

EIM INSIGHTS

Your Monthly Update on Energy Developments



March 11 2025

OPEC Chief: Oil Sector Needs \$640 Billion in Annual Investments to Meet Future Demand

The oil and gas industry will require an annual investment of approximately \$640 billion to sustain global energy demand until 2050, OPEC according to Secretary-General Haitham Al Ghais. Speaking at a recent energy conference. A1 Ghais emphasized maintaining a stable and reliable oil supply will necessitate significant funding across multiple sectors of the oil industry.



Massive Investment in Exploration and Production

The exploration and production segment will take the lion's share of investment, with \$14.2 trillion needed over the coming decades—averaging \$525 billion per year. This funding is essential for discovering and developing new oil fields while ensuring the continued efficiency of existing operations.

Infrastructure and Refining Also Demand Capital

Beyond upstream operations, refining, transportation, and storage infrastructure will require approximately \$1.9 trillion in cumulative investment. The sector must modernize existing refineries and develop new projects to meet evolving fuel demands and environmental regulations.

Challenges and the Role of Energy Transition

Despite these investment needs, the oil sector faces challenges such as policy uncertainties, geopolitical risks, and energy transition pressures. However, Al Ghais reaffirmed that oil will remain a key component of the global energy mix for the foreseeable future. He urged governments and investors to support long-term funding strategies to ensure energy security and market stability.

Outlook for the Oil Industry

As the world balances energy transition goals with economic growth, oil companies and producing nations will need to strategically allocate capital to enhance production efficiency, reduce carbon footprints, and integrate advanced technologies. The projected investment levels reflect the industry's commitment to maintaining supply reliability while adapting to changing global energy dynamics.





ADNOC Gas Seals Landmark 14-Year LNG Supply **Deal with Indian Oil Corporation**

ADNOC Gas has solidified its presence in the global LNG market by signing a 14-year sales and purchase agreement (SPA) with Indian Oil Corporation Ltd (IndianOil). The deal will see ADNOC Gas supply up to 1.2 million tonnes per annum (mtpa) of liquefied natural gas (LNG) to India's leading integrated energy company, reinforcing the UAE-India energy partnership.



A Strengthened Partnership

This agreement formalizes the previous Heads of Agreement (HoA) between the two companies, transitioning into a long-term SPA. The first LNG deliveries are scheduled to begin in 2026. ensuring a steady and reliable gas supply to support India's growing energy needs.

Strategic Deal with Economic Impact

Valued between \$7 billion to \$9 billion, the agreement marks a major milestone in ADNOC Gas' expansion strategy. The UAE continues to play a key role in India's ambition to increase natural gas consumption to 15% of its primary energy mix by 2030, promoting lower-carbon energy solutions.

Fatema Al Nuaimi, CEO of ADNOC Gas, highlighted the significance of this deal, stating:

"This agreement underscores our strong relationship with IndianOil and reinforces the deep-rooted energy ties between the UAE and India. As a responsible energy supplier, ADNOC Gas remains committed to delivering reliable, lower-carbon gas to support India's energy transition."

A Growing LNG Footprint in Asia

ADNOC Gas has been actively expanding its customer base, securing multiple LNG agreements ranging from 0.4 MTPA to 1.2 MTPA over terms extending up to 14 years. India, a key growth market, remains a strategic focus as demand for natural gas continues to rise.

Das Island: A Pillar of LNG Excellence

The LNG supplied under this agreement will come from ADNOC Gas' Das Island liquefaction facility, a world-class production hub with a capacity of 6 MTPA. As one of the longest-operating LNG plants globally, Das Island has shipped over 3,500 LNG cargoes worldwide, playing a critical role in securing global energy supplies.

Looking Ahead

With India's LNG demand expected to surge in the coming years, ADNOC Gas is well-positioned to enhance regional energy security while supporting global efforts toward a lower-carbon future. This agreement is another testament to the UAE's growing role in shaping the energy landscape of tomorrow.









