

SUPPLY CHAIN MANAGEMENT GAS INDUSTRY

SUPPLY CHAIN MANAGEMENT GAS INDUSTRY IS A CRITICAL COMPONENT IN ENSURING THE EFFICIENT, SAFE, AND COST-EFFECTIVE DELIVERY OF NATURAL GAS FROM EXTRACTION TO END-USERS. THE GAS INDUSTRY FACES UNIQUE CHALLENGES SUCH AS FLUCTUATING DEMAND, COMPLEX LOGISTICS, STRINGENT SAFETY REGULATIONS, AND GEOPOLITICAL FACTORS THAT INFLUENCE SUPPLY ROUTES. EFFECTIVE SUPPLY CHAIN MANAGEMENT IN THIS SECTOR INVOLVES THE COORDINATION OF MULTIPLE STAKEHOLDERS INCLUDING EXPLORATION COMPANIES, PIPELINE OPERATORS, STORAGE FACILITIES, AND DISTRIBUTION NETWORKS. THIS ARTICLE EXPLORES KEY ASPECTS OF SUPPLY CHAIN MANAGEMENT SPECIFIC TO THE GAS INDUSTRY, HIGHLIGHTING STRATEGIES FOR OPTIMIZATION, RISK MANAGEMENT, AND INTEGRATION OF ADVANCED TECHNOLOGIES. ADDITIONALLY, THE DISCUSSION COVERS SUSTAINABILITY EFFORTS AND REGULATORY COMPLIANCE CONSIDERATIONS THAT SHAPE SUPPLY CHAIN DECISIONS. THE FOLLOWING SECTIONS PROVIDE A COMPREHENSIVE OVERVIEW OF SUPPLY CHAIN DYNAMICS WITHIN THE GAS INDUSTRY, AIMING TO ENHANCE UNDERSTANDING OF BEST PRACTICES AND EMERGING TRENDS.

- OVERVIEW OF SUPPLY CHAIN MANAGEMENT IN THE GAS INDUSTRY
- KEY COMPONENTS OF GAS INDUSTRY SUPPLY CHAINS
- CHALLENGES AND RISKS IN GAS SUPPLY CHAIN MANAGEMENT
- TECHNOLOGICAL INNOVATIONS ENHANCING GAS SUPPLY CHAINS
- SUSTAINABILITY AND REGULATORY COMPLIANCE

OVERVIEW OF SUPPLY CHAIN MANAGEMENT IN THE GAS INDUSTRY

SUPPLY CHAIN MANAGEMENT IN THE GAS INDUSTRY ENCOMPASSES THE PLANNING, EXECUTION, AND MONITORING OF PROCESSES INVOLVED IN THE PRODUCTION, TRANSPORTATION, STORAGE, AND DISTRIBUTION OF NATURAL GAS. IT AIMS TO STREAMLINE OPERATIONS WHILE MAINTAINING SAFETY AND RELIABILITY ACROSS THE ENTIRE VALUE CHAIN. THE GAS SUPPLY CHAIN TYPICALLY INVOLVES UPSTREAM EXPLORATION, MIDSTREAM TRANSPORTATION AND STORAGE, AND DOWNSTREAM DISTRIBUTION TO CONSUMERS AND INDUSTRIES. EFFECTIVE SUPPLY CHAIN MANAGEMENT ENSURES THAT NATURAL GAS IS DELIVERED ON TIME, AT THE RIGHT QUALITY, AND AT OPTIMAL COST, WHILE ADAPTING TO MARKET VOLATILITY AND GEOPOLITICAL INFLUENCES.

THE IMPORTANCE OF INTEGRATED SUPPLY CHAINS

INTEGRATION ACROSS DIFFERENT SEGMENTS OF THE GAS INDUSTRY SUPPLY CHAIN IS ESSENTIAL FOR COORDINATION AND EFFICIENCY. BY LINKING UPSTREAM, MIDSTREAM, AND DOWNSTREAM OPERATIONS THROUGH INTEGRATED SYSTEMS, COMPANIES CAN REDUCE REDUNDANCIES, IMPROVE INVENTORY MANAGEMENT, AND ENHANCE RESPONSIVENESS TO MARKET CHANGES. THIS INTEGRATION SUPPORTS BETTER DEMAND FORECASTING, CAPACITY PLANNING, AND RISK MITIGATION STRATEGIES.

