

Get peak performance from your ESPs

Electrostatic precipitator services and client contract programs





No-one
understands
precipitators
like we do!

Whatever the environmental challenge ...

LET US TAKE CARE OF THE DIRTY WORK!

Electrostatic precipitators (ESPs) are expected to run at ever-lower emission limits. That means there is no margin for error in maintenance and operations. With our comprehensive knowledge and expertise in ESP power supplies, controls and hardware, we make ESP processes work to optimum effect – whatever the challenge.

WE PROVIDE EACH USER WITH THE BEST ADDED VALUE FOR:

Client contract program



Fitness check



ESP process optimization



ESP maintenance



ENVIRONMENTAL COMPLIANCE

Optimizing collection performance under all process conditions to provide unparalleled results for customers in today's changing environment.

MAINTENANCE

Fitness checks with prioritized recommendations and flexible options to ensure high-quality repairs (supervision, turnkey, maintenance contract)

OPERATION

Minimizing the operating cost, extending equipment life, advanced automation and control

MONITORING

Logging and evaluation of process & control operating data

REPORTING

Consolidated information for operations, technicians and compliance

Seven steps to ESP optimization

FITNESS CHECK INSPECTIONS

Internal, external and process condition assessments

- STEP 1** Questionnaire
- STEP 2** Preliminary analysis
- STEP 3** Fitness check inspection
- STEP 4** Maintenance and flow modifications
- STEP 5** Power supply optimization
- STEP 6** Rapper system optimization
- STEP 7** Ash system optimization

Power supplies and controls

Our fitness check program includes diagnostics and life expectancy evaluations to give you peace of mind with regard to your ESP power supplies. If performance is an issue, our experts will evaluate and determine the best approach for increasing the collection capabilities of the existing footprint and power supplies, recommending upgrades, sectionalization or SMPS vs. conventional power supplies.

- » AVCs
- » Rapper controls
- » Communication system
- » TR set DGA
- » SMPS
- » Ash system controls
- » Purge air
- » Hopper heaters
- » Power distribution analysis

ESP process/hardware

Dirty and clean ESP inspections reveal the problem areas both within and outside the ESP process. Our fitness check experts and maintenance crews have the process knowledge to get your ESP back to its original performance standards. We hold replacement parts in stock to reduce stress levels and lead times should problems be discovered during brief outage work.

- » Dirty inspection
- » Clean inspection
- » Hot inspection
- » Flow modeling
- » Rapping hardware
- » Hopper and casting inspections
- » Insulator compartments
- » Ash analysis



Repairs, replacements and upgrades for:

- » Rapper system repair
- » TR set repair
- » Control repair/replace/upgrades
- » Discharge system
- » Collection system
- » Flue gas distribution
- » Hopper casting
- » Ash system valve and piping

Quality repairs

ESP MAINTENANCE

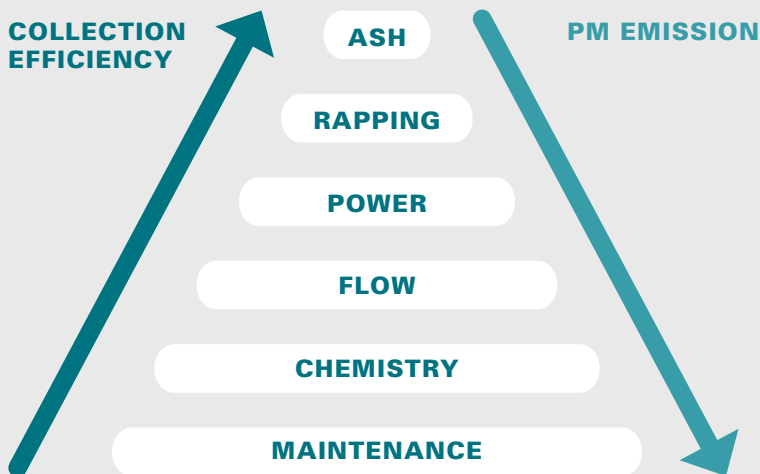
Whether it's a short outage or a long one, our maintenance crews can completely restore your ESP to its original condition from the inside out. Solutions are tailored to meet each customer's needs in terms of budget, time, performance and other factors. Our consultants help make sure the repair work is effective and executed to a high quality, so you don't have to deal with the same problem again during any subsequent outage.

ESP PROCESS OPTIMIZATION

An ESP's performance varies significantly depending on the chemistry, temperature and other parameters of the incoming gas stream and particulates. To understand how well it is performing and how much dust it is collecting requires a detailed review, evaluation and optimization. Drawing on our experience and expertise, we bring your ESP back to its original design condition or further enhance performance for today's more challenging environment.