ENERGY JOBS



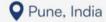






WE ARE HIRING

DESIGNER/ SR. DRAFTSMAN - MECHANICAL #REF: 02



Experience:

5-15 Years

Qualifications:

· Diploma/ ITI (Mechanical)

Job Responsibilities:

- · Study of P&I diagram.
- · Preparation of equipment layout GA drawing.
- · Preparation of Skid GA/frontal piping drawing of filter, softener, MB.
- · Preparation of RO skid Piping, GA, UF Skid Piping GFA, FEDI skid
- · Preparation of Interconnecting Piping layout showing pipe routing, marking supports.
- Checking of Piping isometric drawings and Bill of Material based on
- Checking Pipe supports/frame drawings with bill of material.
- Preparation of civil outline drawings based on GA drawing.
- · Drafting of fabrication drawings involving structural steel and piping.
- · Generating BOM for the above.
- · Hands on experience with Plant 3D.

Skill/ Knowledge Required:

- · P&ID analysis.
- · CAD Software Proficiency.
- · Piping Design.
- Fabrication Drawing Drafting.
- · Bill of Materials (BOM) Generation.
- · Isometric Drawing Review.
- · Plant 3D

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Note: Apply with reference code number











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© QUALIFICATION:

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- **GRADUATION YEAR:** 2024 PASS-OUTS
- (V) BENEFITS: STIPEND, FOOD & **ACCOMMODATION**

WALK-IN DRIVE DETAILS:

Important Dates:

Saturday, 8 Mar 2025 - ITI & Diploma Sunday, 9 Mar 2025 - Engineering Graduates

Time: 09:00 AM - 03:00 PM

Venue: WABAG House, No: 17, 200 Ft Thoraipakkam -Pallavaram Main Road, Sunnambu Kolathur, Chenai - 600117

WHAT TO BRING?

Updated CV | Academic Documents | Aadhaar Card (Photocopy)

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ENERGY JOBS





WE ARE HIRING

Position - Project Formwork Engineer

Required System Knowledge:

- Modular Wall & Column Formwork Systems e.g., PERI, Doka,
- Modular Slab Formwork Systems e.g., Tabla, Skydeck, Quickdeck, etc.
- · Monolithic Aluform
- Jumpform e.g., PERI RCS/ACS, Doka XClimb/Lubeca, etc.
- · Safety Windscreen EPS Hydraulic, Crane Climbing

Key Responsibilities:

- · Plan, deploy, and manage formwork manpower effectively.
- · Track labor productivity and implement corrective actions as required.
- · Conduct onsite toolbox talks and technical briefings for workmen and superiors.
- · Ensure adherence to formwork safety protocols and best

Required Skills and Qualities:

- · Strong communication skills with both workmen and superiors.
- · Ability to conduct technical briefings and safety training sessions onsite.
- · Familiarity with project-specific safety standards and regulations.

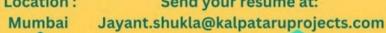
Preferred Knowledge:

- Quality Management System (QMS)
- Safety Risk Assessment and managing Corrective and Preventive Actions (CAPA)
- · Market Rates and relevant IS codes
- · General specifications and Standard Operating Procedures (SOPs)

Oualification: DCE/B.E

Experience: 8 to 10 years

Contact on: Location: Send your resume at: 9004163570



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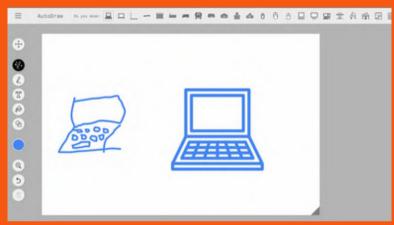
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AUTODRAW

REVOLUTIONIZING OIL & GAS VISUAL COMMUNICATION WITH AI-POWERED **SKETCHING**

The oil and gas industry is embracing artificial intelligence (AI) and digital tools to enhance efficiency and streamline communication. One such game-changing innovation is AutoDraw, an AI-powered drawing tool developed by Google that transforms rough sketches into polished illustrations. This technology is proving to be an invaluable asset in the oil and gas sector, helping engineers, field workers, and safety teams create quick, clear, and professional visuals for operational planning, safety protocols, and technical documentation.



BRINGING AI-POWERED SKETCHING TO **ENERGY OPERATIONS**

AutoDraw combines machine learning with a vast database of professional drawings to convert freehand sketches into refined illustrations instantly. In the oil and gas sector, where visual clarity is essential for engineering schematics, maintenance diagrams, and safety workflows, AutoDraw is making it easier for industry professionals to create precise visuals without requiring advanced design skills.

