

# Maximizing Efficiency, Reliability, Safety and beyond

The Ultimate Guide to Annual  
Maintenance Shutdowns

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# Table of contents



# The Unseen Hero of Operational Success

Imagine a scenario where a single, well-planned break can bring forth a surge in efficiency, sustainability, and safety.

This isn't a fantasy but a compelling reality in the world of maintenance shutdowns, annual or otherwise.

Far from being an inconvenience, these shutdowns are critical opportunities to ensure that systems run smoothly and safely all year round. In an age where critical business outcomes are paramount – safety, reliability, resilience, efficiency and sustainability, understanding and effectively implementing annual maintenance shutdowns can be a game-changer.



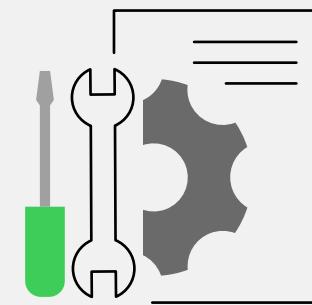
# What Exactly is an Annual Maintenance Shutdown?

Annual maintenance shutdowns are designated periods where operations temporarily halt to perform necessary upkeep tasks.

**These encompass a variety of maintenance types:**

**01**

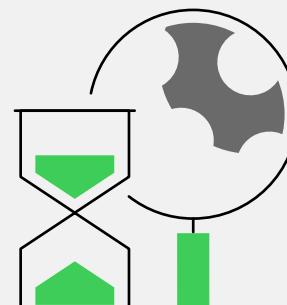
Simple or Basic Maintenance



Involves routine tasks such as inspections, cleaning, testing, and lubrication, which can only be executed during a power shutdown.

**02**

Corrective or Repair Maintenance



Focuses on fixing known deficiencies or issues identified during previous maintenance sessions but left unaddressed due to time constraints.

**03**

Interval or Calendar-Based Maintenance



Entails preventive measures taken at regular intervals, based on assumed operational conditions and the expected lifecycle of components.

As businesses become more connected and digital, the need to rethink maintenance strategies intensifies due to increased business continuity risks and higher downtime costs. The power of Condition-based maintenance (CBM) extends the amount of time between maintenance shutdowns.

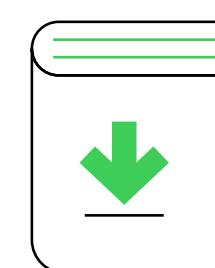
# Maintenance optimization with a Condition-Based approach

Condition-based maintenance is similar to predetermined maintenance, except that the interval between maintenance is determined based on operating parameters. Compared with corrective/reactive (break-fix) methods, preventive maintenance savings can reach 12-18%.

This is because unplanned downtime and maintenance make inroads into productivity and profitability. For example, maintenance and downtime account for 25-30% of the total lifecycle cost of a pump.\*

Migrating to condition-based and predictive maintenance might require the installation of dedicated sensors that provide real-time and trended data for key characteristics within electrical distribution equipment.

\* Frost & Sullivan, “[Data-driven Asset Performance Management White Paper](#),” 2020

