

# QUALITY HERALD

THE VOICE OF EXCELLENCE

## Trending Facility Management System Standard

SCAN ME



REQUIREMENTS OF ISO  
41001:2018

INTERNATIONAL DAY FOR  
DISASTER REDUCTION

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## From the Editor

Welcome to the 5th issue of Quality Herald - The Voice of Excellence.

In this issue, we turn our focus toward some of the most pressing global challenges: sustainability, climate change, and the quest for innovative solutions to complex problems. The future of quality isn't just about improving processes, but about taking responsibility for the impact of our actions on the environment and society at large.

As industries and individuals alike grapple with the effects of climate change, it becomes increasingly clear that problem-solving must extend beyond operational efficiency. We must adopt a holistic approach that balances economic growth with the need to protect our planet. Sustainability is no longer an option; it is a mandate that requires the collective intelligence of our brightest minds.

In the pages ahead, you will find insightful articles that explore these themes, offering practical strategies, case studies, and thought leadership. From the integration of sustainable practices into quality management systems to innovative problem-solving methodologies aimed at reducing environmental footprints, our contributors shine a light on the way forward.

As always, we remain committed to fostering a platform for ideas that challenge the status quo and drive excellence. I hope this issue inspires you to think deeply, act boldly, and contribute to a future where quality and sustainability go hand in hand.

Enjoy the read!

*Dr. Sumit Shandilya*  
Editor-in-Chief





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# Your Partner in Sustainability Excellence

In today's evolving business landscape, sustainability is not just an option—it's a necessity. At QGS, we help companies achieve their sustainability goals with a range of expert services

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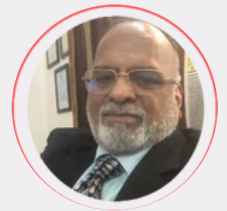
Business Responsibility and  
Sustainability Reporting  
(BRSR)

Carbon Border Adjustment  
Mechanism (CBAM)

Ecovadis Scoring Assistance

Lifecycle Assessment (LCA)

# INTRODUCTION TO FACILITY MANAGEMENT SYSTEM STANDARD – ISO 41001:2018



T. VENKATARAMAN, DIRECTOR, QGS

Organizations worldwide are feeling the pressure to improve efficiencies and do more with less resources. To meet these challenges, an increasing number of organizations are turning to facilities management (FM) as a way to optimize their operations.

**“Facility management”**—is essentially the science of keeping buildings and their systems running smoothly and efficiently within an organization. It comprises the tools and services necessary to ensure that an organization's facilities are well-maintained and its employees can work in a comfortable, safe environment. Facility management ( FM ) integrates multiple disciplines in order to have an influence on the efficiency and productivity of economies of societies, communities and organizations, as well as the manner in which individuals interact with the built environment. FM affects the health, well-being and quality of life of much of the world’s societies and population through the services it manages and delivers.

ISO 41001 standard provides the basis for a common interpretation and understanding of FM and the ways in which it can benefit organizations of all kinds. The development of the market for FM services would be enhanced by the presence of this common global structure and supporting standard. The sector benefits from a common basis upon which FM can be assessed and measured. This is the primary driver for, and purpose of, this standard.

In a globally-competitive environment, FM organizations and providers need to communicate among themselves and with interested parties using common principles, concepts and terms, including assessment and measurement of performance. The ISO 41001 standard is intended to raise the standard of care and increase levels of quality, thereby stimulating organizational maturity and competition for the delivery of FM.

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# REQUIREMENTS OF ISO 41001:2018

ISO 41001 IS BASED ON THE ISO HIGH-LEVEL STRUCTURE FOR MANAGEMENT SYSTEM STANDARDS.



ISO defines “Facility Management” as "an organizational function which integrates people, place and process within the built environment to improve the quality of life of people and the productivity of the core business."

This definition emphasizes the importance of integrating people, place, and process—the three key components of facilities management. By bringing these three elements together, an organization can create a work environment that is conducive to increased productivity and improved quality of life for employees.

## BENEFITS OF IMPLEMENTING FMS AS PER ISO 41001 STANDARD

**The benefits of an integrated system standard for FM include:**

### **1.improved workforce productivity, safety and health and well-being**

Facilities management can help improve workplace health and safety conditions by ensuring that buildings and grounds are well-maintained. This can lead to fewer accidents and illnesses, reduced risk, and a healthier workforce overall with improved service consistency.

### **2. Improved efficiency and effectiveness, thus improving cost benefits to organizations;**

Organizations can free up staff to focus on more strategic tasks by outsourcing the management of their buildings and grounds. By consolidating multiple service providers into one, organizations can reduce the amount of time and money spent managing vendor relationships. Organizations can save money by consolidating multiple service providers into one and by taking advantage of economies of scale. When the whole operation is more efficient, it can lead to lower costs for everyone involved.

### **3.Improved quality of life for employees**

Employees who work in well-maintained, safe, and comfortable buildings are more productive and have higher morale. This leads to increased retention rates and decreased absenteeism.

### **4. A sustainable future**

Organizations that are committed to sustainability can use facilities management services to reduce their environmental impact. When the facilities management team reduces energy consumption costs and invests in green infrastructure, the company creates an overall sustainably built environment.



