**What sets us apart?**

- **PlantGard**: continuous measurement and surveillance of gas stream cleanliness, data logging, -- 24/7
- **Onsite contaminate monitoring, onsite bench-scale testing, contaminate management surveys and testing.**
- PlantGard** is geared towards the full spectrum of the most rigorous applications.
- **PECO Facet** is a leader in the development and implementation of contaminate management solutions that perform under a variety of contaminate and loading conditions. Our process starts with analyzing process issues, and identifying the contamination characteristics. Then applying a solution that is tailored around and to meet your specific needs. This is geared towards the full spectrum of the most rigorous applications.

**The increasing use of “opportunity crudes” presents many processing issues. These crudes, though high in volume, are not as easy or straightforward as the processing of the traditional crudes.** PECO Facet is in the development and implementation of sustainable contaminate management solutions that exceed the requirement that emerges process issues. Our process starts with analyzing process issues, and identifying the contamination characteristics. Then applying a solution that is tailored around and to meet your specific needs.

**PlantGard** is a continuous contaminant management system. PlantGard is a continuous contaminant management tool that finds continuous, realtime intelligences to users by defining gas streams cleanliness.

**Taking Contaminant Management to the Next Level**

- **Performance Verification**: Full Plant Filtration Optimization
- **Diagnostic Laboratory**: Full Plant Filtration Optimization
- **World Class Customer Service and Technical Support**: Full Plant Filtration Optimization
- **Global and Local Support**: Full Plant Filtration Optimization

**SEVICES**

- Onsite contaminant monitoring, onsite bench-scale testing, contaminant management surveys and testing,
- Diagnostic Laboratory
- Full Plant Filtration Optimization
- World Class Customer Service and Technical Support
- Global and Local Support

**CERTIFICATIONS**

- Pressure Vessels

**SOLUTIONS FOR**

- Petroleum Refining
- Coalescing, Filtration, Separation.
- Taking Contaminant Management to the Next Level
PECOFacet’s Contaminant Management System. PECO Facet. A new era in filtration performance & innovation. A leading global supplier of filtration solutions and services, PECO Facet offers innovative technologies and services aimed at keeping you ahead of the curve, especially in the filtration industry. We partner with you to understand your specific needs, enabling us to provide tailored solutions that meet your unique requirements.

**What sets us apart?**

- **Continuous Innovation:** We are dedicated to developing and implementing the latest technologies and methodologies to meet the ever-evolving needs of our clients. Our commitment to innovation is evident in our ongoing research and development efforts.
- **Industry Expertise:** Our team of experts is composed of highly skilled professionals with extensive knowledge in the filtration field, ensuring that we offer the most advanced solutions.
- **Customized Solutions:** We take a personalized approach to each project, understanding the specific requirements of our clients to provide solutions that are tailored to their needs.
- **Sustainability:** We are committed to sustainability and strive to reduce our environmental impact through efficient processes and the use of eco-friendly technologies.

**What we offer:**

- **Gas Stream Contaminant Management System**
  - **PlantGard** is a leading-edge contaminant management tool that continuously monitors, maintains, and identifies operational performance.
  - **Gas Stream Contaminant Management System**
    - **Benefits**
      - **Continuous Monitoring:** Real-time, online, and comprehensive contaminant monitoring provides critical data.
      - **Proactive Management:** Allows for timely interventions to prevent downtime and cost savings.
      - **Customized Reports:**生成定制报告，提供关键数据。}

**The Benefits**

- **Stream Data Collection and Analysis**:
  - **PlantGard** is designed to collect and analyze stream data comprehensively. This helps in making informed decisions and optimizing performance.
- **Economic Value**:
  - **Cost Efficiency**: Helps in reducing operational costs by minimizing downtime and improving efficiency.
- **Operational Reliability**:
  - **Increased Reliability**: Ensures stable and consistent operations, reducing the risk of equipment failures.

**Coalescing, Filtration, Separation.**

**PlantGard** is a comprehensive solution that streamlines the process of managing contaminant levels in gas streams. With continuous monitoring and analysis, it provides valuable insights to enhance operational efficiency and reduce maintenance costs. It is an essential tool for facilities looking to improve their productivity and reliability.

**Contact Us**

To learn more about how PlantGard can benefit your operations, contact us today. Our team of experts is ready to discuss your specific needs and provide tailored solutions.

**For more information, visit:**

[wsjourney.com](http://wsjourney.com)
In the refining industry, no one solution works for all applications, and no two refiners’ issues will be the same.

It is essential to correctly identify a problem to find the proper solution.

AI PECOFacet, the Contaminant Dictator,dictates the Method of contaminant control.

PECOFacet uses proprietary processes to identify contaminant characteristics and performance objectives. The result is optimum solutions that are flexible enough to provide options as the service dictates.