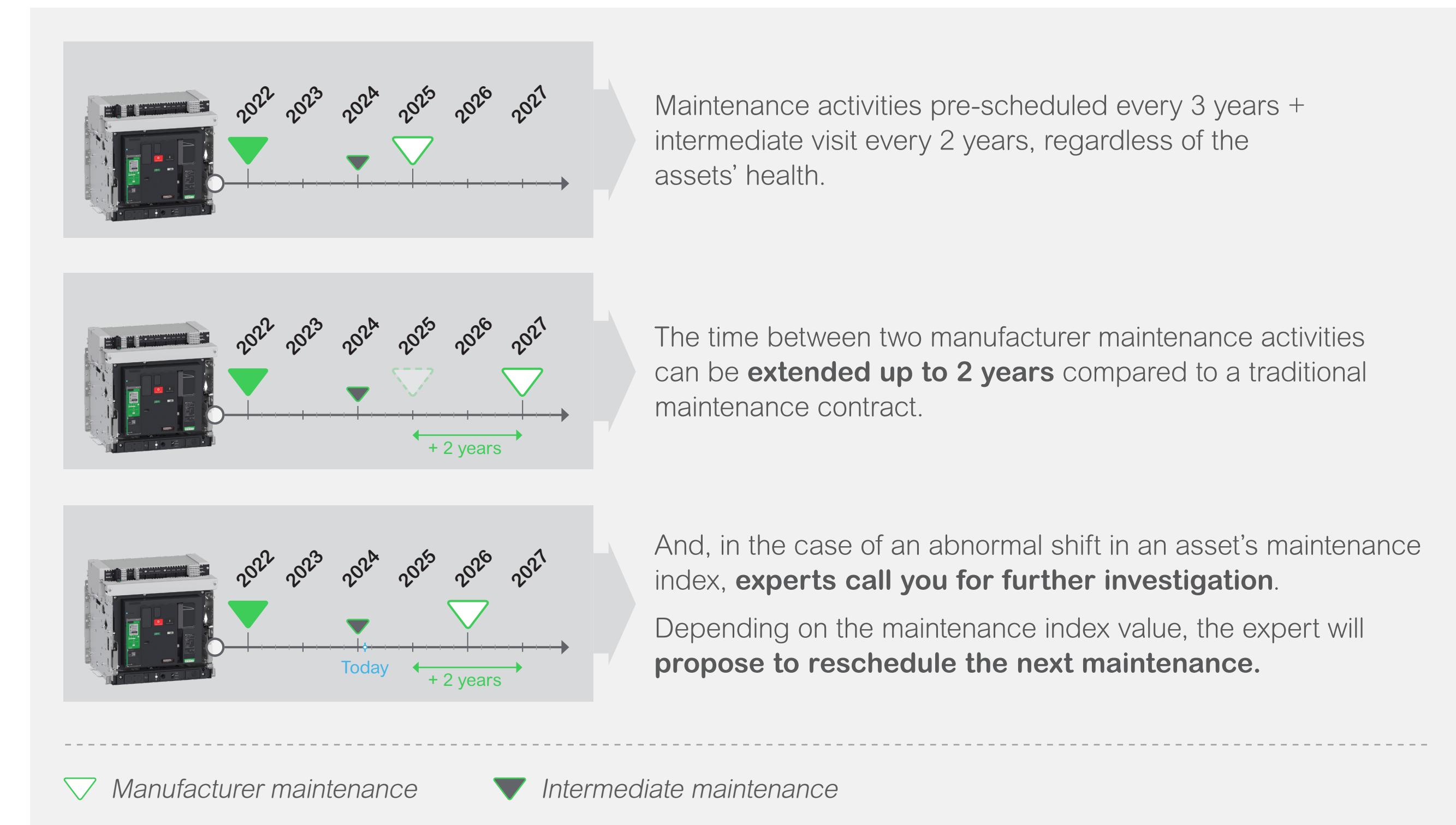


Scan here...

to download Condition-base  
maintenance White paper



With condition-based maintenance, the time between two manufacturer maintenance activities can be extended up to 2 years compared to a traditional maintenance



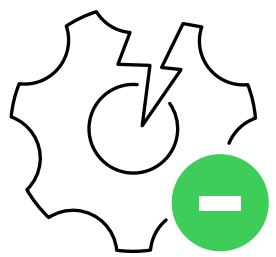
# The Challenges Involved

Initiating a shutdown isn't without its hurdles.

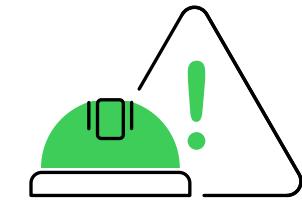
Here are a few challenges that need careful management:



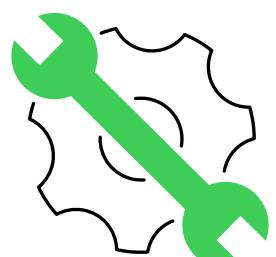
**Stringent Safety Regulations:** Ensuring worker and equipment safety demands meticulous attention to the latest and ever-evolving safety codes.