WHY AUTODRAW IS A GAME-CHANGER FOR OIL & GAS

AutoDraw bridges the gap between technical complexity and visual simplicity, allowing oil and gas professionals to communicate ideas faster and more effectively. The tool's user-friendly interface, AIpowered enhancements, and rapid sketching capabilities make it an essential asset for engineering teams, HSE professionals, and project

With the digital transformation of the energy sector accelerating, tools like AutoDraw are redefining the way oil and gas companies create, share, and interpret critical visual information.

KEY APPLICATIONS OF **AUTODRAW IN OIL & GAS**

Rapid Pipeline and Facility **Sketching**

- Engineers and site planners use AutoDraw to create quick diagrams of pipelines, refineries, and offshore platforms without relying on complex CAD software.
- The tool enables field teams to sketch modifications or layouts on the go, improving real-time communication with design teams.

Visualizing Safety Procedures and Emergency Plans

- AutoDraw helps HSE teams illustrate emergency response plans, evacuation routes, and hazard zones, making safety instructions more intuitive and accessible for workers.
- · AI-enhanced visuals ensure clarity in safety training materials, reducing the risk high-risk of misinterpretation in environments

Streamlining Maintenance and Inspection Reports

- Field inspectors and maintenance crews use AutoDraw to illustrate damaged equipment, leak points, and required repairs in their reports.
- Instead of lengthy descriptions, clear, AIassisted sketches enhance documentation accuracy, ensuring faster approvals for maintenance actions.

Enhancing Training and Technical Documentation

- AutoDraw assists in creating simplified technical drawings for training modules, allowing new employees to grasp complex engineering concepts visually.
- The tool is useful in standard operating procedure (SOP) documentation, enabling teams to illustrate step-by-step processes efficiently.

Visualizing Supply Chain and Logistics Operations

- Supply chain managers can quickly sketch transportation routes, warehouse layouts, and inventory flow diagrams, facilitating smoother logistics planning.
- AI-generated visuals help in presenting supply chain strategies to stakeholders in a clear and engaging manner.





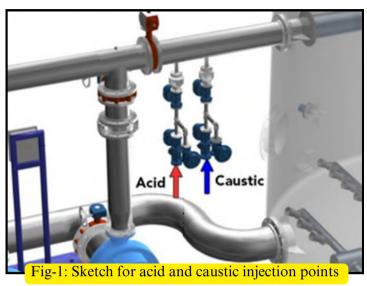




Optimized Design and Inspection Strategies for Injection and **Mixing Points in Process Industries**

Injection and mixing points are critical components in refineries, petrochemical plants, and power generation facilities. These points often experience an accelerated degradation rate compared to the main pipeline due to variations in temperature, pH, phase transitions, and the concentration of corrosive species. To mitigate unexpected failures, industry standards and best practices provide guidelines for designing, monitoring, and inspecting these areas.

Ensuring the integrity of injection and mixing locations requires meticulous attention engineering, proper material selection, and robust operational monitoring. This includes optimizing design configurations, choosing the correct materials,



determining the appropriate placement of isolation valves, and ensuring adherence to operational best practices. Additionally, effective inspection plans must be implemented to prevent deterioration and ensure continued safe operation.

Definitions:

Injection Point: A location where chemicals or process additives are introduced into a process stream. Examples include corrosion inhibitors, desalter demulsifiers, neutralizers, antifoulants, oxygen scavengers, hydrogen scavengers, caustic solutions, and water washes. [1]

Mixing Point: A point where streams of differing composition and/or temperature merge. Due to potential damage mechanisms such as corrosion or erosion, these locations require special design considerations, operational limits, and process monitoring.

