

How to Tackle the Business Cost of Operating

Reduce operating costs by increasing energy efficiency in 2023



Ask the Expert

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How to Tackle the Business Cost of Operating

Reducing business energy consumption and optimizing efficiency and energy usage in 2023

High energy prices and concerns about energy security are having significant impacts on businesses. Investing in energy efficiency technology means businesses can simultaneously cut costs and reduce their emissions.

With the right approach, it is possible for industry to achieve cost savings without sacrificing competitiveness, investment in their business and workforce, or their journey to decarbonization.

This guide gives five simple steps to insulating your business from energy cost and security challenges:

- [Know where you stand: conduct an energy audit](#)
- [Plan your journey: partner with experts to meet your goals](#)
- [Understand the business case: secure stakeholder buy in](#)
- [Galvanize the workforce: Energy efficiency is everyone's responsibility](#)
- [Work through an ecosystem: Move forward more effectively](#)

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01

Know Where You Stand
Conduct an energy audit

To save energy, you must first understand how and where you consume it.




Establishing a baseline of how energy is consumed within your business lays a foundation for making improvements.

An Energy Audit will highlight where your business is wasting energy and pinpoint areas of opportunity.

This discovery phase will allow you to invest time and money into the areas that will make the biggest impact on your energy consumption.

- The ABB Ability™ Energy and Asset Manager is a cloud solution that offers real time monitoring of electrical costs.
- ABB Ability™ Energy Manager facilitates implementation of ISO 50001 standards towards establishing an energy baseline and building an energy performance strategy thereupon
- Viettel reduced energy costs at its telecoms HQ by 20% using the ABB Ability™ Energy and Asset Manager.





02

Plan Your Journey

Partner with experts
to meet your goals

Plan the journey your company will take towards energy efficiency. Identify the quick energy wins and plot a long-term shift towards clean sustainable energy.



Lowering energy consumption and securing a reliable power supply, is a long-term commitment that requires a strategy.

A well-planned, financial, and operational roadmap for how you will produce and manage energy going forwards is critical.

This may include new-to-the-business capabilities like on-site power generation, battery energy storage (BESS) or microgrids.

Collaborating with a technology partner will provide expertise you may not have in-house, plus an extensive portfolio of the latest smart systems that can be carefully matched to your needs as you move through your sustainability journey.





New technologies are innovated all the time, and a consultative partner can ensure you understand your options at every step. To prove the efficacy of our solutions portfolio to customers, we specify our own systems in ABB factories around the world. In Frosinone, Italy for example, we retrofitted hardware solutions and cloud-based energy management technologies from our own portfolio of products to achieve savings of up to 30 percent.

- ABB Frosinone was the first factory in Italy to use retrofit hardware solution and cloud-based energy management to achieve savings of up to 30% (link: [ABB Frosinone](#)).
- Croatian jam and spread producer, Hermes International incorporated ABB Ability™ Energy and Asset Manager and Ekip UP+ to provide continuous visibility into equipment condition, storage temperatures, and energy and water consumption. Real-time monitoring optimized production, which helped Hermes eliminate three tons of CO² emissions per year thanks to power peak shaving totaling 25-30%.
- Leading cured meat producer Rapelli, used advanced UPS solution to increases power availability to 99.9999%, reducing costly downtime, achieving 96% efficiency and cutting energy costs.

03

Understand the Business Case

Secure stakeholder buy in

Energy efficiency improvements have extremely attractive returns on investment and payback periods that get shorter as energy prices rise.



Using your energy audit results and long-term plan, it's time to secure stakeholder buy in. To do this you need to understand the economic value of the changes you want to make.

Mature, low-risk solutions like smart building applications and cloud-based energy management, can deliver rapid ROI for organizations facing energy cost pressures.

- The ABB Energy Manager ROI calculator forecasts reductions of up to 30 percent on energy savings and 40 percent on maintenance costs.
- The calculator is free to use, with immediate calculation results on investment payback
- It demonstrates the potential savings that can be achieved using the ABB Ability™ Energy and Asset Manager.



04

Galvanize the Workforce

Energy efficiency is
everyone's responsibility

When it comes to energy usage, everyone in your business is a decision maker. Empower your workforce and create a groundswell of action.



Energy efficiency is everyone's responsibility. Drive significant change by empowering your workforce with the knowledge they need to lower energy usage at every level of your business.

Make sustainability part of your business culture to bolster the larger-scale infrastructure investments you make as part of your long-term plan.

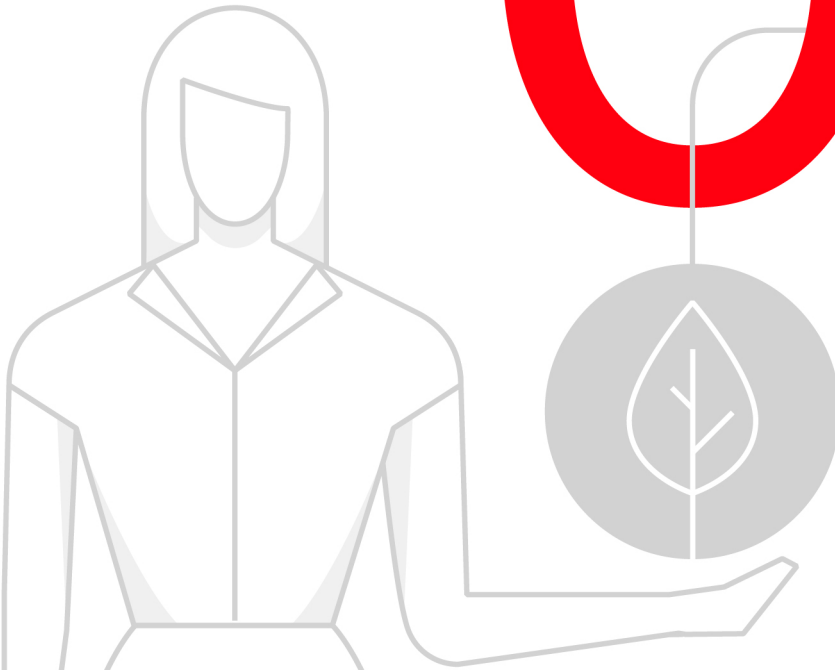
Smart building solutions using data insights from sensors can control operations such as lighting and shutters, to heating, ventilation, security, and energy management in commercial buildings.

They deliver energy savings up to 30 percent compared to conventional non-automated systems.

Shanghai Bank made 15% energy savings with intelligent & integrated building controls.



05



Work Through an Ecosystem
Move forward more effectively

Every business consuming energy is part of a wider industry ecosystem that is responsible for bringing about the global energy transition.



Work in collaboration with business partners including suppliers, regulators, employees, and the communities in which your company operates.

This will provide learning opportunities for your organization and allow you to build a stakeholder coalition for change, from which your business and your industry can move forward more effectively.

ABB's ecosystem includes customers, partners, and broader industry collaborations. We partner with tech giants like Hewlett Packard and Samsung as well as small start-ups like Pratexo, and energy service companies to share best practice and innovate technologies that will reduce our long-term impact on the planet.



Insulate your business from rising energy costs without compromising growth

Businesses say they need to insulate themselves from energy prices and insecurities and are re-evaluating current and future spending plans as a result – but you don't have to make a trade-off.

With the right approach, it is possible to achieve cost savings without sacrificing competitiveness, workforces or the journey to decarbonization.

For support achieving the steps in this Ask the Expert guide, speak to your regional ABB team.