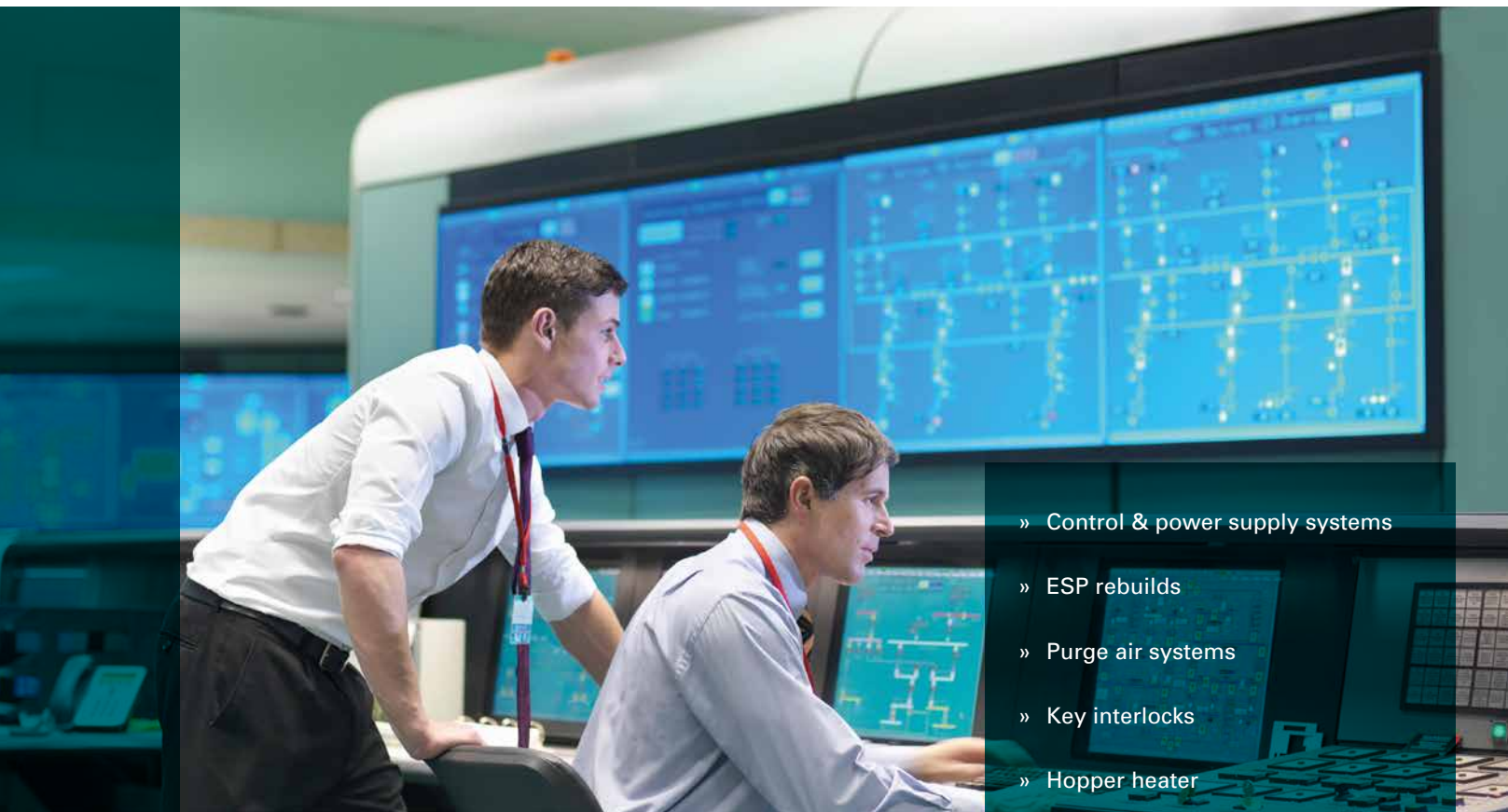
- » Power optimization
- » Rapper system tuning
- » Ash system optimization
- » Physical cold flow modeling
- » Computerized fluid dynamics
- » Power supply sectionalization
- » Rapper sectionalization
- » Electrode selection
- » ACI/DSI/FGC optimization

Experience and vast expertise



OPTIMIZING THE COMPLETE ESP PROCESS TO ACHIEVE THE BEST ADDED VALUE FOR

-  Environmental compliance
-  Maintenance
-  Operation
-  Monitoring
-  Reporting



- » Control & power supply systems
- » ESP rebuilds
- » Purge air systems
- » Key interlocks
- » Hopper heater
- » Power distribution systems
- » Installation services
- » Maintenance contracts
- » Blanket parts agreements
- » Frame contracts

Maximum performance, minimum costs

CLIENT CONTRACT PROGRAMS

Schenck Process offers custom agreements and programs to optimize the total cost and performance of your ESP systems and processes. By engaging a single-source provider, you control costs and limit risks. We will demonstrate to you the total cost savings and benefits of enhanced reliability through correct operation and maintenance.

Making ESP processes work

The Schenck Process Group has a network of local consultants and contractors who will carry out fitness checks and maintenance to the Group's uncompromising standards.

24/7 EMERGENCY RESPONSE FOR PARTS AND SERVICE CALL

800-289-7326

Schenck Process
16490 Chillicothe Road
Chagrin Falls, OH 44023 USA
T +1 (440) 543-6000
F +1 (440) 543-5944
sales-CMM@schenckprocess.com
www.schenckprocess.com/us

schcnck process 

we make processes work