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# INTERNATIONAL DAY FOR DISASTER REDUCTION: ITS SIGNIFICANCE IN THE INDIAN CONTEXT



**SURENDRA TIWARI**  
DIRECTOR, QUALITY GROWTH SERVICES

Observed annually on October 13, the International Day for Disaster Reduction (IDDR) is a global event dedicated to promoting awareness and action for reducing disaster risk and enhancing resilience. Established by the United Nations General Assembly in 1989, IDDR aims to foster a culture of disaster risk reduction (DRR) and encourage communities and governments to take proactive measures in mitigating the impacts of disasters. In the Indian context, this day holds particular significance due to the country's vulnerability to various natural and man-made hazards. This article explores the importance of IDDR in India and how it contributes to disaster preparedness and resilience.



## 1. The Indian Landscape of Disaster Risk

India is highly susceptible to a range of disasters, including floods, cyclones, earthquakes, droughts, and landslides. Its diverse geography and climatic conditions make it vulnerable to various natural hazards, while rapid urbanization and population growth exacerbate these risks. For instance:

- **Floods:** The Indian subcontinent frequently experiences severe flooding, particularly in the monsoon season, which affects millions of people and causes extensive damage to infrastructure and agriculture.
- **Cyclones:** Coastal regions are prone to cyclones, which can lead to devastating impacts on lives, property, and livelihoods.
- **Earthquakes:** India, especially the northern and northeastern regions, is situated in seismic zones that are prone to earthquakes.
- **Droughts:** Periodic droughts affect large parts of the country, impacting water availability and agriculture.

Given this context, IDDR serves as a crucial platform for raising awareness about disaster risks and promoting effective risk reduction strategies in India.

## 2. Promoting Disaster Preparedness and Awareness

- **Educate Communities:** Awareness campaigns and educational programs are organized to inform communities about disaster risks and preparedness measures. Local governments, non-governmental organizations (NGOs), and educational institutions play a key role in disseminating information and training people on how to respond to emergencies.
- **Engage Stakeholders:** IDDR encourages collaboration among government agencies, local authorities, businesses, and civil society organizations to develop and implement effective disaster risk reduction strategies. These collaborations help in sharing knowledge, resources, and best practices for enhancing resilience.
- **Highlight Success Stories:** The day is also used to showcase successful disaster risk reduction projects and initiatives. By sharing these success stories, communities can learn from others' experiences and apply similar strategies in their own regions.

### 3. Supporting Government Policies and Initiatives

India has developed a range of policies and frameworks to address disaster risk and resilience, including the National Disaster Management Act of 2005, the National Disaster Management Plan, and the formation of the National Disaster Management Authority (NDMA). IDDR reinforces the importance of these policies by:

- **Reinforcing Policy Implementation:** The day serves as a reminder of the need to implement and adhere to disaster management policies and plans effectively. It encourages government agencies and local authorities to review and strengthen their disaster preparedness and response mechanisms.
- **Encouraging Investment in DRR:** IDDR highlights the importance of investing in disaster risk reduction and resilience-building initiatives. It advocates for increased funding and resources for disaster management programs and infrastructure improvements.
- **Promoting Research and Innovation:** The day also underscores the role of research and innovation in improving disaster risk reduction practices. It encourages the development and adoption of new technologies and approaches for better risk assessment and management.

### 4. Addressing Challenges and Gaps

While IDDR plays a significant role in disaster risk reduction, several challenges remain in the Indian context:

- **Infrastructure Limitations:** In many regions, particularly in rural areas, inadequate infrastructure and resources hinder effective disaster management. Addressing these limitations requires targeted investments and improvements.
- **Coordination and Communication:** Effective disaster management often requires coordination among various stakeholders. Strengthening communication and collaboration mechanisms is essential for ensuring a unified and efficient response.
- **Climate Change Impacts:** The growing impacts of climate change exacerbate disaster risks, making it imperative to integrate climate resilience into disaster risk reduction strategies.



### Last but not the least

The International Day for Disaster Reduction holds significant relevance in the Indian context, where the challenges of managing disaster risks are substantial. By raising awareness, supporting government policies, and encouraging community engagement, IDDR contributes to building a more resilient and prepared society. As India continues to face various disaster risks, the principles and actions promoted by IDDR remain crucial for safeguarding lives, protecting property, and ensuring sustainable development. Embracing the lessons and initiatives associated with IDDR can help India better navigate its complex disaster landscape and work towards a safer and more resilient future





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*As the divine energy of Maa Durga blesses us with new beginnings, QGS Group wishes you the vibrant colors of Navratri with devotion and grace. May this auspicious time bring peace, prosperity, and joy to all!*

# Important Dates in October



## INDIAN AIR FORCE DAY 2024 - OCT 8TH

The Indian Air Force Day commemorates the official formation of the Indian Air Force on October 8th, 1932. This day is marked by grand celebrations across the country. It honors the sacrifices and achievements of the Air Force and its personnel.

## INTERNATIONAL GIRL CHILD DAY 2024 - OCT 11TH

The International Day of the Girl Child is celebrated annually on October 11 to raise awareness of the challenges faced by girls around the world and to promote girls' empowerment and the fulfillment of their human rights.



## INTERNATIONAL POVERTY ERADICATION DAY - OCT 17TH

The International Day for the Eradication of Poverty is celebrated annually on October 17th to raise awareness about the global poverty crisis and to promote solutions to the problem.

## UNITED NATIONS DAY 2024 - OCT 24TH

United Nations Day (UN Day) is celebrated on October 24 each year to commemorate the anniversary of the entry into force in 1945 of the UN Charter. The UN Charter is the founding document of the United Nations and sets out the rights and responsibilities of member states, as well as the organization's goals and objectives.







