

# Oil Storage: Global Markets Through 2023

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## **Abstracts**

## **REPORT SCOPE:**

Chapter 1 presents the introduction. The study goal and objectives are identified and the reasons for doing the study are presented. It also provides the contribution of the study and for whom, the scope and format, methodology and intended audience. The credentials of the analyst are presented and the related BCC Research reports listed.

Chapter 2 presents the summary and highlights of the report, including a summary table and figure which present some key findings from the study.

Chapter 3 presents an overview of the oil storage industry. The overview puts the global oil storage in its proper context to generate an estimate that puts global crude and products stocks somewhere in the region of 9-10 billion barrels, and presents a brief history of the industry.

Chapter 4 presents the major trends that are impacting the oil storage market, including a description of the importance of the oil storage infrastructure in relation to the overall global energy economy.

Chapter 5 quantifies the demand for oil storage by type, including economic grouping, type of reserve, stock, market player, location in the infrastructure chain, geographic region and type of cluster. These are each quantified with global and regional forecasts made up to 2023.

Chapter 6 quantifies the demand for oil storage by product, including crude oil and refined oil, gravity and distillation fraction. These products are each quantified with global forecasts made up to 2023.



Chapter 7 presents the demand for oil storage by technology, covering a detailed analysis of the containment systems, including tank storage, cavern storage and on-water storage. It assesses and evaluates the containment technology by type with forecast to 2023. The technologically leading countries are assessed based on key technology areas.

Chapter 8 presents the demand for oil storage by end-use application, such as transport, industry, petrochemicals, residential/commercial/agriculture, electricity generation; as well as the management of volatility and price spikes in seasonal balancing, emergency, and security of supply. These are quantified with global forecasts made to 2023.

Chapter 9 analyzes the international scene and quantifies the global oil storage by economic grouping, broken down into geographic regions/countries for both commercial and strategic reserves.

Chapter 10 analyzes the structure of the storage industry, including the driving forces of the industry. Important strategies for staying competitive and important shifts in the industry are assessed. Trade practices of the industry and business, and the impact of storage on the petroleum and power industries are discussed. Concentration factors, company results and earnings, and changes are presented. Other aspects covered in this section include competition and market segmentation/fragmentation.

Chapter 11 presents and discusses the government environmental/energy regulation scene as it applies to the oil storage infrastructure and business, as well as the agencies involved, including industry compliance and quantification of economic effects, as the case may be.

Chapter 12 presents company profiles of companies involved in the oil storage infrastructure and business, with highlights of their major activities in the oil storage business, including the company name, address and telephone number.

## **REPORT INCLUDES:**

119 data tables and 30 additional tables

An overview of the global market for oil storage

Analyses of global market trends, with data from 2017 to 2018, and projections



of compound annual growth rates (CAGRs) through 2023

Identification of applications of oil storage in petrochemicals, petroleum refining, residential and electric generation industry

Coverage of the products such as crude oil, natural gas liquids (NGLs), ethane/LPG, naphtha, gasoline, gasoil/diesel and jet/kerosene

Discussion of the advantages and disadvantages of oil storage and commercialization issues and opportunities of the industry

Detailed profiles of major players in the industry, including Anadarko Petroleum Corp., Exxon Mobil Corp., General Electric Co., Kuwait Petroleum Corp., Oil and Natural Gas Corp. Ltd., Petrochina, Royal Dutch Shell Plc and Tetra Technologies Inc.



## **Contents**

## **CHAPTER 1 INTRODUCTION**

Study Goals and Objectives

Reasons for Doing This Study

Scope of Report

Information Sources

Contribution of the Study and for Whom

Methodology

Regional Breakdown

Analyst's Credentials

**BCC Custom Research** 

Related BCC Research Reports

## **CHAPTER 2 SUMMARY AND HIGHLIGHTS**

## **CHAPTER 3 OVERVIEW**

Putting the Global Oil Storage Market in Its Proper Context

Demand for Global Commercial Oil Storage

Demand for Global Strategic/Emergency Oil Storage

The Principal Need for Oil Storage

Overview of the Importance of Oil Storage Along the Oil Industry Supply Chain

Overview of Oil Distribution, Uses and Environmental Impact

Overview of Volume and Value of Global Oil Storage

Overview of the Value of Oil Storage and as a Percentage of the Dollar Value of Global

Crude Oil and Global Refined Oil Trade

Global Imports of Crude Oil

Global Exports of Crude Oil

Global Exports of Refined Oil

Overview of Customers and Markets in Oil Storage Along the Supply Chain

Oil Producers

**Pipelines** 

**Tankers** 

Overview of the Optimal Storage Location and Need for Oil Storage

Overview of Classification of Crude Oil Resources

Overview of Average Crude Oil Price by Play/Type of Oil

**Frontiers** 



Onshore Middle East

United States of America Shale

Offshore Shallow Water

Offshore Deepwater

Canadian Oil Sands

Venezuela Heavy Oil

The Dynamics of Oil Storage

Brent Crude Oil Futures in Contango, April 2016 to April 2024

Normal and Inverted Snapshot in Time

Contango and Normal Backwardation: Patterns Over Time

Overview of Crude Oil Price Sustainability

Some Caveats on the Futures Prices as Predictors

Overview of Regional Crude Oil Price Diversification by Geography

Gap Between West Texas Intermediate (WTI) and Brent Crude Oil Prices

Impact of the IMO (International Maritime Organization) 2020 Rule on Crude Oil Prices

