscopic air and dirt particles
- Stop pipe corrosion & fouling
- Improve system efficiency by 10%+
- Minimal increase in pressure drop
- Media is permanent & virtually maintenance free
- Works on hot, chilled & condensed water systems

Additional Benefits

- Energy (GHG) savings
- Water savings
- Chemical Reduction
- Enhanced filtration
- Reduced maintenance
- Easy Install / no cutting
- Clear water
- Clean equipment
- Longer service life

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Key Associations





Critical Environmental Solutions delivers clean technology for modern water management

Past Performance: (sole source)

1. Polymer reduction, drier cake solids – Somersworth, New Hampshire
 - Stopped struvite scale on centrifuge
 - Polymer reduction 15% = cake 24% TS / centrate 718mg
 - Third party verification / Jacobs Engineering
2. Struvite control, Robert W. Hite Treatment Facility - Denver, Colorado
 - Stopped struvite scale from forming / removed existing scale
 - Third party verification / ch2m Engineering
3. Struvite control, City of Orlando Wastewater Treatment Plant, Florida
 - Stopped struvite scale / reduced polymer 20% / ROI (9 months)

Key Awards for Product *Innovation and Efficiency*

- Solar Impulse Label (2021)
- Water Environment Federation (2018)
- National Restaurant Association (2016)

Articles

- Water and Wastes Digest (2018) *More Hydropath, Less Polymer*

Differentiators:

- Investigative group for modern clean technology
 - Water treatment specialty
- Easy installation / no disruption / immediately effective
- Highly trained on specialized, sole source technologies.
- SDVOSB
- Trials / leases / service agreements
- Central location to many plants

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Critical Environmental Solutions (CES) SDVOSB

Delaware S-corporation (2012)

CES delivers high performance, modern technology to solve common energy, air and water challenges in the built environment. Federal policy driven product selection, environmentally friendly and practical applications.

Testimonials

After 10 days of use, there was a marked reduction in the amount of Struvite buildup and eventually the Struvite had softened to the point that it could be wiped off by hand. Additionally, there was approximately a 20% reduction polymer usage. Production of a more consistent press cake was achieved. I would recommend the installation of this unit. It will pay for itself in a short period of time labor and polymer savings.

Steve Shelnett

Plant Manager, Water Conserv II

Water Conserv II Water Reclamation Facility, Orlando Florida

The HydroFLOW device not only reduced the rate of struvite accumulation, it actually started to soften up existing deposits! We are allocating funds to purchase... I recommend HydroFLOW for struvite treatment in anaerobic wastewater treatment plants.

Dan Leavitt, Superintendent City of London Wastewater Department, Ohio

Wastewater Treatment

Core Competencies

- Clean water technologies
- Sustainability
- Wastewater treatment
- Turn-key delivery

Wastewater Treatment

- Dissolves and removes existing scale
 - Struvite / vivianite
- Prevent new scale accumulation
- Polymer reduction
- Drier cakes / improve centrate
- Improves flocculation
- Treats bacteria and algae (biofouling)
- Inhibits corrosion

Additional Benefits

- Easy Install / no cutting
- Reduced maintenance
- Immediately effective
- Chemical free
- Legionella protection
- Multiple applications

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Critical Environmental Solutions delivers Indoor air quality and energy savings



Computerized Duct Sealing

Core Competencies

- Building Ventilation
- Energy saving
- Indoor air quality

Computerized Duct Sealing

- Improve:
 - Infection control
 - Ventilation
 - Filtration
 - Humidity control
 - Pressurization
 - Indoor air quality
 - Comfort
- Reduce energy use
- Achieve compliance

Additional Benefits

- Immediate, certified results
- Fast, guaranteed
- Reduced maintenance
- Reduced noise
- Reduce Greenhouse Gases

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Past Performance:

1. Fort Drum (New York) Army Base Housing Development : 3,600 homes sealed
 - Achieved Energy Star // reduced gas use by 47% // ROI 34 months
2. Pfizer (manufacturing facility, Puerto Rico)
 - No demolition or disruption // exceeded compliance //ROI 11 months
3. Los Angeles Unified School District (California): Meet compliance / ventilation
 - Improved indoor air quality (infection control) // ROI 14 months