**HOW PECOFacet SUPPORTS THE PROCESS**

**DEFINE Target and Performance Objectives**

- PECO Facet innovations - filtration and analysis

**COLLECT Sift Data**

- Field engineers
- Scientists
- Online & Pre-market Services

**IDENTIFY**

- Feedback
- Detailed Reports
- Contaminant data, analysis and recommendations

**TEST Transform Technologies**

- Field testing
- Lab testing
- Microcosm testing
- Field evaluations
- Full scale trials

**INSTALL Optimize Solutions and Report Results**

- Feedback
- Detailed Reports
- Contaminant data, analysis and recommendations

**SUSTAIN**

- Contaminants Contaminants

**VCS Series Liquid/Liquid Coalescer for Bulk Liquid Separation Applications**

- Install the HP Series in the liquid feed to catalyst beds and reactors that are sensitive to free water. It will remove water slugs and entrained water droplets saving costs on regeneration and bed replacements.

**KVS Series Liquid/Liquid Separator for Final Dewatering in Storage and Loading Applications**

- For KVS Series Liquid/Liquid Separator is installed in refineries, airports and terminals around the globe. It features a rugged, time-tested design that lasts up to 10 years.

**SP Series Self-Cleaning Filters**

- Removes solids and liquids more efficiently for the oilfield industry by removing contamination of different particle sizes and types. This feature is very useful in oilfields where automatic cleaning is not possible. The filter elements are automatically cleaned up to an automatic and unattended system.

**Surge Filter**

- Surge filters are used in the liquid feed to catalyst beds and reactors that are sensitive to free water. It will remove water slugs and slugs from the feed and protects the downstream process.

**PlantGard®**

- PlantGard® is a self-draining filter separator for large volume, extended duty, and high flow duty applications. It is engineered with a single element configuration. Often it is possible to achieve many times the element service life when compared to conventional and shell and tube designs.

**GoldXtream™**

- GoldXtream™ is engineered with up to eight filter media in a single element configuration. It is possible to achieve many times the element service life when compared to conventional and shell and tube designs.

**VCS Series Liquid/Liquid Coalescer for Bulk Liquid Separation Applications**

- PECO Facet continually developed the Surge filter into a duty cycle tested and performed on many heavy-duty vehicles. It is designed to handle high flow rates with a high degree of efficiency and reliability.

**KVS Series Liquid/Liquid Separator for Final Dewatering in Storage and Loading Applications**

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**HOW PECOFacet SUPPORTS THE PROCESS**

**DEFINE**
- Scope the need
- Understand the system
- Evaluate performance objectives

**COLLECT**
- Survey data
- Gather samples
- Document the situation

**IDENTIFY**
- Predetermine the performance
- Determine the performance
- Evaluate the cost

**TEST**
- Selection criteria
- Prototypes
- Performance testing

**INSTALL**
- Optimize the design
- Optimize the performance
- Optimize the cost

**DIRECTLY MEASURE**
- Statistical process control
- Measurement systems

**Performance Objectives**
- Efficiency and operability
- Reliability and availability
- Safety and compliance

**PECO Facet Specialty Filtration Services**

PECO Facet manufactures a complete line of OEM and standard filtration products. These include pleated, airlayer, and coalescing elements for applications in petroleum refineries, coal plants, and other industries.

**Innovative filtration technologies**

**Surge™ High Flow Liquid Filtration Elements and Vessels for Large Volume, Extended Service and Small Footprint Applications**

PECOFacet's Surge line provides customers with large-volume liquid filtration solutions that are particularly effective in the refining industry. The Surge High Flow Liquid Filtration Elements and Vessels are designed to handle high-volume applications, providing extended service life and small footprint installations.

**Series VHC Self-Cleaning Filters**

Series VHC Self-Cleaning Filters are designed for high-temperature and corrosive applications. These filters feature a unique design that reduces maintenance requirements and provides excellent performance in challenging environments.

**Surge High Flow System for your next fluid management project**

Surge HFS high flow systems offer unparalleled performance for high-volume fluid management. These systems are ideal for large-volume applications and provide extended service life with minimized maintenance requirements.

**Series 75™ High Flow Gas Separators for Compressor Protection and Other Gas Filtration and Separation Applications**

Series 75™ High Flow Gas Separators are specifically designed for compressor protection and other gas filtration and separation applications. These separators are engineered to provide reliable and efficient gas filtration, ensuring the safety and efficiency of critical processes.

**VTC Series Liquid/liquid Separators for Final Dewatering in Storage and Loading Applications**

VTC Series Liquid/liquid Separators are designed for final dewatering applications in storage and loading terminals. These separators are engineered to remove moisture from liquids, ensuring high-quality performance in challenging environments.

