

## Sustaining Energy Efficiency Benefits

Maintain and even increase the value of your investment over time



To truly improve business performance, industry leaders know that whatever energy efficient solution they choose that it must sustain and increase benefits throughout its lifecycle. It has been estimated that up to 5% of the energy savings attained during an energy project can be lost per year going forward if there is no focused effort to sustain these benefits. Honeywell is a trusted service provider to processes industries, offering the required expertise to improve safety, reliability and efficiency. As technology evolves and grows increasingly complex, Honeywell brings the intelligence together into a real-time, integrated system to help manage entire operations while maximizing the return on equipment investment with continuous lifecycle support.

### Integrated Monitoring and Decision-making Suite

Honeywell Process Solutions is the only automation services provider that continues to support products developed and installed as much as 30 years ago—third-party systems as well as previous Honeywell products. Honeywell's unique combination of Experion technology and continuous lifecycle support lets customers decide how much longer they want to maintain an existing system and what new components they want to invest in.

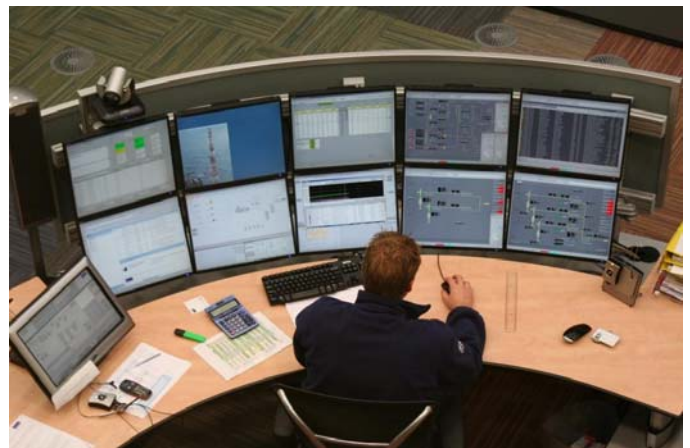
Honeywell can help with proactive component monitoring and maintenance services that boost performance, extend component lifecycles, and lower overall cost of ownership. Installations supported by Honeywell typically experience maintenance cost reductions as much as 30. Some of the offerings that are worth noting include:

- **Technology Refresh with Lifecycle Management**
- **Performance Management Services with BGMax**
- **Remote Performance Monitoring.**

### Technology Refresh with Lifecycle Management

Lifecycle Management (LCM) is a multi-year service agreement that guarantees asset support for Honeywell hardware and software products in your plant until they are modernized or retired. The goal of an LCM agreement is to establish a committed automation roadmap leading to either electronic refresh or a complete migration during the term of the contract. With LCM, you can start down the path to modernization today and get there incrementally as your plant needs and schedule dictates. Some examples include, migrating existing graphics to

ASM compliant views that enable operators to respond faster to upsets; intelligent alarm systems that prevent flooding and provide views that combine alarm events with process history; incorporating automated procedures into the control system to ensure consistent and timely execution of infrequently executed operations. Lifecycle management is the most cost effective method of ensuring that assets are supported, kept technologically up-to-date and protected from obsolescence.

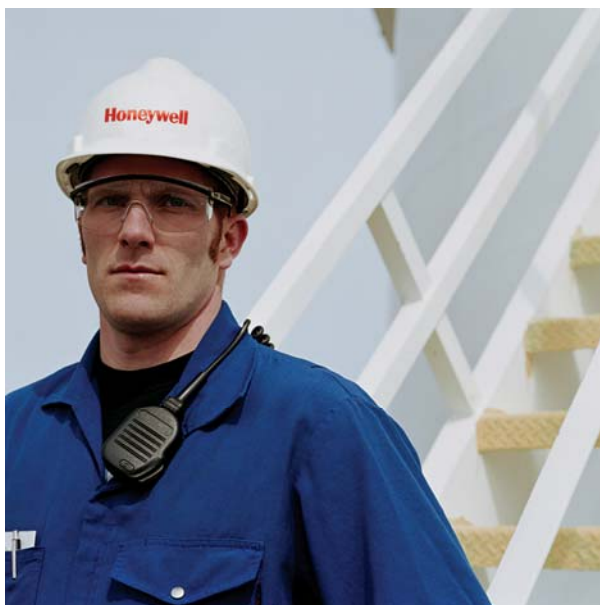


### Performance Management Services with BGMax

Benefits Guardianship Maximum (BGMax) is a flexible and comprehensive service for advanced control and optimization applications designed to maximize ROI of technology investments. BG Max services fall into the following areas:

- Attainment services establish the baseline for measuring current performance of existing APC applications.