SUPPLY CHAIN OBJECTIVES SPECIFIC TO THE GAS INDUSTRY

THE PRIMARY OBJECTIVES INCLUDE MINIMIZING OPERATIONAL COSTS, ENSURING SAFETY COMPLIANCE, MAINTAINING SUPPLY SECURITY, AND REDUCING ENVIRONMENTAL IMPACT. ACHIEVING THESE GOALS REQUIRES ROBUST SUPPLY CHAIN STRATEGIES TAILORED TO THE UNIQUE CHARACTERISTICS OF NATURAL GAS, SUCH AS ITS VOLATILE PRICING, STORAGE REQUIREMENTS, AND TRANSPORTATION CHALLENGES.

Key Components of Gas Industry Supply Chains

The gas industry supply chain consists of several critical components that work together to facilitate the movement of gas from source to end-user. Understanding these components is essential for managing the supply chain effectively.

Upstream Operations

Upstream activities involve exploration and production of natural gas. This includes locating gas reserves, drilling wells, and extracting raw gas. Effective supply chain management at this stage focuses on optimizing extraction processes and coordinating with midstream operators for timely handoff.

Midstream Transportation and Storage

Midstream operations cover the transportation of natural gas via pipelines, liquefied natural gas (LNG) carriers, and other modes, as well as storage in underground facilities or LNG terminals. This stage is crucial for balancing supply and demand, managing inventory, and ensuring gas quality during transit.

Downstream Distribution

Downstream activities involve processing, marketing, and delivering natural gas to residential, commercial, and industrial consumers. Managing distribution networks requires precise demand forecasting, maintenance of pipeline infrastructure, and compliance with regulatory standards.

Supporting Infrastructure and Services

Ancillary services such as maintenance, safety monitoring, and emergency response are vital components of the supply chain. These services ensure operational continuity and mitigate risks associated with natural gas handling and transportation.

Challenges and Risks in Gas Supply Chain Management

Managing the supply chain in the gas industry presents several challenges and risks that can impact efficiency and safety. Recognizing and addressing these issues are fundamental to sustaining reliable gas supplies.

Market Volatility and Demand Fluctuations

Natural gas prices are subject to significant fluctuations due to geopolitical tensions, seasonal demand changes, and shifts in energy policies. Supply chain managers must develop flexible strategies to adapt to these market dynamics and avoid supply disruptions.

Logistical Complexities

The transportation of natural gas involves complex logistics including pipeline management, LNG shipping, and storage optimization. Delays or failures in any of these areas can lead to supply shortages or increased costs.

REGULATORY AND SAFETY COMPLIANCE

STRICT REGULATIONS GOVERN THE HANDLING AND TRANSPORTATION OF NATURAL GAS TO ENSURE SAFETY AND ENVIRONMENTAL PROTECTION. COMPLIANCE WITH THESE RULES REQUIRES CONTINUOUS MONITORING AND INVESTMENT IN SAFETY TECHNOLOGIES.

ENVIRONMENTAL AND GEOPOLITICAL RISKS

THE GAS SUPPLY CHAIN IS VULNERABLE TO ENVIRONMENTAL HAZARDS SUCH AS NATURAL DISASTERS AND GEOPOLITICAL EVENTS LIKE TRADE RESTRICTIONS OR CONFLICTS. RISK MANAGEMENT PLANS ARE CRITICAL FOR MITIGATING THE IMPACT OF THESE EXTERNAL FACTORS.

TECHNOLOGICAL INNOVATIONS ENHANCING GAS SUPPLY CHAINS

ADVANCES IN TECHNOLOGY ARE TRANSFORMING SUPPLY CHAIN MANAGEMENT PRACTICES IN THE GAS INDUSTRY, ENABLING GREATER EFFICIENCY, TRANSPARENCY, AND RISK MITIGATION.