Design Considerations for Injection Points

Chemical Injection and Mixing

Injection of corrosive chemicals, such as caustic and sulfuric acid, must be carefully managed to prevent severe localized corrosion. Proper mixing and dilution of injected chemicals are essential to avoid concentrated exposure to hot metal surfaces. Injection systems should be designed to disperse chemicals effectively and prevent localized damage. [4]



Fig-2-a: Sketch for static mixer



Fig-2-b: Sketch for injection quills



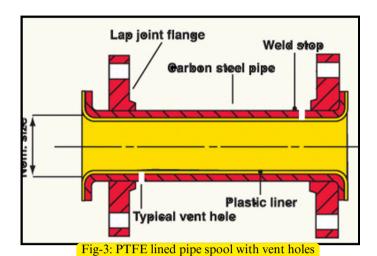






Material Selection for Mixing Zones

Selecting materials for mixing zones requires evaluating potential risks such as local erosion, corrosion-erosion, and turbulenceinduced wear. Depending on the operating environment, high corrosion-resistant alloys or internally lined injection facilities may be necessary. Plastic-lined pipes, when used, should incorporate venting systems to release any trapped annular pressure. Venting is generally unnecessary for liners made from PVDF, PP, ETFE, or PVDC. [5]



Injection Devices and Their Design Considerations

Proper selection of injection devices significantly affects mixing efficiency and operational reliability. Various devices are utilized based on process requirements:

Quills:

- Should discharge co-currently into the center of the receiving stream to enhance dispersion and prevent undiluted chemical contact with pipe walls.
- Design calculations should assess the natural frequency to mitigate potential fatigue failure.
- Beveled-end quills improve dispersion and reduce the risk of localized corrosion or fouling.

Spray Nozzles:

- Recommended for liquid injection into gas streams or applications requiring wall wetting.
- Co-current injection is preferred to achieve uniform distribution.
- Cross-flow injection should be avoided to prevent impingement on pressure boundaries, which can lead to premature failures.

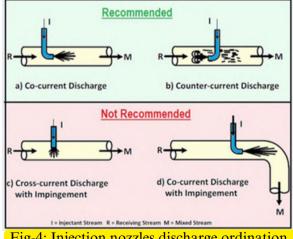


Fig-4: Injection nozzles discharge ordination

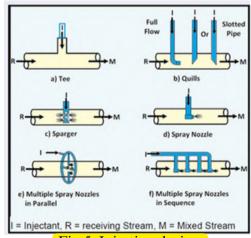


Fig-5: Injection devices









Injection to Vessels and Tanks

When injecting chemicals into vessels or tanks, designs should avoid concentration of corrosive media in localized areas. For example, tank inlets should be positioned to promote proper mixing and dilution upon chemical introduction. Poor design can result in severe corrosion due to the formation of highly concentrated pockets of aggressive chemicals. [3]

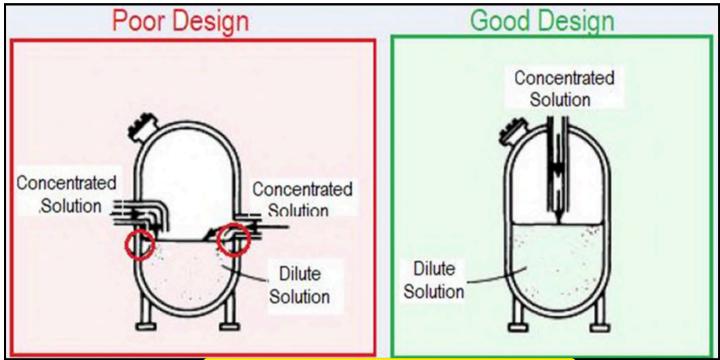


Fig-6: Poor and good practices of injection to vessels

Managing Temperature Differentials

A significant temperature difference between the injected stream and the main process stream can lead to thermal shock and fatigue.

To minimize thermal stress, several design approaches can be implemented:

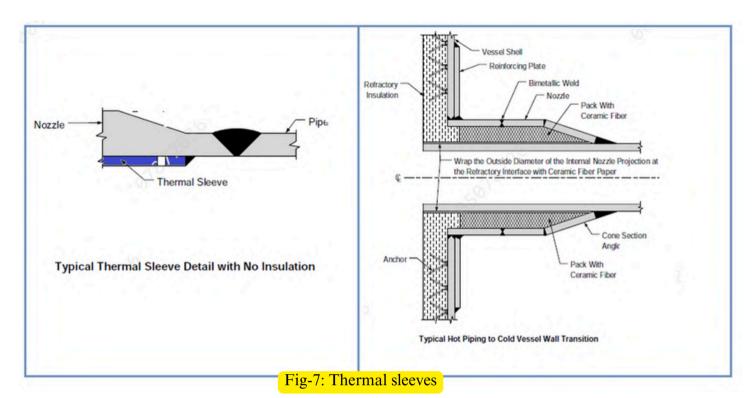
- Thermal sleeves and insulation: Reduce differential temperature effects between injection points and process
- Pre-heating or cooling the injected stream: Helps align temperatures and minimize abrupt thermal expansion or contraction.
- Reduction of mechanical stiffness at junctions: Lowers stress concentrations at mixing points.