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# Global Standards Shift

## *A Simple Change Igniting Climate Awareness*

A recent update to international standards could have a significant impact on climate change awareness.

The International

Organization for Standardization (ISO) amended all its management system standards in February 2024. These amendments require organizations seeking certification to consider two key factors: how climate change might affect their goals, and the needs and expectations of stakeholders related to climate change.

### ***Data-Driven Insights:***

According to a recent study by the World Resources Institute, over 80% of global GDP is generated by companies that are directly or indirectly exposed to climate risks. This highlights the critical importance of addressing climate change for businesses worldwide.

Furthermore, a survey conducted by the United Nations Global Compact found that 85% of companies believe that climate change is a material risk to their business. This demonstrates the growing recognition of the financial implications of climate change. The ISO amendments can play a crucial role in addressing these risks. By requiring organizations to consider climate change in their operations, the amendments can drive a shift towards more sustainable practices and reduce exposure to climate-related vulnerabilities.

### ***Case Studies:***

Several organizations have already begun to



implement the ISO amendments and are experiencing positive results. For example, a major multinational corporation in the manufacturing sector reported a 15% reduction in greenhouse gas emissions after conducting a climate risk assessment as part of their ISO certification process.

Another example is a small business in the tourism industry that implemented sustainable practices to meet the expectations of environmentally conscious customers. As a result, the business experienced a 20% increase in revenue and improved its reputation as a responsible company.

### ***Conclusion:***

The ISO amendments have the potential to significantly enhance climate change awareness and drive action. By requiring organizations to consider climate risks and stakeholder expectations, the amendments can encourage a shift towards more sustainable practices and contribute to a more resilient and sustainable future. As businesses increasingly recognize the importance of addressing climate change, the ISO amendments can serve as a valuable tool for driving positive change.





## AI Adoption Soars in India, But Sustainability Challenges Loom

**New Delhi, India – September 23, 2024:** A new report by Pure Storage reveals that AI adoption is rapidly accelerating in India, driven by the desire for innovation and improved efficiency. However, the growing demand for AI is also straining data centers and raising concerns about energy consumption and sustainability.

The report, titled "India's AI Journey: Balancing Innovation with Sustainable Growth," found that 48% of Indian enterprises prioritize AI to maintain their competitive edge. AI is being used across various functions, including marketing, IT operations, and fraud detection. The banking, financial services, and insurance (BFSI) sector leads in AI adoption, with 68% of organizations already implementing AI technologies.

While AI offers significant benefits, it also presents challenges. The increasing demand for AI is driving higher energy consumption and straining data centers. To address these issues, organizations are investing in upgrades to their IT infrastructure, including data management tools, storage, and security solutions.

The report highlights the importance of balancing AI innovation with sustainability goals. As India

strives to achieve its ambitious economic targets, it is crucial to ensure that AI adoption is done in a way that is both sustainable and responsible. By investing in energy-efficient infrastructure and adopting sustainable practices, organizations can harness the power of AI while minimizing its environmental impact.

## Danobat's Modular Approach to Lean Manufacturing Improves Lead Times

**Elgoibar, Spain – September 23, 2024:** Danobat, a leading manufacturer of custom machines, has successfully implemented a modular approach to its production process, resulting in significant improvements in lead times and overall efficiency. By breaking down machines into individual modules, Danobat has streamlined its manufacturing operations and reduced the time it takes to produce custom machines. This modularity allows the company to reuse components across different projects, saving time and resources.

Danobat's revamped production floors are organized into dedicated teams, each responsible for producing specific subassemblies and modules. This collaborative approach enhances communication and efficiency, leading to faster production times.

In addition to modularity, Danobat has also invested in advanced technologies and partnerships to further improve its manufacturing capabilities. The company's R&D team focuses on developing innovative solutions to meet specific customer needs, while partnerships with other companies provide access to specialized expertise.

Danobat's commitment to lean manufacturing has not only improved its efficiency but has also strengthened its financial sustainability. By optimizing its production processes and delivering high-quality custom machines, Danobat has gained the trust of its customers and secured repeat business.

The company's success story demonstrates the power of modularity and lean manufacturing principles in driving efficiency and competitiveness. As businesses continue to strive for continuous improvement, Danobat's approach offers valuable insights and inspiration.

## Corporate Governance in the Age of Remote Work: Navigating New Challenges

**New Delhi, India – September 23, 2024:** The shift to remote work has fundamentally transformed corporate governance dynamics in India. As businesses adapt to this new operating environment, they must address emerging challenges related to communication, oversight, compliance, and cybersecurity.

### Key Challenges:

- **Communication and Collaboration:** Remote work can hinder effective communication and collaboration among team members. Organizations must invest in robust digital tools and establish clear communication protocols to overcome these challenges.
- **Oversight and Accountability:** Monitoring employee performance and ensuring accountability can be difficult in remote settings. Companies must develop effective oversight mechanisms and performance metrics to address these issues.
- **Compliance and Cybersecurity:** Remote work introduces new cybersecurity risks and compliance challenges. Organizations must strengthen their security measures and ensure adherence to relevant regulations.

### Addressing the Challenges:

- **Invest in Technology:** Utilize advanced communication tools and collaboration platforms to facilitate effective communication and collaboration.
- **Establish Clear Policies and Procedures:** Develop clear guidelines for remote work, including performance expectations,

- communication protocols, and data security measures.
- **Foster Trust and Engagement:** Prioritize team-building activities, provide regular feedback, and support employee well-being to maintain engagement and trust.
- **Strengthen Cybersecurity:** Implement robust security measures, conduct regular cybersecurity training, and ensure compliance with data protection regulations.