DIGITALIZATION AND DATA ANALYTICS

DIGITAL TOOLS SUCH AS IoT SENSORS, REAL-TIME MONITORING SYSTEMS, AND PREDICTIVE ANALYTICS ENHANCE VISIBILITY ACROSS THE SUPPLY CHAIN. THESE TECHNOLOGIES FACILITATE PROACTIVE MAINTENANCE, IMPROVED DEMAND FORECASTING, AND OPTIMIZED ROUTING.

AUTOMATION AND ROBOTICS

AUTOMATION IN PIPELINE INSPECTION, DRILLING OPERATIONS, AND WAREHOUSE MANAGEMENT REDUCES HUMAN ERROR AND INCREASES OPERATIONAL SPEED. ROBOTICS TECHNOLOGIES ALSO IMPROVE SAFETY BY PERFORMING HAZARDOUS TASKS IN REMOTE OR DANGEROUS LOCATIONS.

BLOCKCHAIN FOR SUPPLY CHAIN TRANSPARENCY

BLOCKCHAIN TECHNOLOGY OFFERS SECURE AND TRANSPARENT TRACKING OF GAS TRANSACTIONS AND MOVEMENTS. THIS ENHANCES TRUST AMONG STAKEHOLDERS AND SIMPLIFIES COMPLIANCE DOCUMENTATION.

ADVANCED STORAGE SOLUTIONS

INNOVATIVE STORAGE TECHNOLOGIES, INCLUDING HIGH-CAPACITY LNG TANKS AND UNDERGROUND RESERVOIRS, IMPROVE INVENTORY MANAGEMENT AND SUPPLY FLEXIBILITY. THESE SOLUTIONS HELP BUFFER AGAINST DEMAND SPIKES AND SUPPLY INTERRUPTIONS.

SUSTAINABILITY AND REGULATORY COMPLIANCE

THE GAS INDUSTRY SUPPLY CHAIN IS INCREASINGLY FOCUSED ON SUSTAINABILITY AND ADHERENCE TO EVOLVING REGULATORY FRAMEWORKS. THESE CONSIDERATIONS INFLUENCE OPERATIONAL DECISIONS AND INVESTMENT PRIORITIES.

ENVIRONMENTAL IMPACT REDUCTION

EFFORTS TO REDUCE METHANE EMISSIONS, IMPROVE ENERGY EFFICIENCY, AND INCORPORATE RENEWABLE ENERGY SOURCES INTO OPERATIONS ARE GAINING PROMINENCE. SUSTAINABLE SUPPLY CHAIN PRACTICES ALSO INVOLVE MINIMIZING WASTE AND OPTIMIZING LOGISTICS TO REDUCE CARBON FOOTPRINTS.

COMPLIANCE WITH INTERNATIONAL STANDARDS

REGULATORY BODIES IMPOSE STANDARDS ON SAFETY, ENVIRONMENTAL PROTECTION, AND QUALITY ASSURANCE. SUPPLY CHAIN MANAGERS MUST ENSURE THAT ALL SEGMENTS COMPLY WITH THESE REGULATIONS TO AVOID PENALTIES AND MAINTAIN MARKET ACCESS.

CORPORATE SOCIAL RESPONSIBILITY (CSR)

GAS COMPANIES ARE INCREASINGLY INTEGRATING CSR INITIATIVES INTO THEIR SUPPLY CHAIN STRATEGIES, FOCUSING ON COMMUNITY ENGAGEMENT, ETHICAL SOURCING, AND TRANSPARENT REPORTING.

FUTURE TRENDS IN SUSTAINABLE SUPPLY CHAIN MANAGEMENT

EMERGING TRENDS INCLUDE THE ADOPTION OF GREEN HYDROGEN, CIRCULAR ECONOMY PRINCIPLES, AND COLLABORATION ACROSS INDUSTRIES TO ACHIEVE NET-ZERO EMISSIONS GOALS. THESE TRENDS WILL CONTINUE TO SHAPE SUPPLY CHAIN MANAGEMENT PRACTICES IN THE GAS SECTOR.