An example is an alloy nozzle intersecting a refractory-lined vessel—using a thermal sleeve with insulation minimizes the temperature gradient and associated thermal stresses. [6]









Operational Considerations

Operators must understand the risks associated with improper use of injection points. The following best practices help ensure safe operations:

- For intermittent mainstream flow, the chemical injection must be stopped before stopping the mainstream flow to prevent chemical accumulation.
- Conversely, before starting chemical injection, ensure that the mainstream is flowing.
- Implementing interlocks in the system can automate these processes and reduce operational errors.
- Operators should follow structured checklists and monitoring protocols to ensure adherence to Integrity Operating Windows (IOW) for flow rate, velocity, chemical composition, pH, temperature, and pressure.

Inspection Strategies

Injection and mixing points are prone to accelerated corrosion and require dedicated inspection strategies:

- Treat susceptible injection points as separate inspection circuits requiring frequent assessments. [2]
- Inspections should cover an area extending 300 mm upstream of the injection nozzle and at least 10 pipe diameters downstream to capture corrosion and erosion patterns.
- Design should accommodate accessibility for inspections, such as providing platforms, manways, or removable spools.
- During shutdowns, thorough examinations of quills, nozzles, and all related components should be performed.
- For plastic-lined pipes equipped with vent holes, ensure venting remains unblocked to prevent catastrophic failures due to undetected corrosion.
- If insulated, extend the venting system beyond cladding and include leak checks in periodic inspections.

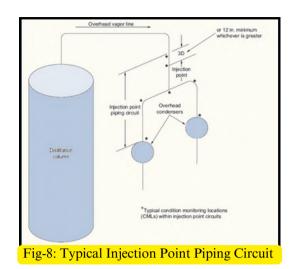






Conclusion

Injection and mixing points play a vital role in the efficiency and safety of process industries but pose inherent risks if not properly designed, monitored, and inspected. Implementing robust design precautions, material selection, and inspection strategies significantly reduces the likelihood of failures. By following industry standards and best practices, facilities can enhance operational safety, minimize corrosion risks, and extend the life of critical process components.



References

- [1] NACE SP0114-2014: Refinery Injection and Process Mix Points
- [2] API 570: Piping Inspection Code: In-service Inspection, Rating, Repair, and Alteration of Piping Systems
- [3] ASM Metals Handbook, Volume 13 Corrosion
- [4] API 571, Damage Mechanisms Affecting Fixed Equipment in the Refining Industry
- [5] ASTM F1545 Standard Specification for Plastic-Lined Ferrous Metal Pipe, Fittings, and Flanges
- [6] API 579, Fittness For Service
- [7] The Many Parts of Injection Points, Marc MCConnel, P.E, Inspectioneering Journal, July 2013

About the author

MR. BAHER ELSHEIKH

Lead Mechanical Engineer - SABIC

Over 23 years of experience in the design, troubleshooting, and fitness-forservice evaluation of pressure equipment and fired heaters. His expertise spans refinery, petrochemical, and fertilizer plants, specializing in static equipment integrity.

Baher is an ASME-authorized instructor and holds multiple industryrecognized certifications, including Certified RBI Professional (API 580), Damage Mechanism Professional (API 571), Certified Reliability Leader (CRL), and Certified Reliability Engineer (CRE).

He is an active contributor to international journals and conferences, publishing multiple technical papers and articles. By the end of 2024, Baher was recognized as the top-ranked industry content creator on LinkedIn in Saudi Arabia.