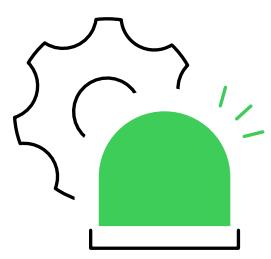
**Obsolete Equipment:** Older systems might need extraordinary replacements and robust contingency plans.



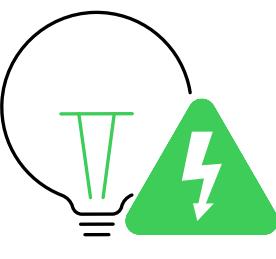
**Labor Scarcity:** Skilled labor for such specialized tasks can be hard to come by, and planning around available resources is crucial.



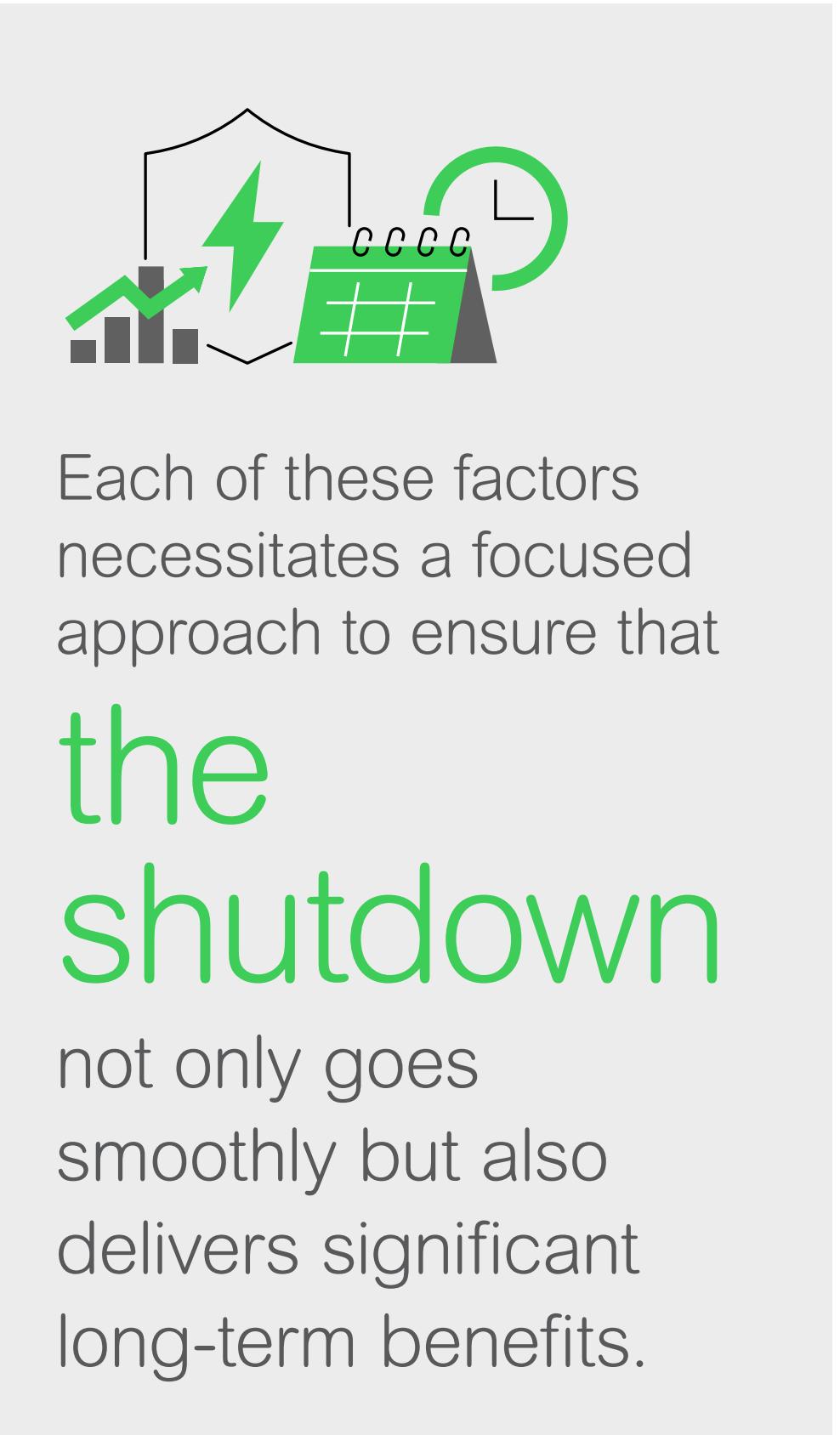
**Spare Parts Availability:** Ensuring you have necessary spare parts can be a logistical nightmare.