- UPSTREAM OPERATIONS OPTIMIZATION
- MIDSTREAM LOGISTICS AND STORAGE ADVANCEMENTS
- DOWNSTREAM DISTRIBUTION EFFICIENCY
- RISK MANAGEMENT FRAMEWORKS
- TECHNOLOGICAL INTEGRATION AND INNOVATION
- SUSTAINABILITY AND REGULATORY ADHERENCE

FREQUENTLY ASKED QUESTIONS

WHAT ARE THE KEY CHALLENGES IN SUPPLY CHAIN MANAGEMENT FOR THE GAS INDUSTRY?

KEY CHALLENGES INCLUDE FLUCTUATING DEMAND AND PRICES, REGULATORY COMPLIANCE, INFRASTRUCTURE LIMITATIONS, GEOPOLITICAL RISKS, AND ENSURING SAFETY AND ENVIRONMENTAL STANDARDS THROUGHOUT THE SUPPLY CHAIN.

HOW DOES DIGITAL TRANSFORMATION IMPACT SUPPLY CHAIN MANAGEMENT IN THE GAS INDUSTRY?

DIGITAL TRANSFORMATION ENHANCES VISIBILITY, IMPROVES DATA ACCURACY, ENABLES PREDICTIVE MAINTENANCE, OPTIMIZES

INVENTORY MANAGEMENT, AND FACILITATES REAL-TIME DECISION-MAKING, THEREBY INCREASING EFFICIENCY AND REDUCING COSTS.

WHAT ROLE DOES LOGISTICS PLAY IN THE GAS INDUSTRY'S SUPPLY CHAIN MANAGEMENT?

LOGISTICS IS CRITICAL FOR TRANSPORTING GAS SAFELY AND EFFICIENTLY FROM EXTRACTION SITES TO PROCESSING FACILITIES AND END CONSUMERS, INVOLVING PIPELINES, SHIPPING, STORAGE, AND DISTRIBUTION NETWORKS.

HOW DO GEOPOLITICAL FACTORS INFLUENCE SUPPLY CHAIN MANAGEMENT IN THE GAS INDUSTRY?

GEOPOLITICAL FACTORS CAN DISRUPT SUPPLY ROUTES, AFFECT PRICING, IMPOSE SANCTIONS, AND CREATE UNCERTAINTY, REQUIRING COMPANIES TO DIVERSIFY SUPPLY SOURCES AND DEVELOP RISK MITIGATION STRATEGIES.

WHAT TECHNOLOGIES ARE CURRENTLY TRANSFORMING SUPPLY CHAIN MANAGEMENT IN THE GAS SECTOR?

TECHNOLOGIES SUCH AS IoT, BLOCKCHAIN, AI, ADVANCED ANALYTICS, AND AUTOMATION ARE TRANSFORMING SUPPLY CHAIN PROCESSES BY INCREASING TRANSPARENCY, ENHANCING TRACKING, IMPROVING FORECASTING, AND REDUCING OPERATIONAL RISKS.

HOW IMPORTANT IS SUSTAINABILITY IN SUPPLY CHAIN MANAGEMENT FOR THE GAS INDUSTRY?

SUSTAINABILITY IS INCREASINGLY IMPORTANT, WITH COMPANIES FOCUSING ON REDUCING CARBON EMISSIONS, MINIMIZING ENVIRONMENTAL IMPACT, ADOPTING CLEANER TECHNOLOGIES, AND COMPLYING WITH ENVIRONMENTAL REGULATIONS THROUGHOUT THE SUPPLY CHAIN.

WHAT STRATEGIES CAN GAS COMPANIES USE TO IMPROVE SUPPLY CHAIN RESILIENCE?

STRATEGIES INCLUDE DIVERSIFYING SUPPLIERS, INVESTING IN DIGITAL TOOLS FOR REAL-TIME MONITORING, MAINTAINING BUFFER INVENTORIES, CONDUCTING RISK ASSESSMENTS, AND DEVELOPING CONTINGENCY PLANS FOR DISRUPTIONS.

HOW DOES DEMAND FORECASTING AFFECT SUPPLY CHAIN MANAGEMENT IN THE GAS INDUSTRY?