Brazil Enters the Era of Sensorized Industrial Asset Monitoring

Brazil has fully embraced the era of industrial monitoring asset through Inductosense Technology. This technology measures the wall thickness of pipelines and equipment using sensors that are permanently affixed to assets. These sensors provide highly precise measurements with an accuracy of 0.05 mm, and data collection is performed quickly and effortlessly using HDC or RDC data collectors via WAND technology. Once collected, the measurements are transmitted to our iDART software, allowing comprehensive monitoring and asset thickness loss trend analysis through graphical representations.



With iDART, users can set minimum and alert thickness thresholds, calibrate measurements based on material type, generate reports, calculate corrosion rates, and integrate data with client software. All of this is managed in the cloud, enabling access from anywhere



This technology marks a shift from traditional thickness measurement continuous monitoring and effective asset management. Now, asset lifespan can be more accurately predicted through real-time thickness monitoring. The industry transitioning from outdated, manual field methods note-based to digital processing, ensuring greater accuracy and higher-quality information for decisionmaking.

The technology is rapidly advancing in Brazil, with deployments already in refineries and multiple offshore platforms operating in the pre-salt fields. The forecast anticipates the installation of tens of thousands of sensors in the coming years.

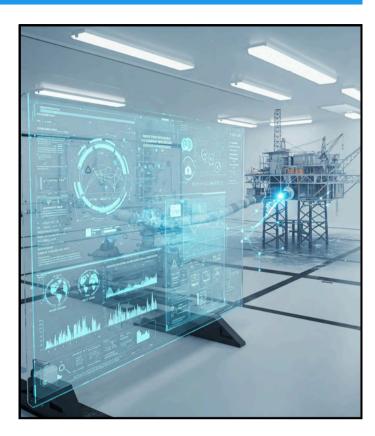






Key Benefits of the Technology

- Enhanced Safety: Significantly reduces professionals' exposure to risks such as working at heights and in confined spaces, minimizing the need for access during thickness measurements.
- Remote Monitoring: Enables real-time asset tracking through iDART software, ensuring no data loss.
- Multi-Industry Application: Suitable for of equipment across various industries, including refineries, offshore platforms, petrochemicals, pulp & paper factories, energy companies, chemical plants, and steel industries.



Cost Reduction:

- a. Can be installed under thermal insulation without requiring removal for thickness measurement.
- b. Allows installation in hard-to-reach areas, minimizing the need for scaffolding or rope access for measurements.
- c. Reduces unplanned maintenance shutdowns.
- d. Enables installation on buried pipelines, eliminating the need for excavation to take thickness measurements.
- Precision: Since the sensors are permanently installed, monitoring is more accurate at the point of interest—something not achievable with traditional methods.

Tecnofink, a 100% Brazilian company, is responsible for introducing this groundbreaking technology into the country. For 31 years, Tecnofink has been dedicated to bringing innovative technologies to the Brazilian industry.

Sustainability & Carbon Reduction

Precise equipment monitoring extends asset lifespan, reducing the need for frequent replacements and prolonging the operational life of entire units, such as exploration plants. This directly contributes to lower carbon emissions, aligning with global best practices to reduce the industrial sector's environmental footprint.









Excellence Integrity Management (EIM) Now Offering Digital Marketing Services for Oil & Gas Vendor Companies

As the oil & gas industry evolves, businesses are increasingly leveraging digital marketing to enhance their brand presence, attract clients, and stay competitive in a rapidly changing market. Excellence Management (EIM)is Integrity now specialized digital marketing services tailored for Oil & Gas Vendor Companies, helping them expand their reach, generate high-quality leads, and establish a strong online presence.



Why Digital Marketing is Essential for Oil & Gas Vendors

Why Digital Marketing is Essential for Oil & Gas Vendors

Traditionally, oil & gas vendor companies relied on trade shows, networking events, and referrals to secure business opportunities. However, in today's digital-first landscape, companies need a strong online presence to effectively engage with industry stakeholders, showcase expertise, and stay ahead of the competition.

How EIM Helps Oil & Gas Vendors Dominate the Digital Space

With deep industry knowledge and expertise in digital marketing, EIM offers a unique advantage for oil & gas vendors looking to stand out in the competitive market.