### Conclusion:

The transition to remote work presents both challenges and opportunities for corporate governance.

By addressing the key challenges and adopting innovative solutions, organizations can navigate this new landscape successfully. By prioritizing effective communication, oversight, compliance, and cybersecurity, companies can build resilient governance frameworks that support long-term success in the age of remote work.





# ESG: A Game-Changer for Logistics Companies

**New Delhi, India – September 23, 2024:** The logistics industry is facing increasing pressure to adopt sustainable practices and reduce its environmental impact. By embracing ESG principles, logistics companies can differentiate themselves, win new business, and contribute to a more sustainable future.

## Key Challenges and Opportunities:

- **Environmental Impact:** The logistics sector is a major contributor to greenhouse gas emissions. Transitioning to cleaner fuels, upgrading infrastructure, and optimizing operations are essential for reducing environmental impact.
- **High Costs:** Implementing sustainable practices can be expensive, especially for small and medium-sized logistics companies. Governments and industry associations can play a role in supporting the transition by providing incentives and subsidies.
- **Limited Infrastructure:** The lack of adequate charging infrastructure for electric vehicles and other sustainable technologies can pose challenges. Investing in infrastructure development is crucial for widespread adoption of green solutions.
- **Competitive Advantage:** Companies that prioritize ESG can differentiate themselves in the market, attract environmentally conscious customers, and enhance their brand reputation.
- **Investor Interest:** Investors are increasingly seeking businesses with strong ESG credentials. By integrating ESG principles, logistics companies can improve their financial performance and attract investment.

## Success Stories:

Many logistics companies have successfully implemented ESG initiatives, demonstrating the potential for positive impact. For example, some companies have transitioned to electric fleets,

invested in renewable energy, and optimized their delivery routes to reduce emissions. These efforts have not only improved their environmental footprint but have also led to cost savings and operational efficiencies.

## Conclusion:

The shift towards sustainable logistics is a strategic imperative for companies operating in this sector. By embracing ESG principles, logistics companies can address environmental challenges, enhance their brand reputation, and gain a competitive advantage. While the transition may present challenges, the long-term benefits are significant. By leading the way in sustainability, logistics companies can contribute to a more sustainable future and secure their position as industry leaders.





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### **Environmental Management:**

Energy efficiency, waste & water management, carbon footprint analysis, decarbonization strategies, climate change risk analysis.

### **Capacity Building:**

Training & workshops on business sustainability.

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- Business Sustainability & ESG Energy Efficiency And Green Transition
- Waste Management
- Water Management
- CSR Compliance
- Green Building Consulting
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"Ethiopian Roads Administration has enhanced its occupational health and safety management system through an IS 45001:2018 lead auditor training conducted by Mr. Anurag Srivastav and Mr. Jogender Kumar."

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# GLIMPSSES



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# ISO-lated Humor



## The Perfect ISO Standard

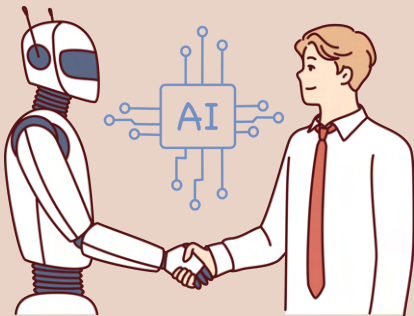
**Inspector:** "Have you implemented the latest ISO 9001 standard in your factory?"

**Factory Manager:** "Yes, we did. But now we're waiting for ISO 9002, the 'How to Understand ISO 9001' standard!"

## Quality Control Comedy

**Employee 1:** "Why do quality inspectors make great comedians?"

**Employee 2:** "Because their jokes always pass the test... but barely meet the standard!"



## AI to the Rescue

**Engineer:** "We've integrated artificial intelligence into our processes!"

**Manager:** "Great! How's that working?"

**Engineer:** "Well, the machine just asked for a day off—it said it's 'overworked' from all the data processing!"

## Sustainable Solutions

**Customer:** "Do you have a sustainable version of this product?"

**Salesperson:** "Sure! It's so sustainable that once you buy it, it sustains our profits forever!"







# Green Financial Management - A Sustainable Approach to Business Finance

As the world faces increasing environmental challenges, businesses are being called upon to adopt more sustainable practices across all operations. Among the key areas where sustainability is taking center stage is financial management. Green Financial Management (GFM) is an emerging approach that integrates environmental responsibility with financial decision-making, ensuring that a company's economic activities are aligned with environmental sustainability.

## Green Financial Management

Green Financial Management refers to the practice of incorporating environmental concerns into financial strategies, policies, and operations. It goes beyond traditional financial management, which focuses primarily on profitability and shareholder value, by also considering the long-term environmental impact of financial decisions.

This approach promotes sustainable investments, resource conservation, and ethical financial practices that contribute to a greener economy. GFM includes areas such as responsible investing, green financing, carbon accounting, and sustainable supply chain management.

## Key Principles of Green Financial Management

### 1. Sustainability-Driven Investment

GFM encourages investments in projects and companies that promote sustainable development. This can include renewable energy projects, sustainable agriculture, and green technology ventures. By aligning investment strategies with environmental goals, companies can contribute to a low-carbon economy while driving long-term profitability.