- Revive services restore the performance of existing applications to original levels.
- Reactive services offer quick response to identify and address control problems
- Proactive services enable preemptive maintenance activities to occur that address emerging APC problems before they impact process performance.
- Opportunity Assessment services evaluate and identify additional prospects for increasing APC performance that may have been outside the original scope.
- A hierarchy of views is provided by the Energy Dashboard that allows the user to drill down to multiple levels and identify possible actions.
- Continuous high-fidelity monitoring of process condition
- Routine process and equipment model tuning
- Early identification of economic opportunities
- Model based scenario analysis (What if)
- Planning function support (automated LP vector generation)
- Kinetic and constraint based optimization of process conditions
- Sustainability of the platform infrastructure



BG Max services are designed to monitor and sustain benefits through a field proven combination of Profit Expert analysis and guidance by Honeywell engineers. Profit Expert provides a wide array of technical analysis while the Honeywell experts add proper context and actionable steps to drive improved performance.

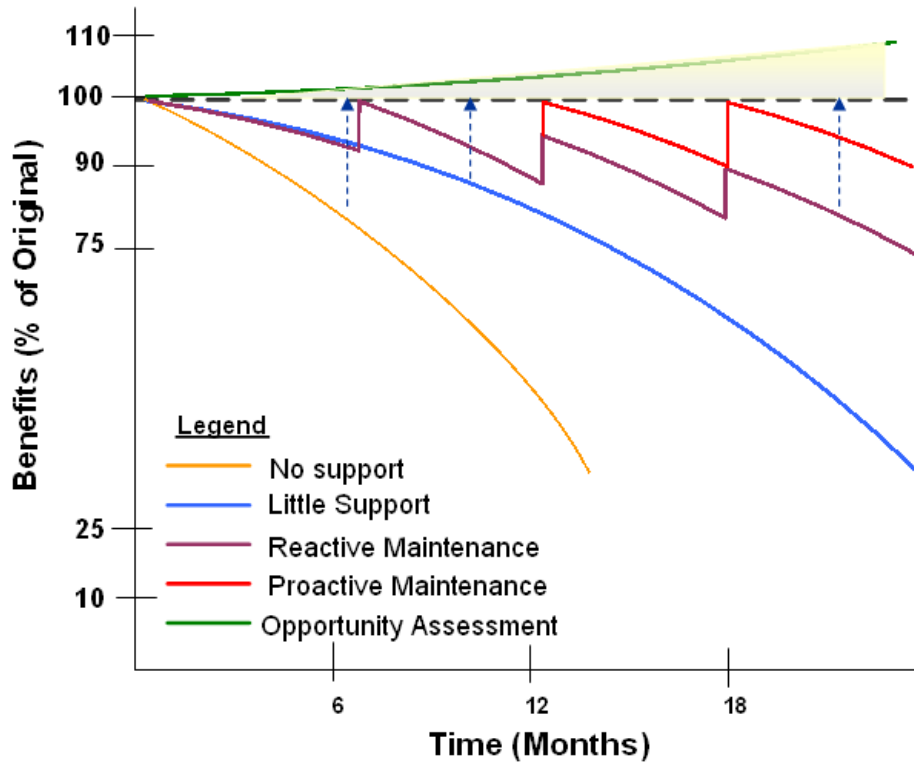
### Remote Performance Monitoring

To further deliver solution value, Honeywell combines UOP technology with Experion PKS to improve plant performance. Remote Performance Management (RPM) is a solution that aids in monitoring, optimizing and sustaining the performance of a variety of process units. RPM provides:

The solution provides timely access to information and recommendations, allowing producers to make better economic decisions on how they operate their assets. The RPM Solution brings UOP engineering and process modeling resources to bear on specific process assets.

Process data is remotely accessed, encrypted, and securely transmitted to our calculation servers. The data is then validated and reconciled before being processed using customized models hosted and maintained by HPS and UOP. The results of the analyses and processing are then stored in a secure database and made available to customers engineering staff via ultra-secure Internet browsing tools.

Honeywell's process and control knowledge allows for a deeper analysis of the facility and the development of more comprehensive, practical solutions. Honeywell's software and services also help sustain and improve the energy savings after the project implementation phase is complete. The total benefit from these differences can amount to millions of dollars in savings. For a mid-sized refinery or chemical plant, the additional value over a 10 year period is estimated to add \$ 0.75-1.5M/year to the bottom line.



By utilizing Honeywell's programs for energy efficiency benefits sustainment, the value of your investment can actually increase over time instead of degrading

### More Information

For more information on any of Honeywell's Products, visit our website [www.honeywell.com/ps](http://www.honeywell.com/ps), or contact your Honeywell account manager.

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