**Emergency Support Needs:** Unexpected issues can arise, requiring immediate and effective solutions.



**Aging Electrical Equipment:** As systems age, maintaining reliability and efficiency becomes increasingly challenging.

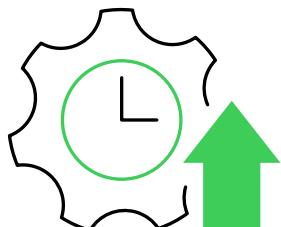


# Turning Challenges into Business Goals

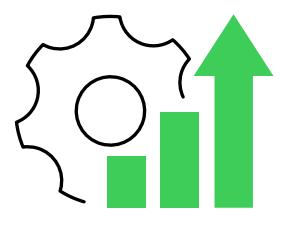
While these challenges are real, they pave the way for substantial opportunities:



**Safety and Compliance:** With everything powered down, it's easier and safer to install new safety measures and ensure compliance with local, state, federal, and code regulations.



**Increased Uptime:** Effectively managed shutdowns can dramatically increase overall uptime, ensuring that systems can respond and recover from disruptions.



**Efficiency and Productivity** uplift by maximizing maintenance shutdowns while minimizing costs and waste for increased demand.



**Sustainability and Upgrades:** Shutdowns offer a perfect opportunity to implement sustainable practices and upgrade systems to modern, more efficient standards.