### 2. Carbon Accounting and Management

One of the most significant aspects of GFM is understanding and managing a company's carbon



footprint. Financial managers are now required to quantify the environmental impact of their operations, including carbon emissions, and create strategies to mitigate these impacts through investments in carbon offsets or energy-efficient technologies.

### 3. Green Financing

Green bonds, loans, and other financing instruments are specifically designed to fund projects that have positive environmental outcomes. Companies can leverage these green financial products to access capital for projects like clean energy installations, eco-friendly infrastructure, or sustainable manufacturing processes.

### 4. Sustainable Supply Chain Finance

Businesses are increasingly being held accountable not only for their own environmental footprint but also for the sustainability of their supply chains. GFM supports the evaluation of suppliers and partners based on their environmental practices, promoting the integration of sustainability across the entire supply chain.

### 5. Ethical Risk Management

Green Financial Management integrates environmental risks into the company's broader risk management framework. For example, companies exposed to climate-related risks, such as those in the agriculture or energy sectors, must consider how climate change might impact their financial stability and put mitigation strategies in place.

## The Business Case for Green Financial Management

Adopting Green Financial Management practices is not just about corporate social responsibility—it is also a smart business move. Here's why:

- **Cost Savings** - Implementing energy-efficient technologies and reducing waste can lead to significant cost savings in the long run. By cutting down on resource consumption, companies can lower operational expenses while also reducing their environmental impact.
- **Enhanced Brand Reputation** - Companies that actively engage in sustainable practices can build stronger relationships with customers, investors, and regulators. A commitment to green financial management signals a long-term vision for both profitability and sustainability, enhancing brand value.
- **Access to Green Capital** - Financial institutions are increasingly offering preferential terms to companies that meet sustainability criteria. Green financing options, such as green bonds or loans, offer businesses access to cheaper capital while supporting environmentally beneficial projects.
- **Regulatory Compliance** - As governments around the world implement stricter environmental regulations, businesses that have already adopted green financial management practices will be better positioned to comply with these regulations, avoiding penalties and gaining competitive advantages.

## Challenges and the Path Forward

While the benefits of Green Financial Management are clear, there are still challenges that businesses must overcome. A key hurdle is the availability of standardized metrics and reporting frameworks to assess environmental impacts effectively. However, as sustainability reporting frameworks like the Global Reporting Initiative (GRI) and the Task Force on Climate-Related Financial Disclosures (TCFD) continue to evolve, financial managers will have better tools to integrate sustainability into financial strategies.

Moreover, creating a corporate culture that embraces sustainability across all levels is crucial for the success of Green Financial Management. This requires a commitment



from leadership to prioritize sustainability, as well as continuous education and training for finance professionals to adapt to the new demands of GFM.

Green Financial Management represents a fundamental shift in how companies approach their financial operations. By balancing financial performance with environmental stewardship, businesses can not only enhance their bottom line but also contribute to a more sustainable future. As the demand for eco-friendly practices grows from consumers, investors, and regulators, companies that embrace GFM will be at the forefront of the green economy.

By integrating sustainability into financial strategies today, businesses can ensure they are prepared for the challenges of tomorrow—building a resilient, profitable, and responsible organization for the future.





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# Manufacturing Operations and Climate Change: Navigating the Impact

The manufacturing industry has long been the backbone of economic development worldwide, providing essential goods and driving industrial growth. However, the increasing threat of climate change has turned the spotlight on the environmental consequences of traditional manufacturing practices. The carbon-intensive nature of many manufacturing operations, along with resource consumption and waste generation, has made the sector a significant contributor to global greenhouse gas (GHG) emissions. As the world moves toward a low-carbon economy, the manufacturing industry faces both challenges and opportunities to transform its operations and mitigate its impact on climate change.

## *The Link Between Manufacturing and Climate Change*

Manufacturing is responsible for a significant portion of global carbon dioxide (CO<sub>2</sub>) emissions. In fact, the industrial sector, which includes manufacturing, accounts for approximately 21% of total GHG emissions worldwide, making it a key driver of climate change. Some of the key contributors to emissions in the manufacturing sector include:

### **1. Energy Consumption**

Manufacturing processes are often energy-intensive, relying heavily on fossil fuels such as coal, oil, and natural gas to power machinery and equipment. This dependence on non-renewable energy sources results in significant CO<sub>2</sub> emissions.

### **2. Raw Material Usage**

The extraction and processing of raw materials, such as



metals, plastics, and chemicals, generate substantial emissions.

The demand for virgin materials places a strain on natural resources, leading to deforestation, soil degradation, and biodiversity loss.

### **3. Waste and By-products**

Many manufacturing processes generate waste, including hazardous chemicals, non-recyclable materials, and by-products that require energy-intensive disposal or treatment, contributing further to emissions.

### **4. Transportation and Logistics**

The transportation of raw materials, components, and finished products across global supply chains contributes to the sector's carbon footprint. The reliance on fossil fuel-powered transportation exacerbates the impact of manufacturing on climate change.

## **Climate Change's Impact on Manufacturing**

As climate change intensifies, its effects are already being felt across the manufacturing sector, disrupting operations and creating new challenges. Some of the key impacts include:

### **1. Supply Chain Disruptions**

Climate change has increased the frequency and intensity of extreme weather events, such as hurricanes, floods, and droughts. These events can disrupt global supply chains, leading to delays in the delivery of raw materials, increased costs, and production stoppages.

For example, flooding can damage transportation networks, while droughts may affect the availability of water, a critical resource in many manufacturing processes.

