

WHICH POWEREYE SERVICE LEVEL IS RIGHT FOR YOU?

PowerEye™ from Camfil Power Systems is an advanced predictive analytics service that helps power plant operators understand the impact that environmental conditions, changing weather patterns and filter status have on the health and performance of gas turbines. This intelligence is backed by a dedicated team of Camfil filtration specialists to help you drive higher power output and reduce operational expenses.

You can access PowerEye through an annual subscription with three levels of service to choose from – **Lite**, **Pro** and **Max**. Each service level is designed to provide the best option to improve your specific operation.

1

POWEREYE LITE BE ALERT TO INCREASE AVAILABILITY

PowerEye Lite monitors real-time environmental conditions and status of filters for any type of gas turbine. Local conditions are measured by the PowerEye Air Monitoring Station – a proprietary telemetry device that is mounted near the intake of each turbine.



Maintenance teams receive reports showing historical pressure drop trends as well as risk level indicators. This data enables them to take action as needed and avoid lost revenue from unplanned outages.

- NO RISK
- SOME RISK OF REACHING RISK THRESHOLD – CONSIDER REPLACING FILTERS SOON
- FILTERS WILL REACH RISK THRESHOLD AND SHOULD BE REPLACED

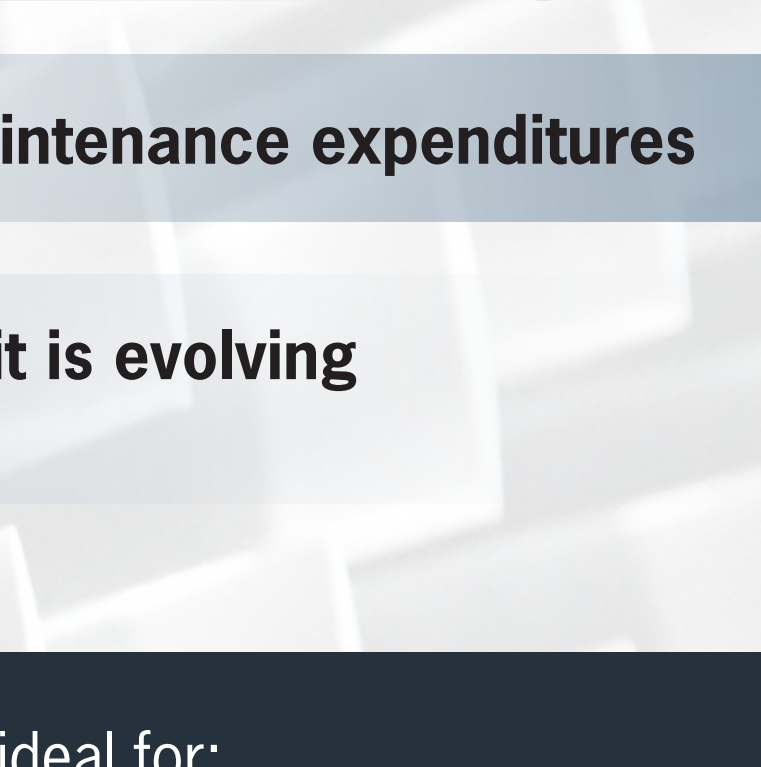
PowerEye Air Monitoring Station – This telemetry device measures temperature, relative humidity and ambient dust concentration.



PowerEye Lite Provides

- ✓ Monitoring of ambient conditions such as temperature, humidity and particulate levels.
- ✓ Short-term risk of derating
- ✓ Filter pressure drop monitoring
- ✓ Periodic email reports and alerts

PowerEye Lite Helps You To:

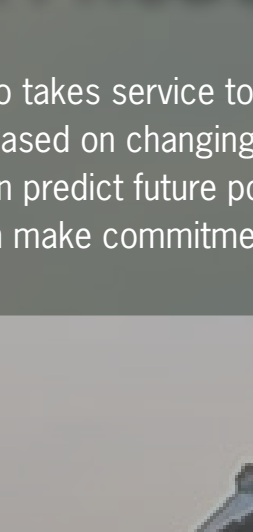


Prevent turbine de-rate or trip events

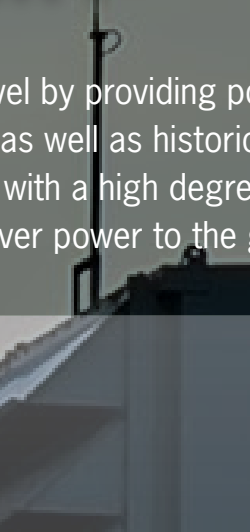
Avoid short-term unexpected maintenance expenditures