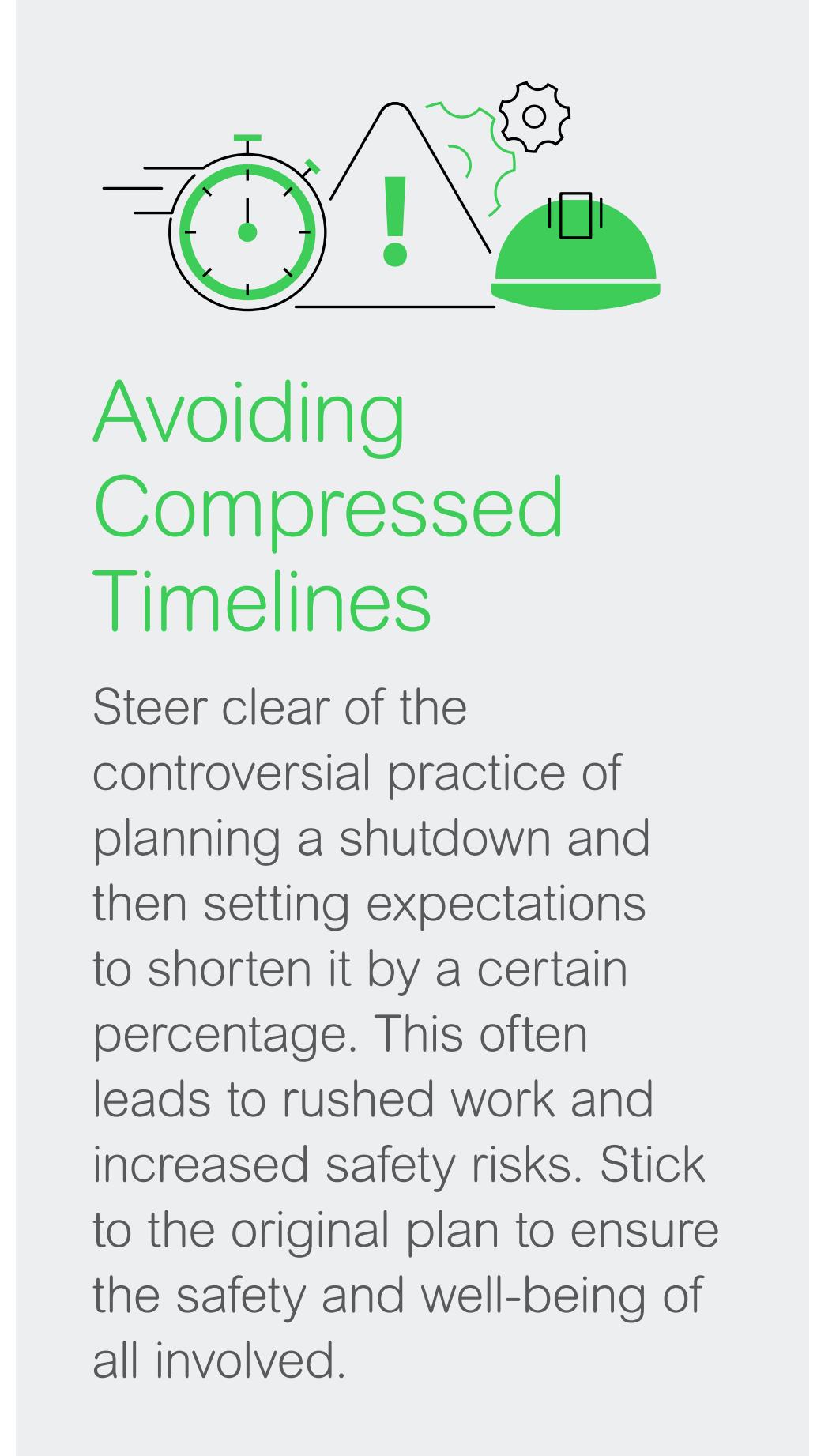


# Steps to an Annual Shutdown

To truly capitalize on this opportunity, **consider these steps** for a successful annual maintenance shutdown:

1. **Establish a Clear Scope**: Define what needs to be done, who is responsible, and what the timeline is.
2. **Develop a Detailed Plan**: Create a step-by-step guide with timelines, resources, and safety measures.
3. **Communicate Effectively**: Share the plan with all stakeholders and keep them updated throughout the process.
4. **Monitor Progress**: Track the progress of the shutdown to ensure it stays on schedule.
5. **Review and Improve**: After the shutdown, review what worked well and what could be improved for the next year.

By following these steps, facilities can navigate annual shutdowns effectively, minimizing risks and maximizing the potential for sustainable, efficient, and safe operations year-round.