### **2. Energy Vulnerability**

Manufacturers heavily reliant on fossil fuels face heightened risks due to climate policies aimed at reducing emissions. As governments implement stricter regulations, such as carbon pricing and emissions caps, manufacturers may experience rising energy costs, leading to increased production costs. Additionally, the transition to renewable energy sources may require significant investments in infrastructure and technology.

### **3. Changing Regulatory Landscape**

Governments worldwide are tightening environmental regulations in response to climate change, setting stricter emissions standards and sustainability goals. For manufacturers, this means the need for greater transparency in reporting emissions and environmental performance, as well as compliance with regulations that may require the adoption of cleaner technologies.

### **4. Water Scarcity**

Many manufacturing processes are water-intensive, such as cooling systems, cleaning, and production of goods like textiles and food. Climate change is exacerbating water scarcity in many regions, affecting manufacturers that depend on large quantities of water. Water shortages can increase costs and limit production capacity, particularly in areas already prone to drought.

### **5. Shifting Consumer Preferences**

Consumers are increasingly aware of the environmental impact of the products they purchase. This growing demand for eco-friendly and sustainable goods is forcing manufacturers to rethink their production processes, materials, and product life cycles. Companies that fail to align with consumer expectations may face reputational risks and loss of market share.

## **Strategies for Mitigating Climate Change in Manufacturing**

While climate change presents substantial risks to the manufacturing sector, it also creates opportunities for innovation and long-term resilience. Manufacturers can take proactive steps to reduce their environmental impact and adapt to the changing climate.

Key strategies include:

### **1. Energy Efficiency and Renewable Energy**

One of the most effective ways to reduce emissions in manufacturing is by improving energy efficiency. This can be achieved through the adoption of advanced technologies, such as energy-efficient machinery, lighting systems, and heat recovery systems. Manufacturers can also transition to renewable energy sources, such as solar, wind, and biomass, to power their operations and reduce reliance on fossil fuels.

### **2. Circular Economy Practices**

Embracing the principles of the circular economy can help manufacturers minimize waste and reduce their environmental footprint. This involves designing products with durability, repairability, and recyclability in mind, as well as reusing and recycling materials to create closed-loop systems. Circular manufacturing reduces the demand for virgin raw materials and lowers overall emissions.

### **3. Sustainable Supply Chain Management**

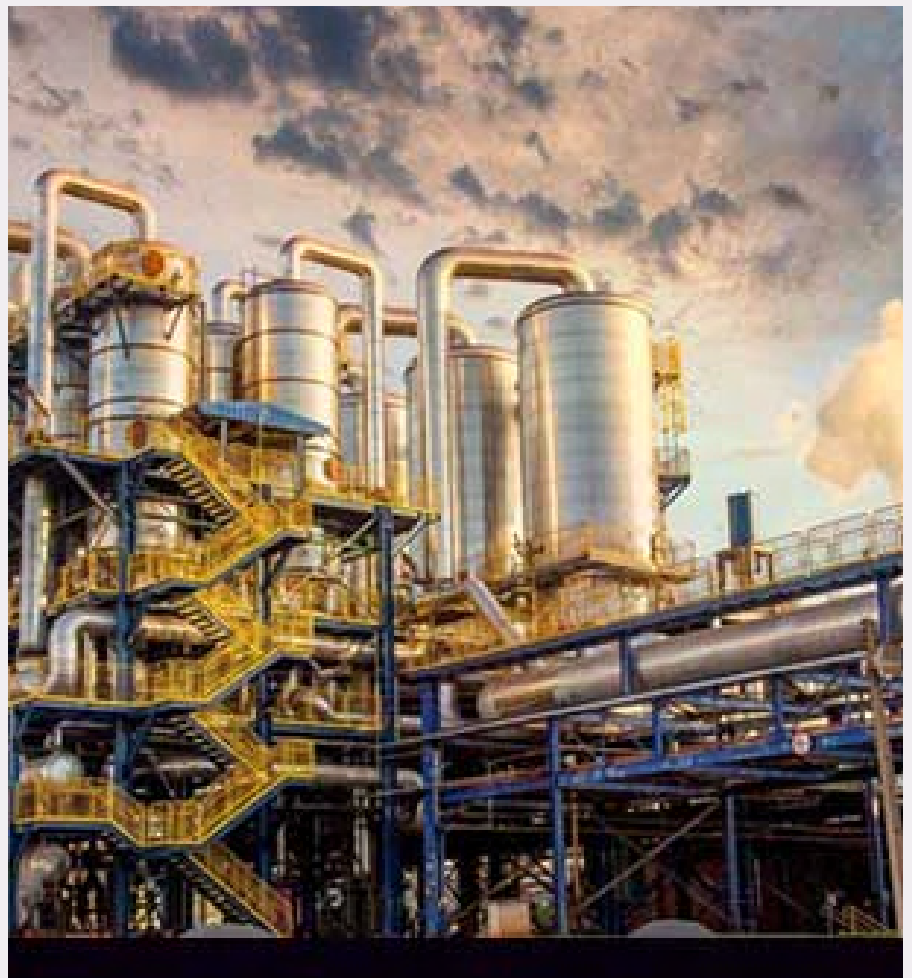
Manufacturers can collaborate with suppliers and partners to ensure that sustainability practices are integrated throughout the supply chain. This may involve sourcing materials from eco-friendly suppliers, reducing transportation emissions, and improving logistics efficiency. Adopting digital technologies,

such as blockchain, can enhance transparency and traceability in the supply chain and reduce emissions.