Key Awards: For Product Innovation and Efficiency

- Environmental Leader Magazine Product of the Year (2018)
- Green Builder Product Innovation of the Year (2019)
- ACHR Dealer Design Awards (2) Efficiency and Ventilation (2016)

Differentiators:

- Investigative group for modern clean technology
 - Multiple aftermarket problem solvers
- Ventilation (IAQ) specialists
- SDVOSB
- Central location / easy access to many facilities

Company Overview

Critical Environmental Solutions (CES) SDVOSB

Delaware S-corporation (2012)

CES delivers high-performance clean technologies that solve common, current challenges for indoor air quality for safety, health and wellness.

Key Associations



Testimonials

"I was getting quotes for an overhaul of the HVAC system that ran \$1 million to \$2 million dollars – it would have taken decades to pay back. We opted instead to seal the ductwork with AeroSeal. That dramatically improved the efficiency of the current system, allowed us to reduce energy use related to heating and the use of exhaust fans and it solved a lot of issues related to poor ventilation. We expect pay back on the duct sealing to take less than two years.

Jason Delambre

Energy Consultant

Interdependent Energies, LLC.

The reason we went with AeroSeal is that it is so much easier to apply in an existing building. Unlike traditional manual sealing, we did not have to remove the ceiling tiles, unwrap and rewrap insulation or deal with other obstacles. It was all done quickly and without interruption to the rest of the building.

Dan Henderson

Project Engineer

H2Engineering Inc.



Critical Environmental Solutions is a Commercial Partner for AeroSeal technology // SDVOSB

Past Performance:

1. Fort Drum (New York) Army Base Housing Development : 3,600 homes sealed
 - Achieved Energy Star // reduced gas use by 47% // ROI 34 months
2. Pfizer (manufacturing facility, Puerto Rico)
 - No demolition or disruption // exceeded compliance // ROI 11 months
3. Los Angeles Unified School District (California): Meet compliance / ventilation
 - Improved indoor air quality (infection control) // ROI (14 months)

Key Awards: For Innovation

- Environmental Leader Magazine Product of the Year (2018)
- Green Builder Product Innovation of the Year (2019)
- ACHR Dealer Design Awards (2) Efficiency and Ventilation (2016)

Differentiators:

- Computerized, certified and immediate results.
- Faster / safer / easier / costs less than current methods
- Patented / guaranteed
- SDVOSB
- Central location / easy access to many federal installations

Critical Environmental Solutions (CES) CVE SDVOSB

Delaware S-corporation (2012)

CES delivers emergent technology to solve common energy, air and water challenges in the built environment. Federal policy driven product selection, environmentally friendly and practical applications.

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Testimonials

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Jason Delambre

Energy Consultant (Capital Plaza Hotel and Convention Center, Frankfort, Kentucky)
Interdependent Energies, LLC.

The reason we went with AeroSeal is that it is so much easier to apply in an existing building. Unlike traditional manual sealing, we did not have to remove the ceiling tiles, unwrap and rewrap insulation or deal with other obstacles. It was all done quickly and without interruption to the rest of the building.

Dan Henderson

Project Engineer
H2Engineering Inc.

Core Competencies

- Sustainability
- Indoor air quality

Duct Sealing

- Improve ventilation
- Improve exhaust
- Improve filtration
- Improve indoor air quality
- Reduce energy use
- Achieve compliance
- Certified seal rate

Additional Benefits

- Immediate results
- Fast, guaranteed
- Reduced maintenance
- Reduced noise
- Reduce Greenhouse Gases
- Test and balance compliant

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NIACS Codes:
**238220, 561790, 561720,
562910**

Key Associations





CRITICAL ENVIRONMENTAL SOLUTIONS

Energy • Air • Water

Critical Environmental Solutions delivers indoor air quality and energy savings products for new and existing construction

Building Envelope Sealing



Core Competencies

- Building Envelope
- Energy saving
- Indoor air quality
- Health and wellness

Past Performance:

1. Herriman, UT (600-unit multi-family development)
 - Reduced energy consumption and upfront mechanical costs
2. Manhattan, NYC
 - Passive house achieved in 6-story 34-unit building.
3. Residential homes
 - Net zero achieved. 60 solar panels reduced to Eight.