ACCURATE DEMAND FORECASTING ENABLES BETTER INVENTORY MANAGEMENT, REDUCES WASTAGE, ENSURES TIMELY DELIVERY, AND HELPS OPTIMIZE PRODUCTION SCHEDULES, THEREBY IMPROVING OVERALL SUPPLY CHAIN EFFICIENCY.

WHAT IS THE IMPACT OF REGULATORY COMPLIANCE ON SUPPLY CHAIN MANAGEMENT IN THE GAS INDUSTRY?

REGULATORY COMPLIANCE ENSURES SAFETY, ENVIRONMENTAL PROTECTION, AND LEGAL ADHERENCE, WHICH AFFECTS SUPPLY CHAIN OPERATIONS BY IMPOSING STANDARDS ON TRANSPORTATION, STORAGE, EMISSIONS, AND REPORTING REQUIREMENTS.

ADDITIONAL RESOURCES

1. SUPPLY CHAIN MANAGEMENT IN THE OIL AND GAS INDUSTRY

THIS BOOK OFFERS AN IN-DEPTH LOOK AT THE UNIQUE CHALLENGES AND STRATEGIES INVOLVED IN MANAGING SUPPLY CHAINS WITHIN THE OIL AND GAS SECTOR. IT COVERS PROCUREMENT, LOGISTICS, AND RISK MANAGEMENT TAILORED TO UPSTREAM, MIDSTREAM, AND DOWNSTREAM OPERATIONS. THE TEXT IS ESSENTIAL FOR PROFESSIONALS SEEKING TO OPTIMIZE EFFICIENCY AND REDUCE COSTS IN THIS COMPLEX INDUSTRY.

2. STRATEGIC SUPPLY CHAIN PLANNING FOR THE ENERGY SECTOR

FOCUSED ON LONG-TERM SUPPLY CHAIN STRATEGIES, THIS BOOK ADDRESSES HOW ENERGY COMPANIES, PARTICULARLY THOSE IN GAS AND OIL, CAN PLAN FOR VOLATILITY AND REGULATORY CHANGES. IT EMPHASIZES DEMAND FORECASTING, INVENTORY MANAGEMENT, AND SUSTAINABLE SOURCING. READERS GAIN INSIGHTS INTO ALIGNING SUPPLY CHAIN OBJECTIVES WITH CORPORATE GOALS.

3. LOGISTICS AND DISTRIBUTION IN THE GAS INDUSTRY

THIS TITLE CONCENTRATES ON THE LOGISTICAL ASPECTS OF THE GAS SUPPLY CHAIN, INCLUDING STORAGE, TRANSPORTATION, AND DISTRIBUTION NETWORKS. IT HIGHLIGHTS BEST PRACTICES FOR ENSURING SAFETY, COMPLIANCE, AND TIMELY DELIVERY OF GAS PRODUCTS. THE BOOK IS A PRACTICAL GUIDE FOR LOGISTICS MANAGERS AND OPERATIONAL PLANNERS.

4. RISK MANAGEMENT AND RESILIENCE IN OIL & GAS SUPPLY CHAINS

EXPLORING THE VULNERABILITIES INHERENT IN OIL AND GAS SUPPLY CHAINS, THIS BOOK PROVIDES FRAMEWORKS FOR IDENTIFYING, ASSESSING, AND MITIGATING RISKS. IT DISCUSSES GEOPOLITICAL FACTORS, NATURAL DISASTERS, AND MARKET FLUCTUATIONS. THE CONTENT IS CRUCIAL FOR SUPPLY CHAIN PROFESSIONALS AIMING TO BUILD MORE RESILIENT OPERATIONS.

5. PROCUREMENT STRATEGIES FOR THE GAS INDUSTRY

THIS BOOK DELVES INTO PROCUREMENT PROCESSES SPECIFIC TO THE GAS SECTOR, INCLUDING SUPPLIER SELECTION, CONTRACT NEGOTIATION, AND COST CONTROL. IT OFFERS CASE STUDIES THAT ILLUSTRATE SUCCESSFUL PROCUREMENT PRACTICES. THE TEXT IS USEFUL FOR PROCUREMENT OFFICERS SEEKING TO ENHANCE VALUE AND EFFICIENCY.