### **The Path Forward**

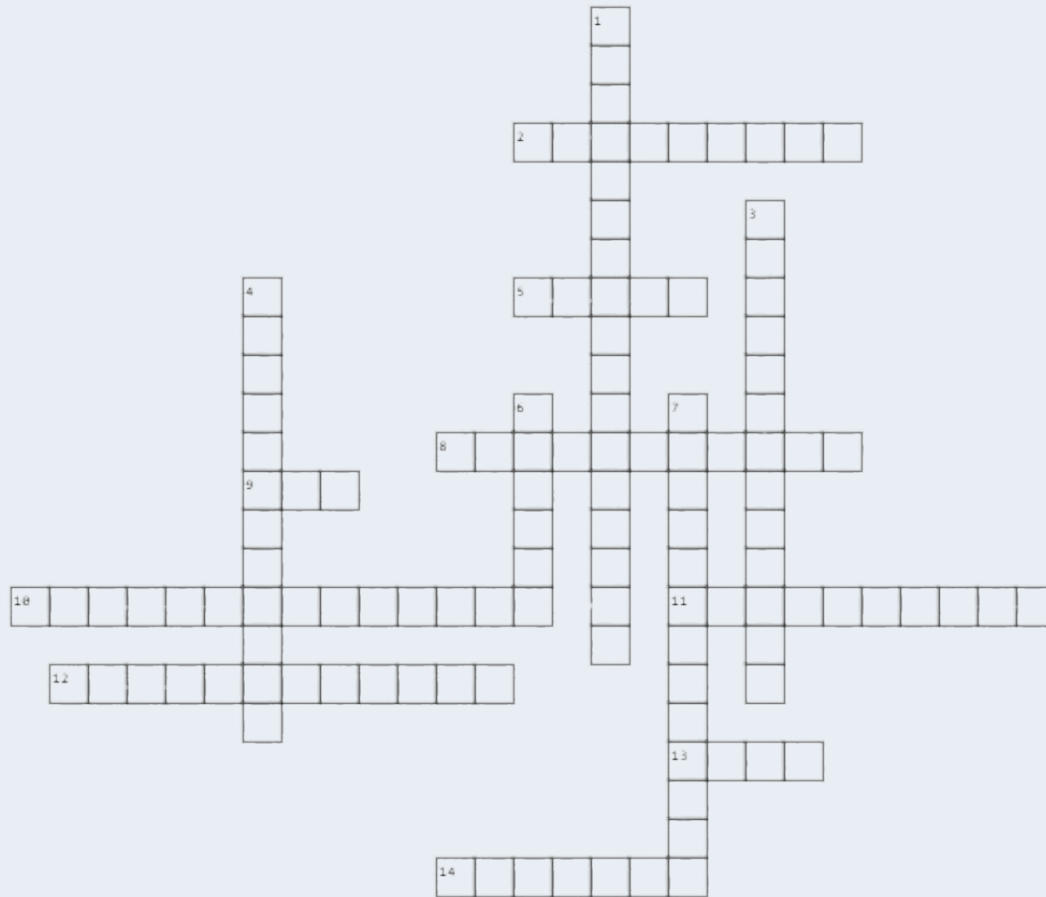
The manufacturing sector must take bold action to address its contribution to climate change and mitigate the risks it faces. Companies that proactively embrace sustainability and reduce their carbon footprint will not only contribute to the global fight against climate change but also enhance their competitiveness and resilience in an increasingly regulated and environmentally conscious marketplace.

At the heart of this transition is the recognition that sustainable manufacturing is not just about compliance or reputation—it is about securing long-term profitability, operational continuity, and a healthier planet. By integrating sustainability into their operations, manufacturers can lead the way in creating a more sustainable, low-carbon future for industries and societies alike.





# Quality and Management Systems Crossword



## Across

- 2. - A type of technology that uses renewable energy sources
- 5. - A mathematical model used to represent a real-world problem
- 8. - A graphical representation of a linear programming problem
- 9. - International Organization for Standardization
- 10. - A quality control tool used to identify and prioritize problems
- 11. - A quality control tool used to identify and eliminate defects
- 12. - A quality control tool used to monitor process variation
- 13. - A method of improving efficiency by eliminating waste
- 14. - A measure of how well a product or service meets customer needs

## Down

- 1. - A statistical measure of dispersion
- 3. - A method of evaluating the effectiveness of a system
- 4. - A mathematical technique used to optimize resource allocation
- 6. - Continuous improvement process
- 7. - A type of technology that uses biological processes to create products

4th Edition winners -

1. Sahil Bhandari, 2. Bhanu Pratap, 3. Puja Das, 4. Dheeraj Garg, 5. Ashok Kumar Mittal

*Want to get featured? Send in your answers at [info@qgspl.com](mailto:info@qgspl.com) And the first 15 correct responses shall feature in the next issue*

ANSWER OF THE 4th Edition-

ACROSS - ANDON, POYAKA, EMPOWERMENT, DPMO, PULL, BENCHMARKING  
DOWN - PARETOCHART, FISHBONE, DMAIC, GEMBA

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# Green Hiring Practices and Analytics – A Step Towards Sustainable Talent Acquisition

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In today's rapidly evolving business landscape, sustainability is no longer an option but a necessity. As companies strive to align their operations with environmentally friendly practices, a new trend has emerged in the realm of human resource management — green hiring. This approach combines sustainability with talent acquisition to attract and retain employees who not only fit the job description but also resonate with a company's environmental and social values. As green hiring gains traction, analytics plays an increasingly pivotal role in ensuring its success.