With EIM's digital marketing solutions, vendors can



















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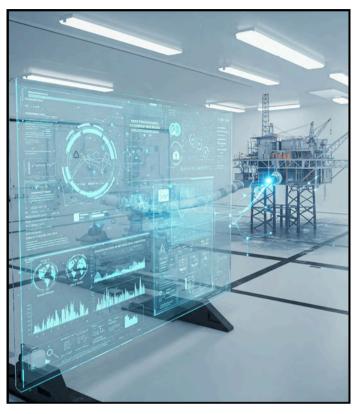


How EIM Helps Oil & Gas Vendors Dominate the Digital

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With deep industry knowledge and expertise in digital marketing, EIM offers a unique advantage for oil & gas vendors looking to stand out in the competitive market. Our data-driven approach ensures:

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- Proven Success in the Oil & Gas Sector Years of experience helping energy companies grow.



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Whether you're an equipment supplier, service provider, or technology vendor in the oil & gas industry, EIM's digital marketing expertise can help you drive business growth and industry recognition.

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- 26+ years of experience in Oil Refinery, Gas Processing, and Petrochemicals.
- · Worked with top companies like OQ8, PDO (SHELL JV), KNPC, Saudi Aramco JV, and Reliance Industries.
- reliability Expert & asset integrity, specializing in RCFA, RCM, and maintenance planning.
- Skilled in advanced tools like GE APM, OSI PI, SAP PM/MM, MAXIMO, and FMEA.

Learning Objectives:

- 1. Learn RCA or 5 Whys Facilitation skill
- 2. Understating Various Risk scenarios
- 3. How to develop Sequence of Events
- 4. Understand Causal Relationship
- 5. Practices 5 whys and RCA Analysis yourself



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03rd March 2025

Fired Heater: Inspection Challenges and Solutions

- Identify common failure mechanisms and inspection challenges in fired heaters.
- Learn advanced inspection techniques to improve efficiency and safety.
- Understand regulatory requirements and best practices for maintenance.



10th March 2025

Above-Ground Storage Tank Inspection and Maintenance

- Explore API 653 standards for tank inspection, repair, and maintenance.
- Learn corrosion assessment techniques and risk-based inspection approaches.
- Understand preventive measures to enhance tank longevity and integrity.



17th March 2025

Risk Based Inspection Implementation

- Discover how digital tools like AI and IoT optimize inspection and maintenance.
- Learn how predictive analytics improves reliability and reduces downtime
- Understand the benefits of digital twins and automated data collection.



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Corrosion in Oil & Gas industry

- Gain insights into material selection for extreme oil & gas environments.
- Learn about corrosion resistance, welding metallurgy, and failure analysis.
- Understand how metallurgical properties impact equipment performance and safety.

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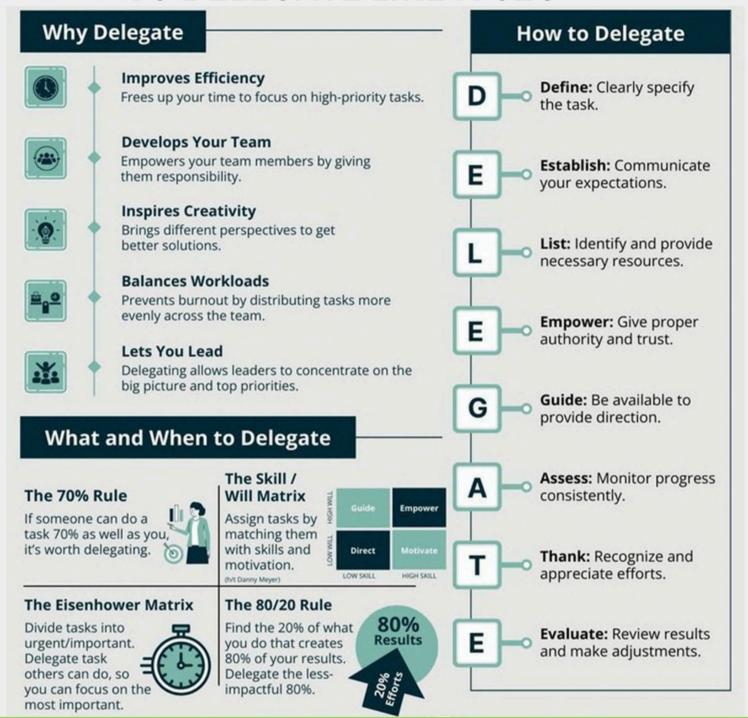
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