

PARTNERS:

- **DCT - Dust Control Technologies** – Dry Fog Dust Suppression systems
- **Scientific Dust Collectors** – Efficient small footprint
- **DUROVAC VACUUMS – PENN MATERIAL RECOVERY SYSTEMS**
Mobile or Central Heavy Duty Mining Vacuums / Long distance Hi Vacuum / Electric or Diesel
- **NANOZEN - Only wearable particle counter and sampler on the market**
- **Stanton Systems** – Truck Tire & Trwater wash systems / Pod water recycling
- **Redkoh** – Electrostatic Precipitator Controls / Opacity monitors / EPA compliant monitors / Combustion monitors O2 NOx / Baghouse monitoring systems
- **CEREX** – CEMS Multi-gas monitors / Portable ambient air gas monitors
- **Ambient Air Monitors** – Fugitive Dust Monitors to sample/ detect / report PM10 PM2.5
- **Auburn Systems** – Triboelectric Dust collector monitors / Broken bag detectors
- **Hotfoil EHS** – Hopper heaters / Heat trace / High Elevation - Keep it flowing
- **WEATHERSOLVE Wind Screens** – Stockpile preservation / Save valuable product !
- **Clothes Cleaning Systems** – Remove 95% of dust from worker clothes in 18 seconds
- **Mine Ventilation** – Studies, evaluations, Fans, equipment supply.
- **Dust Collector Accessories** – Filter bags (poly, nomex, fiberglass etc.)
All dust collector OEM's, Cages, dp monitors, solenoids, controls.
- **UAV Services** – Unmanned Aerial Vehicle data collection and analysis services
- **EASY BAR - Specialty KILN TIRE lubricant / Extended wear life / #1 in market**
- **Engineering Services** – Complete on site Environmental services

Additional information can be found on our website at <http://www.PENNVINT.com>

We look forward to working with you to provide you with long term sustainable solutions.

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DIRECTOR INTERNATIONAL GROUPS

SOME OF OUR CLIENTS



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COMPLETE AIR MANAGEMENT SOLUTIONS

COMPLETAS SOLUCIONES AMBIENTALES



TRUST

KNOWLEDGE

EXPERIENCE

ESTABLISHED 1984

35

THIRTY FIVE YEARS

The Finest of North American Engineering
Thank you to all our valued customers and suppliers

PENNVINT celebrated 35 years of serving the international heavy process industry in 2019 ! We are a US based company focused on air quality, production efficiency, asset management and improve the working conditions within the international heavy duty material handling industry. The Environmental Group is exclusively focused on the international mining, cement, port terminal, power generation, steel and similar industries.

PENNVINT has established a unique approach to engage the environmental air management problems experienced in the mineral and heavy process industries. Developed through years of experience in the most demanding industries, a portfolio of solutions have been designed specifically to meet these special applications.

VALUABLE INDUSTRY PARTNER

The foundation of the **PENNVINT** Environmental Group and the value to the market is based on viewing the big picture and the overall process to provide you situational awareness of your assets in real time and allow you increased control of your processes. We offer various levels of engineering studies, supply of equipment and data collection methods. The solutions are designed to work in combination, supported by local service to provide long term solutions. An organized group of solutions working together in unison act as a force multiplier to actively engage dust control, material handling issues, particulate & gas emission control and monitoring. Together the impact will produce beneficial results.

ENGINEERING STUDIES

Through engineering studies onsite data can be collected which is valuable in evaluating present conditions and recommending fact based solutions that produce proven results. Through well established engineering based methods our team can collect the necessary data to evaluate BACT - Best Available Control Technologies to control, contain, and return valuable product to the process. In other areas of your process, the goal is to Remove / Reduce / Filter / Monitor the particulate and gases from the process.

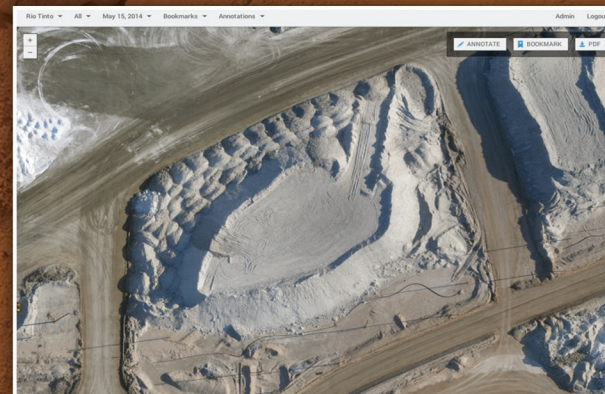
MEASURABLE RESULTS

PENNVINT Environmental Group will achieve measurable results to meet your environmental and sustainability goals. An example of how we can achieve results for your production process, we offer:

1. Studies - Conduct environmental evaluations and studies
2. Report - Produce comprehensive reports
3. Recommend - Provide process and environmental management recommendations
4. Design, Supply, Construct & Commission or EPCM
5. Support - Service & maintenance via trained "in country" service representatives

FROM CRUSHER TO SMELTER

As an example, in mining **PENNVINT** can provide custom solutions along all phases from **CRUSHER TO SMELTER**. The engineered solutions can positively impact each stage of the process from the Primary, Secondary, Tertiary crushers to the transfer points, underground tunnels, stockpiles, rail loading / discharge systems, shiploading conveyors followed through to complete combustion & contamination control systems and monitoring instruments at the outlet of the smelter stack. Cost effective proven solutions from **CRUSHER TO SMELTER**.



THE PENNVINT ENVIRONMENTAL GROUP

Focused Mechanical & Instrumentation solutions we have supplied:

MECHANICAL

- Dust suppression
- Dust containment
- Material recovery systems
- Dust collectors
- Environmental Engineering
- Sidewall Belting
- Industrial Vacuums
- Cascading Chutes
- Belt scrapers Skirting Sealing
- Pneumatic Conveyor Systems
- Vac and Pneumatic Pipe Design
- ESP mechanical upgrades
- Bin vents
- Hopper Heaters
- Mine Ventilation
- Rail & Truck Wash
- Load out spouts
- Clothes Cleaning Systems
- WINDFENCES

INSTRUMENTATION

- Stack Monitors – Particulate and Gas analyzers
- NANOZEN Ambient Air monitoring PM2.5 PM10...
- Stockpile monitoring and erosion analysis
- ESP - Precipitator Control Systems
- Dust Collector monitoring systems
- CMMS (Computerized Maintenance Management Systems)
- BACT - Best Available Control Technology
- UAV – Unmanned Aerial Vehicles for Situational Awareness, Data Collection & Analysis.



LOCAL SERVICE

PENNVINT developed over 30 engineer based representatives in 20 countries trained to provide continued support on mechanical and instrumentation solutions. This ongoing service support is very important to our commitment of providing the "The Complete Air Management Solution "

Working with your organization, we understand the individual issues of your industry from the view of each manager:

- | | | | | |
|---------------|-------------------|---------------|--------------|--------------------------|
| • ENGINEERING | • MAINTENANCE | • ENVIRONMENT | • PURCHASING | Projects in 58 countries |
| • PRODUCTION | • HEALTH & SAFETY | • FINANCE | And More | |

Simple clear and direct, we analyze, recommend, supply, install and maintain. We take responsibility to get the correct solution delivered to each country from Chile to Indonesia. Our group will work together with each department to get the job done within a time and budget.