## What is Green Hiring?

Green hiring refers to the integration of sustainable practices throughout the recruitment process. It involves seeking candidates who possess eco-conscious values, promoting roles that contribute to environmental sustainability, and implementing resource-efficient methods during hiring. This initiative goes beyond recruiting talent and positions companies as socially responsible employers, improving both brand image and organizational culture.

### Green hiring practices focus on reducing the environmental footprint of recruitment by:

Using digital methods for applications and interviews to minimize paper use.

Promoting remote working opportunities to decrease travel emissions.

Hiring for roles that focus on environmental sustainability, such as green project managers, sustainability officers, and energy analysts.

Partnering with eco-friendly job boards and platforms that prioritize sustainability-driven companies.

## Benefits of Green Hiring Practices

**Attracting Top Talent** - A growing number of job seekers are looking for companies that align with their personal values. By adopting green hiring practices, businesses can appeal to eco-conscious candidates, especially Millennials and Gen Z, who prioritize environmental responsibility.

**Enhancing Brand Reputation** - Companies that prioritize sustainability, both internally and externally, strengthen their brand reputation. Green hiring practices demonstrate a commitment to corporate social responsibility, which resonates with customers, investors, and potential employees alike.

**Cost Reduction** - By implementing green practices such as digital applications and remote interviewing, companies can save costs associated with paper usage, travel, and physical office space. Analytics can further refine these processes to ensure maximum efficiency.

**Boosting Employee Engagement** - Employees who share the company's sustainability vision are more likely to be engaged and motivated. Green hiring helps build a workforce that is not only aligned with business goals but also passionate about making a positive environmental impact.







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October 14-18, 2024

**ISO 45001 Lead Auditor**

October 21-22, 2024

**IMS IQA**

October 01-06, 2024

**ISO 14001 Lead Auditor**

Starting from Oct 5th

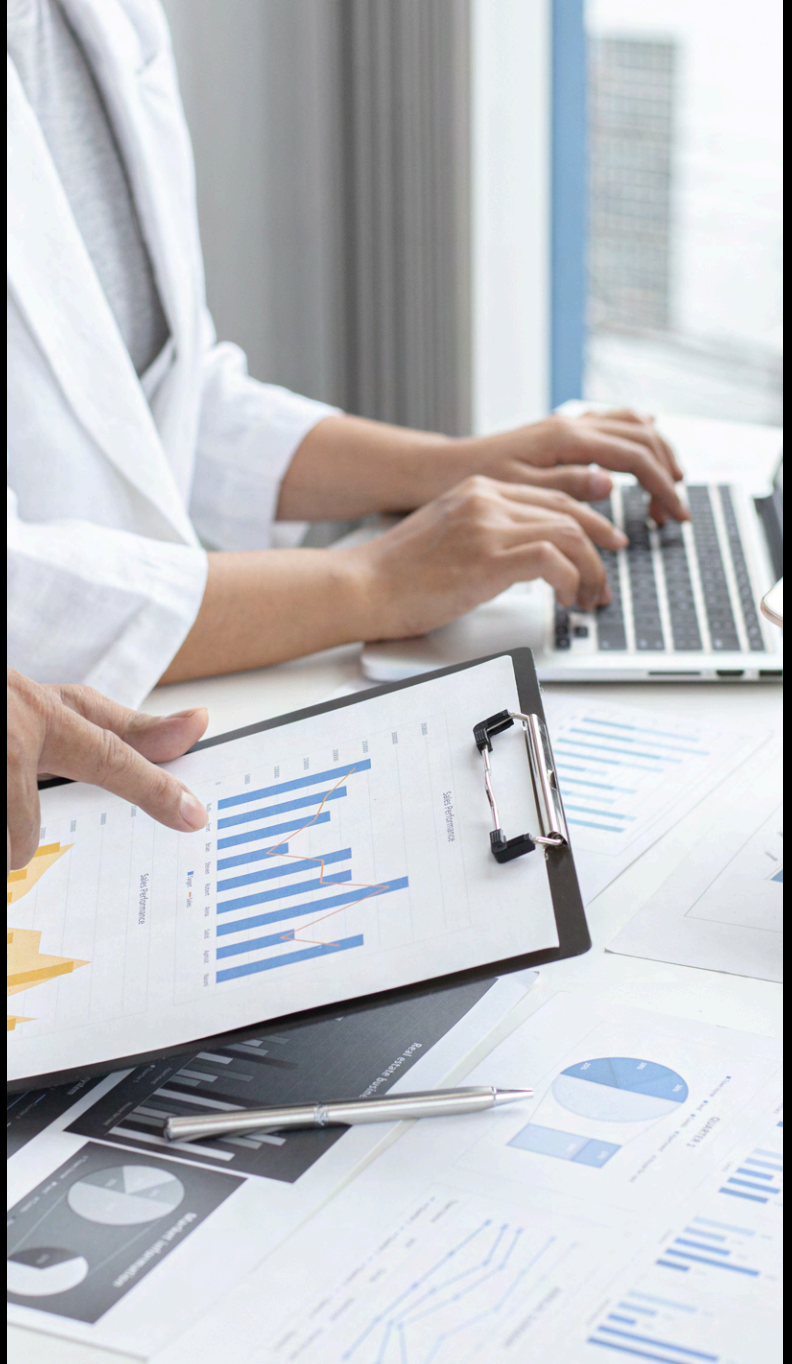
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