**COST EFFECTIVE**

Around the world, PECOFacet strives to be the first choice in providing innovative technology that drives safe, cost effective and sustainable solutions in container management.

**INNOVATIVE**

**QuickStream™ Advanced Osmose Membrane Filtration System for Ultra-Low NOx Applications**

QuickStream™ Advanced Osmose Membrane Filtration System is designed for ultra-low NOx applications in the refining industry. This system utilizes advanced osmose technology to remove contaminants from gas streams, ensuring high-quality performance in critical applications.

**Sustainable filtration for the refining industry**

PECOFacet is committed to sustainability and environmental responsibility, providing advanced filtration solutions that contribute to a cleaner, more sustainable future for the refining industry.
In the refining industry, no one solution works for all applications, and no two refinery issues will be the same.

AL PECOFacet, the Contaminant Dictates the Method of contaminant control.

HOW PECOFacet SUPPORTS THE PROCESS

PECOFacet uses proprietary processes to identify contaminant characteristics and performance objectives. The result is optimum solutions that are flexible enough to provide options as the service dictates.

DEFINE \nScope & \nProduct Performance \nObjectives

Filtration Evaluation \nConsultation \nLoad & Pack

Innovative \nAnalytical Services \nMineral Like \nWater & \nSludge Collection

Identify \nSampling & \nAnalysis

Test \nTechnology

Product \nTrials

Product Offering \nSolids \nMass \nAnalysis \nField Tests

Stream Data \nProcess \nCleaning \nMinerals \nIntelligence \nObservations & \nRecommendations

Install \nOptimised Systems \nStreamline \nCleanliness \nMeters \nInformation \nTechnology

DIRECTLY IMPACT \nStream Cleanliness \nMeters \nInstallation \n& \nSupport Results

Around the world, PECOFacet strives to be the first choice in providing innovative technology that drives safe, cost effective and sustainable solutions in contaminant management.

INNOVATIVE

QuickStream™ Student Optimum Filter Cartridge and INOX Series Stainless Steel Cartridge Bed Filter Applications

Reverse and final steam applications in refinery refinery oil services often contain large amounts of highly retained particulate contaminants. PECOFacet’s INOX filter cartridges are engineered to provide definite breakthrough points while providing reliable operation. These single cartridge, exhaustable filter cartridges are a broad range of contaminants. QuickStream™ self-changes gas regenerants, migration sheets, and high rainfall conditions. This means that, even when there is a process change, the system remains reliable. This is a single-element configuration. If possible, it is preferential to avoid any element leaks before component to component and make pilot sizes.

VCS Series Liquid/Liquid Coalescer Applications

The VCS Series Liquid/Liquid Coalescer is installed in refineries, for Final Dewatting in Storage and Loading Applications. VCS Series Liquid/Liquid Coalescer application levels. This makes a high flow system particularly effective. The Surge High Flow System is particularly effective.

Surge High Flow System Applications

Surge High Flow System (HFS) Elements and Vessels for Large Volume, Extended Stroke and/or Multiple Applications

PECOFacet specially developed the Surge high flow element into a duty performance pack that will perform well. Surge High Flow rapidly per and in 300 gpm. The Surge High Flow system particularly effective at removing slugs and entrained water droplets saving costs on large volumes.

Surge Filter

SPP Self-Cleaning Filters

SP Self-Cleaning Filters have proven themselves in the offloading industry by cleaning and retaining the duties of different applications. Surge Filter is a self-cleaning filter that automicts the filter elements are periodically cleaned up by an automatic and unattended process.

Surge High Flow System Applications

PECOFacet’s performance criteria is primarily for QuickStream and repeated cleaning for applications requiring no or a wide range of filtration solutions.

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HOW PECOFacet SUPPORTS THE PROCESS

DEFINITE

Streamline Evaluation & Consultation

- In-Plant Flows
- System Scoping
- Design Review & Qualification

INNOVATIVE

Innovative Solutions

- PERFORMANCE Objectives
- Performance Objectives
- Collect & Inhouse Analysing Services
- Field Lab & Testing
- Report & Procedure
- Product Testing
- Fluidic Fluids
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C O S T  E F F E C T I V E

Cost Effective

- Protection and Other Gas Filtration and Separation Applications
- Series 175 Gas Filter Separator for Large Volume, Extended Service and Small Footprint Applications
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In the refining industry, no one solution works for all applications, and no two refining issues will be the same.