## Avoiding Compressed Timelines

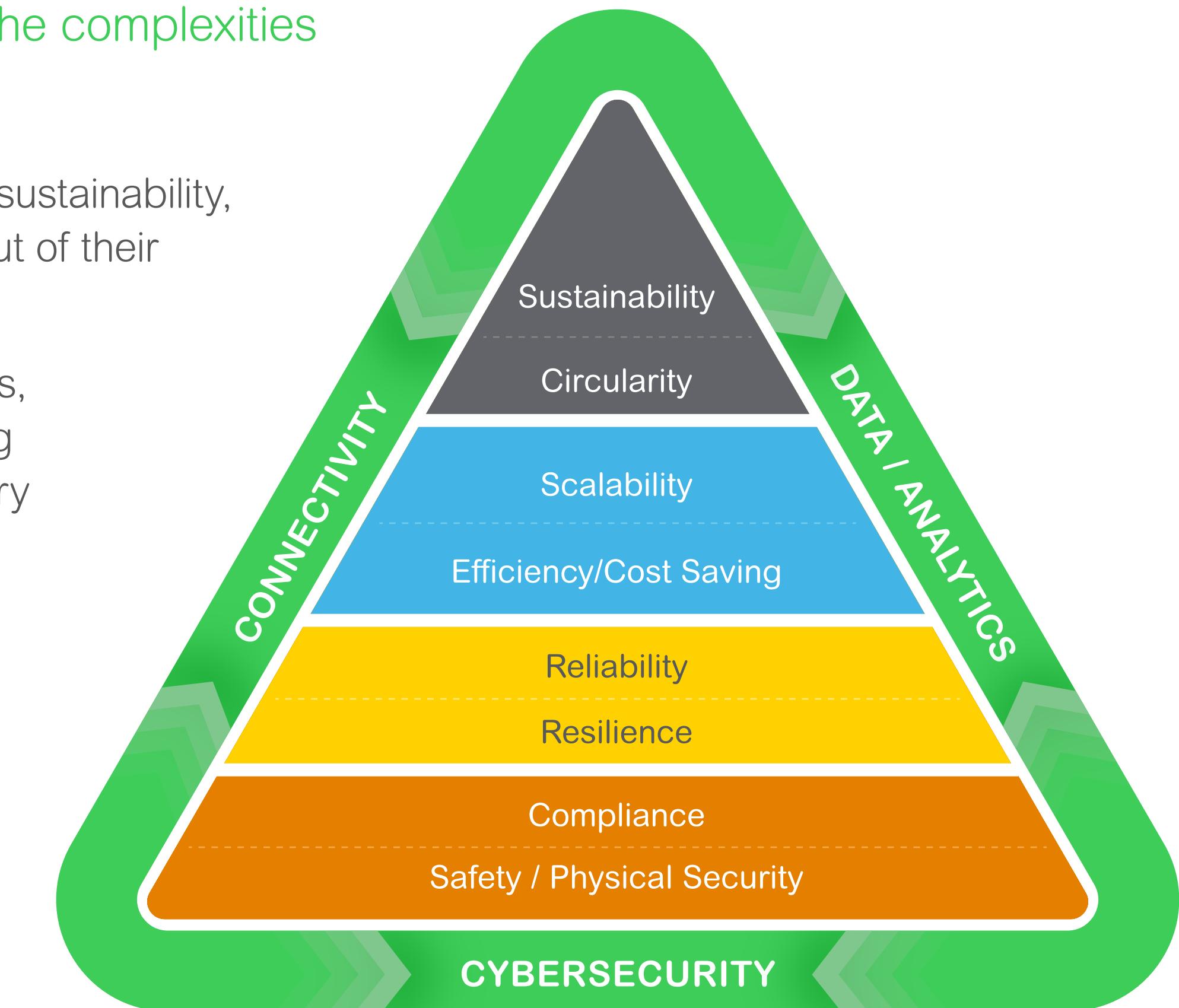
Steer clear of the controversial practice of planning a shutdown and then setting expectations to shorten it by a certain percentage. This often leads to rushed work and increased safety risks. Stick to the original plan to ensure the safety and well-being of all involved.

# How Schneider Electric Can Help

Regardless of the industry and the type of facility you manage, navigating the complexities of a maintenance shutdown can be daunting.

This is where Schneider Electric's Services shine. With our unwavering commitment to sustainability, inclusivity, and innovation, we stand ready to empower businesses to make the most out of their maintenance shutdowns and to achieve critical business outcomes.

Our solutions are designed to not only meet but exceed safety and efficiency standards, thereby fostering an environment where businesses can thrive sustainably. By choosing Schneider Electric, you opt for a partner that places your needs first, ensuring that every shutdown translates into a long-term operational advantage.



# How Schneider Electric Can Help (cont.)



# Embrace the Power of Shutdowns for a Sustainable Future

In conclusion, annual maintenance shutdowns are far from just a routine task. They are crucial periods that—when well-executed—can significantly uplift an organization's safety, resilience, efficiency, sustainability... and overall performance. Embrace these opportunities, navigate the challenges with confidence, and ensure that every shutdown becomes a stepping stone towards a brighter, more sustainable future.

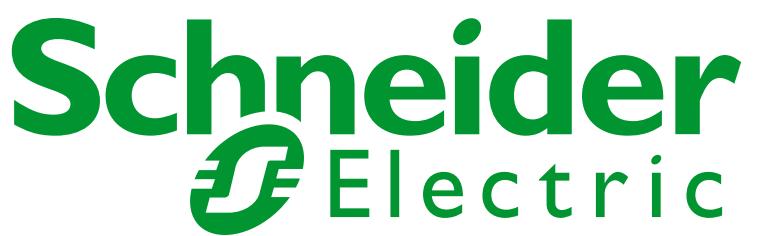


**Ready to transform your next maintenance shutdown?**

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