Understand your environment, how it is evolving and how it affects your filters

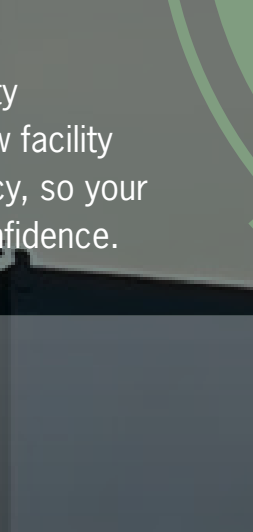
PowerEye Lite is ideal for:



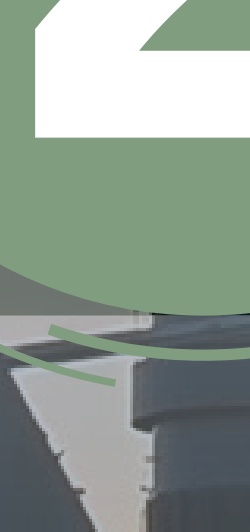
Independent power producers



Peakers and intermediate power plants



Operations managers



Maintenance managers

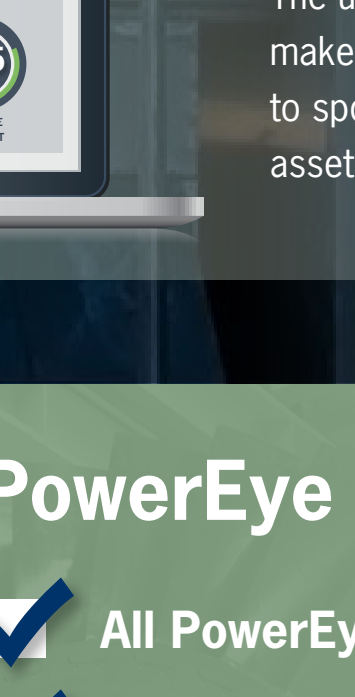
POWEREYE PRO TAKE CONTROL OF YOUR PRODUCTIVITY

PowerEye Pro takes service to the next level by providing power capacity forecasting based on changing conditions as well as historical data. Now facility operators can predict future power output with a high degree of accuracy, so your company can make commitments and deliver power to the grid with confidence.

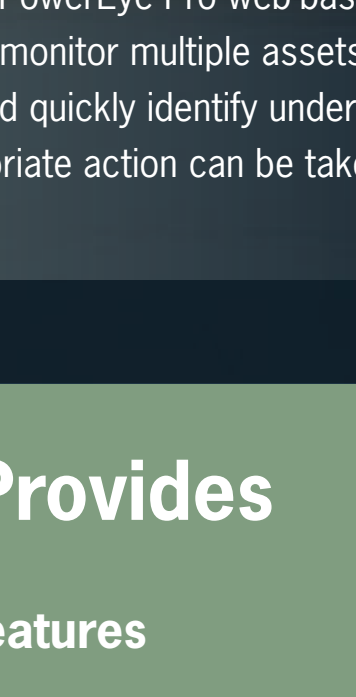
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HEAT RATE DEGRADATION