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mitigate risks and avoid unplanned downtime
reduce product, water and solvent losses
improve overall process reliability
provide performance verification for filtration,
PlantGard
continuous measurement and surveillance of gas stream cleanliness, data logging, equipment solutions through on-site performance verification. SPS is your solutions that meet your operating goals. Third, we validate effectiveness of bulk liquids and solids. This provides a complete 360-degree picture for measurement a full spectrum of contaminants; from sub-micron species through the rigorous demands of the refining and oil & gas process.

Our Thorough Process — An Integrated Approach
presents many processing configurations, from a single combination of proprietary methods and equipment, SPS offers fast, direct and accurate evaluation of performance. Solutions are driven through full equations. The process provides complete NDE engine for the characterization of contaminants, maintaining the process, producing reliable, cost-effective results.

The Benefits
improved equipment performance in process equipment — reduced telephone call maintenance and repair
predict and avoid contamination related issues and equipment damage
ConnectionString and controlling equipment
infrared maintenance inventory equipment
“monitoring a level of the system” — Optimize the process with a NDE engine
Reduce product waste and adventitious losses
Company-wide maintenance expertise
Engineer equipment performance

PlantGard
Gas Stream Contaminant Management System
PlantGard is a revolutionary contaminant management tool that finds hidden costs, maintains steadfastness to users by defining gas stream cleanliness.

The Benefits
increase the reliability of gas feed
improve catalyst bed life cycle
“letting the contaminant dictate the method”
minimize maintenance time and costs, while maintaining the process.


The contaminant dictates the method

PECOFacet Headquarters
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www.pecofacet.com

Locations
Al minors, The Netherlands
Cafasse (Torino), Italy
Calgary, Canada
Houston, Texas
Kuala Lumpur, Malaysia
Manama, Bahrain
Perth, Australia
Queretaro, Mexico
Sacramento, California
Tulsa, Oklahoma
Vernal, Utah

Using low NDLs and NDE to monitor gas system, high contaminant levels cause a broad range of problems that can be avoided with the installation of PlantGard system.

The Benefits
improve the reliability of gas feed
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Tulsa, Oklahoma
Vernal, Utah

Using low NDLs and NDE to monitor gas system, high contaminant levels cause a broad range of problems that can be avoided with the installation of PlantGard system.

The Benefits
improve the reliability of gas feed
improve catalyst bed life cycle
“letting the contaminant dictate the method”
minimize maintenance time and costs, while maintaining the process.
PlantGard®

Gas Stream Contaminant Management System

PlantGard is a state-of-the-art contaminant management tool that further enhances, maintains integrity to users by defining gas stream cleanliness.

**The Benefits**
- Mitigates the severity of gas, liquid, and solid particles.
- Prevents and manages contaminant-related equipment problems.
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**Features**
- Continuous online analysis of gas character.
- Separation of particles and fluids.
- Materialized material characterization and data logging.

**Stream Data**
- Continuous on-line surveillance.
- Features
  - Stream Data Collection
  - Stream Data Collection
  - Data Logging
  - Data Logging
  - Remote Alarm Notification
  - Remote Alarm Notification

**Continuous metering and surveillance of gas stream cleanliness, data logging, report generation and remote alarm notification via web, DCS, or mobile telephone — 24/7**

SPS is your source for innovative technologies and services aimed at keeping you ahead of the curve through on-site performance verification. SPS is your solutions provider that meets your operating goals. Third, we validate effectiveness of technologies and solutions that meet your operating goals.

**PlantGard**

PlantGard is a leading-edge contaminant management system that refiners work with a contaminant management team that offers leading-edge solutions for today’s pressing contaminant management issues.

**SPS Field Engineers**

SPS field engineers consult with you to mitigate risks and avoid unplanned downtime, improve overall process reliability, avoid contaminants-related equipment, validate feeds and fuel quality to critical, troubleshoot and resolve costly contaminants, provide performance verification for filtration, separation and coalescing equipment, continuous measurement and surveillance of gas stream cleanliness, data logging, report generation and remote alarm notification via web, DCS, or mobile telephone — 24/7.

**Continuous performance and innovation**

**CONTAMINANT MANAGEMENT SOLUTIONS FOR**

**PETROLEUM REFINING**

**A NEW ERA IN CONTAMINANT MANAGEMENT**

**What sets us apart?**

- We function on both sides of the development and field implementation continuum: proprietary methods and equipment, advanced and proven technologies, and field services.
- We offer a broad range of solutions from contaminants to pure liquids and solids, from subatomic particles through bulk liquids and solids. We provide complete end-to-end packages for efficient, cost-effective, low-maintenance solutions that are environmentally friendly.
- Our Thorough Process – An Integrated Approach

**Our Thorough Process – An Integrated Approach**

Identifying and solving the problem(s) is the first step in our process. We then identify a combination of proprietary methods and equipment, and offer full field development, equipment fabrication and deployment, training, and ongoing support.

**The Benefits**

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