6. TECHNOLOGY INNOVATIONS IN OIL AND GAS SUPPLY CHAINS

HIGHLIGHTING THE ROLE OF EMERGING TECHNOLOGIES, THIS BOOK COVERS DIGITAL TRANSFORMATION, AUTOMATION, AND DATA ANALYTICS IN SUPPLY CHAIN MANAGEMENT. IT EXPLAINS HOW THESE INNOVATIONS IMPROVE TRANSPARENCY, REDUCE COSTS, AND INCREASE AGILITY. INDUSTRY PROFESSIONALS WILL FIND PRACTICAL EXAMPLES OF TECHNOLOGY IMPLEMENTATION.

7. SUSTAINABLE SUPPLY CHAIN PRACTICES IN THE GAS INDUSTRY

THIS BOOK ADDRESSES THE GROWING IMPORTANCE OF SUSTAINABILITY IN SUPPLY CHAIN OPERATIONS WITHIN THE GAS SECTOR. TOPICS INCLUDE REDUCING CARBON FOOTPRINTS, ETHICAL SOURCING, AND REGULATORY COMPLIANCE. IT PROVIDES STRATEGIES FOR INTEGRATING ENVIRONMENTAL AND SOCIAL GOVERNANCE INTO SUPPLY CHAIN DECISION-MAKING.

8. INVENTORY MANAGEMENT AND OPTIMIZATION IN OIL & GAS

FOCUSING ON INVENTORY CONTROL, THIS BOOK EXPLAINS TECHNIQUES TO BALANCE SUPPLY AND DEMAND EFFECTIVELY IN THE OIL AND GAS INDUSTRY. IT COVERS METHODS SUCH AS JUST-IN-TIME, SAFETY STOCK CALCULATION, AND DEMAND VARIABILITY ANALYSIS. THE BOOK HELPS SUPPLY CHAIN MANAGERS MINIMIZE COSTS WHILE MAINTAINING OPERATIONAL READINESS.

9. GLOBAL SUPPLY CHAIN CHALLENGES IN THE ENERGY INDUSTRY

THIS COMPREHENSIVE TEXT EXAMINES THE COMPLEXITIES OF MANAGING GLOBAL SUPPLY CHAINS FOR OIL AND GAS COMPANIES. IT DISCUSSES INTERNATIONAL TRADE REGULATIONS, CROSS-BORDER LOGISTICS, AND CULTURAL CONSIDERATIONS. THE BOOK EQUIPS READERS WITH STRATEGIES TO NAVIGATE GLOBAL MARKETS AND IMPROVE SUPPLY CHAIN COORDINATION.

Supply Chain Management Gas Industry

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supply chain management gas industry: Improving Supply Chains in the Oil and Gas Industry Sanchay Roy, Stewart Dunbar, 2022-05-27 This book analyses and proposes solutions to one of the core challenges faced in the Maintenance, Repair and Operations (MRO) supply chains in the oil and gas industry, a field that is currently impacted by low oil prices, emerging technologies

and a societal transition to cleaner energies. It describes the end-to-end nature of the oil and gas supply chain, and challenges paradigms and accepted ways of working within the industry – such as wastes driven by broken interfaces, naivete regarding supply chains, and the practice that considers re-organisation to be the answer to these challenges – and identifies opportunities to shift this paradigm towards reliability and value. Moreover, the book shares the authors' front-line experience and encourages readers to consider deploying the solutions presented in their own contexts. The insights from the book's 12 modules are based on personal experiences and are industry-generic, allowing them to be transferred to other MRO supply chains. Readers are encouraged to use this book as a reference for their own supply chain transformations. The book is primarily intended for practitioners, including chief operating officers, chief financial officers, chief supply chain officers, engineers and heads of procurement, purchasing, operations, and materials management.