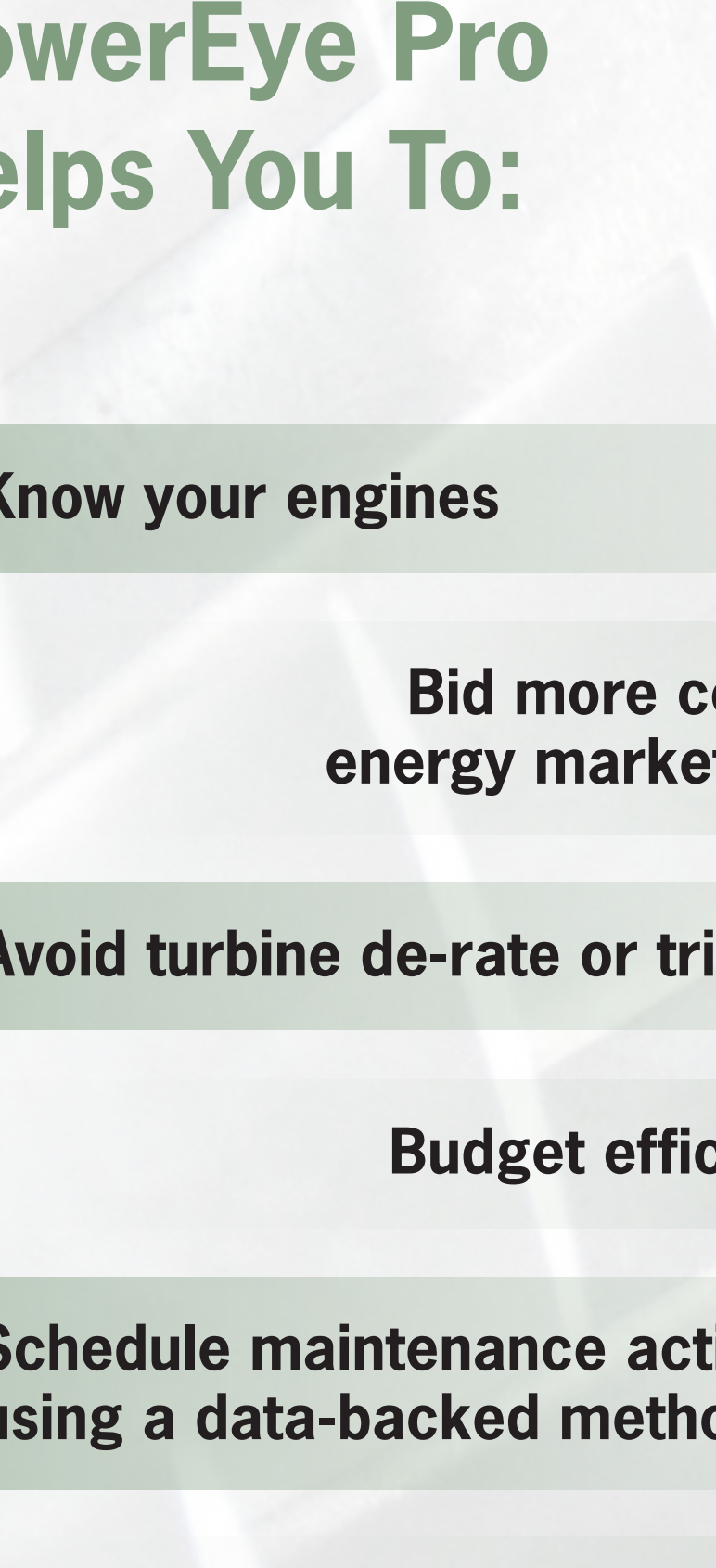


COMPRESSOR EFFICIENCY



ENGINE OUTPUT

PowerEye Pro delivers up-to-the-hour insights on how temperature, humidity and particulate levels in the air will affect the performance of your engines. It also considers the state of degradation of your engines and inlet filters and monitors trends to provide the most up-to-date snapshot of engine status. Together, this data provides you with optimization insights for replacing filters at the lowest operating expenditure, as well as accurate capacity forecasting.



The user-friendly PowerEye Pro web-based dashboard makes it easy to monitor multiple assets across fleets to spot trends and quickly identify underperforming assets so appropriate action can be taken.

PowerEye Pro Provides

- ✓ All PowerEye Lite features
- ✓ Capacity forecast for the next 48 hours
- ✓ Real-time monitoring of ambient temperature, humidity and particulate levels
- ✓ Real-time filter and engine performance and degradation monitoring
- ✓ Pressure drop prediction trend up to one year into the future
- ✓ Optimal time to change filters
- ✓ Live dashboard available 24x7

PowerEye Pro Helps You To:



Know your engines

Bid more confidently and accurately on the energy market to potentially increase revenue

Avoid turbine de-rate or trip events

Budget efficiently and lower operating costs

Schedule maintenance activities effectively using a data-backed methodology

Understand the impact of environmental conditions on your assets

Ensure optimal protection of your assets through constant monitoring and action

Optimize filter selection

PowerEye Pro is ideal for:



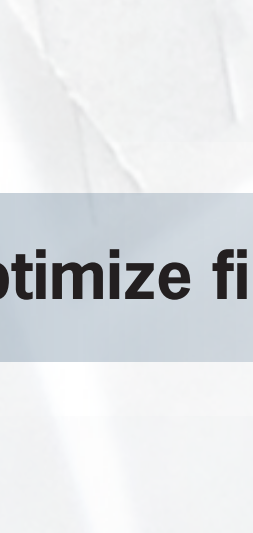
Large power producers with multiple engines



Power producers that compete on the commercial energy market



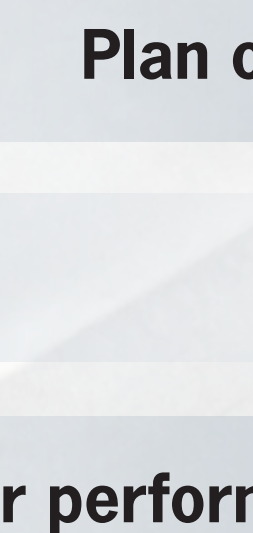
Baseload cogeneration plants



Plant managers



Fleet manager



Rotating equipment engineer



Commercial managers

3

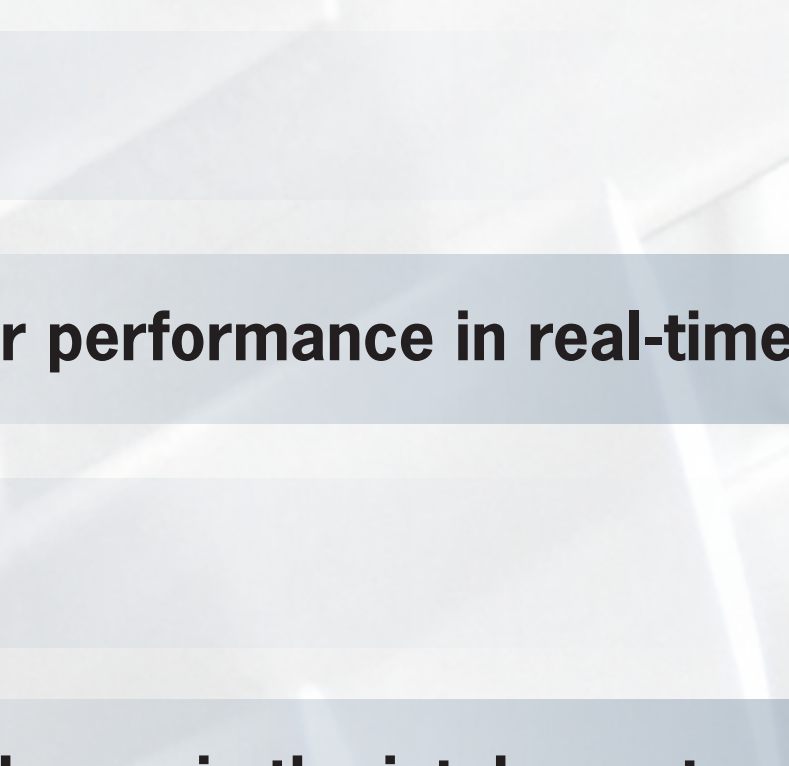
POWEREYE MAX WORRY-FREE OPERATIONS

PowerEye Max includes all the benefits of PowerEye Pro plus additional features that include filter efficiency validation and offline compressor water wash optimization. Together, these features provide peace of mind that your filters and turbines are operating at the highest efficiency. And when performance starts to decline, you will be able to take early action to avoid turbine tripping or de-rating.

PowerEye Max Provides

- ✓ All PowerEye Pro features
- ✓ Optimal time to water wash
- ✓ Downstream particle counter to measure filter efficiency in real-time
- ✓ Validate filter performance in real-time

PowerEye Max Helps You To:



Lower operating cost

Plan outages effectively

Optimize filter selection

Validate filter performance in real-time

Optimize water wash frequency

Ensure there are no leakages in the intake system

PowerEye Max is ideal for:



Critical applications that have high availability requirements



Large power producers with multiple engines



Power producers that compete on the commercial energy market



Plant managers



Fleet engineers



Commercial managers



Reliability engineers

To learn more about how the revolutionary PowerEye predictive analytics service can help you maximize the performance of your engines and make more profit, visit www.Camfil.com/PowerEye