Key Awards: For Product Innovation and Efficiency

- Environmental Leader Magazine Product of the Year (2018)
- Green Builder Product Innovation of the Year (2019)
- ACHR Dealer Design Awards (2) Efficiency and Ventilation (2016)

Differentiators:

- Trained and certified installers
- Indoor Air Quality (IAQ) technology specialists
- Products individually or a suite of complimentary products under one roof.
- SDVOSB – we run a tight ship (USN)
- Central location / easy access to many facilities
- Policy and purchasing professionals

- Reduce energy use
- Achieve compliance
- Improved comfort
- Improved indoor air quality
- Prevent moisture
- Diminish noise
- Defend against insects and pests

Additional Benefits

- Immediate, certified results
- Fast, guaranteed
- Reduced maintenance
- Reduce Greenhouse Gases
- Health and wellness

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 CES delivers high-performance clean technologies that solve common, current challenges for indoor air quality for safety, health and wellness.

Testimonials

Key Associations



The AeroBarrier technology consistently gave us the results we needed. By making air sealing a dependable process, we were able to make changes in the design phase that were critical to this project's success... AeroBarrier gave us the confidence to not overcompensate with an oversized HVAC system to hit our performance goals. This cut our HVAC costs in half and reduced the amount of capital invested in mechanicals.

Josh Roy
 Vice President of Sustainability
 The Wasatch Group

AeroBarrier may be the most important innovation to hit the building community in years. We were seeking a tighter building envelope and AeroBarrier answered the call. The technology is easily deploy-able in the field, delivers results immediately which is invaluable, and

Geoff Ferrell *works well in a fast-paced production environment.*
 Chief Technology Officer
 Mandalay Homes



Critical Environmental Solutions is a
Indoor air quality / COVID-19 response company

Past Performance:

1. US Department of Defense
 - o Improved indoor air quality (infection control)
 - o \$56,996 annual energy savings
 - o Safety, health and wellness improvement
2. University of Southern California (USC): Reduced risk / improved air quality
 - o VOC reduction 90% / PM2.5 reduction 50% / PM10 reduction 95%
3. University of Virginia: Leake Building
 - o Immediately noticeable improvement in air quality
 - o 50% reduction in outside air

Key Awards: For Product Innovation and Efficiency

- AHR Innovation Award (2020) IoT Air monitoring and air purification

Lab Tested:

- Microchem Laboratory (TX), *Coronaviruses* (COVID-19) reduced 99.92% in < 30 minutes. Continuous disinfection of occupied spaces.

Differentiators:

- Technical investigation firm for best-in-class covid-19 response
- Dielectric barrier discharge bipolar ionization (it's different)
- Air and surface infection control / occupied spaces
- Consistent and durable
- Lab tested / long term results / 3rd party
- SDVOSB
- Central location / easy access to many US facilities

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Key Associations



Testimonials

"We have tested multiple technologies. One thing we quickly noticed is that the AtmosAir systems are reliable and AtmosAir works. We have had good success with the product and have installed them in a number of buildings"

Dennis Bonair, Chief Engineer, Fort Benning

"I have been working with AtmosAir for years in the US, where we have installed the system successfully on several projects. AtmosAir delivers indoor air quality without emitting ozone. The system reduces viruses, VOC's, PM, bacteria, allergens and the negative impact on health and wellness of the occupants is quantifiable. We have tested AtmosAir in over 300 different spaces for results" (1.5M square feet)

**Dana Schnieder, Portfolio Manager, JLL/ESRT
Empire State Realty Trust**

Bipolar ionization (DBD BPI)

Core Competencies

- Air and surface infection control
- Indoor Air Quality (IAQ)
- Sustainability
- Health and welfare



Bipolar ionization (DBD BPI)

- Safety, health and wellness
- Continuous disinfection
 - Air and Surfaces
- Eliminate or reduce airborne:
 - VOC's
 - Allergens
 - Molds
 - Viruses, bacteria
- Improved productivity / attendance
- Assured Indoor Air Quality
 - Monitoring
- Guaranteed Energy Savings
- Immediate results

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