supply chain management gas industry: Dynamic Supply Chain Management in Oil and Gas Industry Shatina Saad, 2013

supply chain management gas industry: Optimal Supply Chain Management in Oil, Gas, and Power Generation David Jacoby, 2012 David Jacoby's highly regarded book addresses the specific supply chain management characteristics and needs of oil, gas, and power companies, and contains a wealth of industry-specific examples. Jacoby provides a toolbox for large-scale capital expenditure decision making and for transforming capital and operation expenditures to exert a visible financial impact in oil, gas, and power companies. The supply chain risk management decision analysis tools offered by Jacoby will help operators increase economic value added while enhancing safety and stewardship of the environment. This book is an invaluable reference resource for chief operating officers; chief financial officers; engineers; vice presidents of supply chain, operations, or production; and directors and managers of procurement, purchasing, operations, or materials management.

supply chain management gas industry: Supply Chain Management Bowon Kim, 2018-02-22 This edition of Supply Chain Management (SCM) was revised to appeal to a wider readership besides students taking SCM courses. Global supply chain managers and researchers in the fields of SCM and operations strategy would find it a useful reference. Rather than discuss the technical issues of SCM, the book focuses on the strategic perspectives and approaches of SCM. Students learn to identify SCM issues from the top management's perspective. The book also presents real-world managerial problems and incorporates case studies for connecting theories with practices. By exploring the fundamental issues of SCM, managers acquire a new learning perspective that enables them to solve problems in a more sustainable and innovative manner rather than use short-term, ad hoc solutions. Finally, it distils various theoretical concepts to allow researchers to observe real SCM issues in a managerial context which allows for practical, meaningful and impactful research to be carried out.

supply chain management gas industry: Understanding Data Analytics and Predictive Modelling in the Oil and Gas Industry Kingshuk Srivastava, Thipendra P Singh, Manas Ranjan Pradhan, Vinit Kumar Gunjan, 2023-11-20 This book covers aspects of data science and predictive analytics used in the oil and gas industry by looking into the challenges of data processing and data modelling unique to this industry. It includes upstream management, intelligent/digital wells, value chain integration, crude basket forecasting, and so forth. It further discusses theoretical, methodological, well-established, and validated empirical work dealing with various related topics. Special focus has been given to experimental topics with various case studies. Features: Provides an understanding of the basics of IT technologies applied in the oil and gas sector Includes deep comparison between different artificial intelligence techniques Analyzes different simulators in the oil and gas sector as well as discussion of AI applications Focuses on in-depth experimental and applied topics Details different case studies for upstream and downstream This book is aimed at professionals and graduate students in petroleum engineering, upstream industry, data analytics, and digital transformation process in oil and gas.

supply chain management gas industry: New Age Technology in Supply Chain

Management Mohammed Majeed, 2025-05-09 This new book details the impact of IT and digital transformation tools on supply chain management and how these smart tools can be the keys to the success of organizations. The technologies covered include big data, robotics, artificial intelligence, machine learning, blockchain, and the Internet of Things. The book first provides an introduction to IT and supply chain management and explains how digital tools can positively affect procurement in different types of industries and markets, covering their importance, methods, and requirements for efficient and effective implementation in workplaces and businesses. The book covers topics such as the application of artificial intelligence in SCM in the hospitality and hotel sector as well as in the oil and gas industry. The volume presents a global perspective on procurement and supply chain management using detailed real-world examples to bring the subject matter to life. It will be a valuable resource for industry executives and researchers as well as for faculty and students studying this area.

supply chain management gas industry: Sustainability Management in the Oil and Gas Industry Joshua Yindenaba Abor, Amin Karimu, 2023-06-07 The oil and gas industry is a complex sector with significant reach in terms of providing the energy needs of the global economy and the security, environmental and development consequences thereof. In particular, the sector is extremely important for the economic growth of emerging markets and developing countries. Furthermore, the life span of oil and gas resources is finite, with high health and safety risks and substantial environmental costs that require careful management and sustainability practices to ensure optimal extraction and utilisation of these resources. This book examines the challenges and opportunities in the oil and gas industry, in the context of emerging markets and developing economies. It provides comprehensive coverage of the management and sustainability practices of the sector, the environmental impact and sustainability of resources as well as the businesses that operate in the sector across the entire value chain. It addresses the current discourse on topics such as the Sustainable Development Goals, the Green Economy, the Paris Agreement and Glasgow Climate Pact and concludes with a chapter on the future of the oil and gas industry. The discussions around energy and energy transitions in particular continue to gain momentum and the book provides a wide-reaching and up-to-date overview of the industry. The book introduces readers to the concepts and formal models of analysis in the oil and gas sector and will serve as a useful resource for students, scholars and researchers in operations, marketing, procurement and supply chain management, project management, health and safety management, environmental economics, natural resource economics, development finance, and development studies. Researchers and practitioners working in these areas will also find the book a useful reference material.

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supply chain management gas industry: Emerging Frontiers in Operations and Supply Chain Management B. Vipin, C. Rajendran, Ganesh Janakiraman, Deepu Philip, 2021-09-15 This edited book addresses the challenges in managing the operations and supply chain of organizations in the era of internet of things and Industry 4.0. It presents cutting edge research on real world operations related problems, in-depth analyses, and relevant managerial implications. Wide variety of solution approaches such as quantitative, quantitative, and simulations are presented in the context of managing the operations and supply chains. Consisting of selected papers from the XXIII Annual International Conference of Society of Operations Management, this volume is part of a two volume series with the other book consisting of chapters on quantitative decision making. This edited book covers various quantitative models on operations and supply chain management such as inventory optimization, machine learning-operations research integrated model for healthcare systems, game-theoretic analysis of review strategies in truthful information sharing, design of contracts in supply chains, supply chain optimization, inventory routing, and shop floor scheduling. In addition to the quantitative models, several innovative heuristics are proposed for different problems. This book explores qualitative models on improving the performance of small and medium enterprises and petroleum industries and a simulation model for staff allocation in the information technology industry. Finally, this book provides review articles on vaccine supply chains and behavioral operations management. The book throws light on the emerging trends in the use of analytics, optimization, and simulation tools and empirical analysis to improve the performance of operations and supply chains of organizations. It will serve as an essential resource for practitioners, students, faculty members and scholars in operations management and related areas to gain knowledge and pursue high quality research on developments in areas such as managing the resource management and the solution methodology---innovative tools employed in addressing the real world problems and the different optimization techniques.

supply chain management gas industry: Cases on Supply Chain Management and Lessons Learned From COVID-19 Lopes, Ana Paula, 2022-01-07 In recent years, due to the increasingly aggressive market competition, it is essential to evaluate the role of logistics and supply chain management skills and applications for the success of any organization or business. The COVID-19 pandemic revealed the fragility of the sustainability of economic organization, production, and supply chains globally. Cases on Supply Chain Management and Lessons Learned From COVID-19 collects compelling case studies, theoretical and empirical research, experiences, and applications on numerous aspects of logistics and supply chain management. It not only focuses on industry and digital transformation and the critical nature of organizational agility, but also presents different methods, techniques, models, and competitive advantage prospects, providing an extremely relevant and current view of the subject matter. Covering topics such as green supply chain management, organizational performance, and supply chain disruptions, this book is the ideal reference source for managers, supply chain specialists, entrepreneurs, business professionals, consultants, researchers, academicians, educators, and students.

supply chain management gas industry: Handbook for Supply Chain Risk Management Omera Khan, George A. Zsidisin, 2012 "This book provides a valuable resource for all those who seek to understand the sources of supply chain risk and provides powerful insights into how that risk might be mitigated." — Martin Christopher, Emeritus Professor of Marketing & Logistics, Cranfield School of Management, UK "This handbook is perfectly balanced with academic theory and real-world best practices making it a useful resource for both supply chain practitioners and students of the trade." — Sean S. Murphy, President and CEO, Lootok "This book provides practitioners and students with an overview of good supply chain risk management practices, nicely illustrated with a diverse set of case examples." — Stephan M. Wagner, Ph.D., Professor and Chair of Logistics Management, Swiss Federal Institute of Technology Zurich (ETH Zurich) Recent business trends, and practices, coupled with unpredictable external events have made many firms much more vulnerable to supply chain risk and disruptions than in the past. The Handbook for Supply Chain Risk Management offers the first comprehensive collection of diverse practices executives and

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