Expected Pricing and Economic Impacts of the IMO 2020 Rule on Oil Storage

Impact on High-Sulfur Vacuum and High-Sulfur Fuel Oil (HSFO) Prices

Singapore 380 CST HSFO Versus Brent

Impact on Diesel and Other Refined Product Prices

Overview of the Impact of High Crude Prices (>\$100/Barrel) on the Global Economy

Overview of the Major Impacts of Risks Faced by Oil Storage Companies and Their

Mitigation Strategies

Overview of the Impact of the IMO 2020 Rule on Product Prices

**Gasoline Prices** 

**Diesel Prices** 

**Heating Oil Prices** 

Overview of U.S. Dollar Strength in the Oil Storage Industry

The United States Dollar

The Chinese RMB

Ending the Dollar Dominance in Oil Trade

Overview of the History of Oil Storage

# CHAPTER 4 MAJOR TRENDS THAT WILL IMPACT THE OIL STORAGE INDUSTRY THROUGH 2023

Trends in Global Energy Demand Global Fossil Fuel Demand by Type Trends in Global Oil Supply United States of America

Oil Storage: Global Markets Through 2023



Saudi Arabia

Russia

West Africa

Rest of the World (ROW)

OPEC Versus Non-OPEC Global Oil Supply

Trends in Crude Oil Consumption

The United States of America

China

India

Rest of the World (ROW)

Trends in Global Oil Consumption by End-use

Transportation

Petrochemicals

Other Industry Uses

Residential/Commercial/Agriculture

**Electricity Generation** 

Trends in Oil Storage in Major Trading Hubs

Rotterdam (The Netherlands)

Singapore

**Fujairah** 

Shanghai

Dubai

Other

Trends in Proven Reserves, Production Rate and Time Left for the 10 Biggest Oil

**Producing Countries** 

Trends in Global Crude Oil Refining Capacity

North America

Europe

Asia

Rest of the World (ROW)

Middle East

Africa

Latin America

Trends in Average Crude Oil Price Required to Balance Budgets and Winners and Losers Due to the Drop in Oil Prices

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Winners and Losers Due to the Drop in Global Crude Oil Prices

Trends in Oil Storage in Global Maritime Oil Trade

Vulnerability of the World's Maritime Chokepoints and Alternative Routes

Trends in the Effects of U.S. Trade War with China and Re-imposed Sanctions on Iran



on Floating Storage and Global Seaborne Oil Tanker Flows

The U.S. Trade War with China and Re-imposed Sanctions on Iran on Redirecting/Re-routing Global Seaborne Oil Tanker Flows

Trends in Global Gross Domestic Product (GDP) and GDP Growth Rates

North America

Europe

Russia/CIS

Asia

Latin America, Africa and the Middle East (LAMEA)

Global Gross Domestic Product (GDP) Growth Rates

#### **CHAPTER 5 DEMAND FOR OIL STORAGE BY TYPE**

Global Demand for Oil Storage by Type of Economic Group

Demand for Non-OECD Economic Grouping Oil Storage by Sector

Demand for OECD Economic Grouping Oil Storage by Reserve

Global Demand for Oil Storage by Type of Reserve

Commercial Oil Storage Reserve

Strategic Oil Storage Reserve

Demand for Global Oil Storage by Type of Stock

**Primary Stocks** 

Secondary Stocks (Wholesalers and Distributors)

Stock in Transit and Floating Storage Stocks

Tertiary Stocks (End Users)

Demand for Oil Storage by Type of Market Player

Oil Strategics (Integrated Oil and Gas Companies)

Independent Oil Terminal Storage Players

**Trading Houses** 

Oil Refiners

National Oil Companies (NOCs)

Seaborne Oil Tanker Companies

Independent Oil and Gas Companies

Governments

Demand for Global Oil Storage by Type of Location Along the Supply Chain

Infrastructure

The Crude Oil Supply Chain Infrastructure

Upstream

Midstream

Downstream



Demand for Global Oil Storage by Geographic Region

North America

Europe

Asia

Rest of the World (ROW)

Demand for Oil Storage by Type of Cluster

**Terminals** 

Countries

Tank Terminal Oil Storage Density

Country Oil Storage Density

#### CHAPTER 6 DEMAND FOR OIL STORAGE BY PRODUCT

Demand for Crude Oil Storage by Gravity

Demand for Heavy Crude Oil Storage

Demand for Medium Crude Oil Storage

Demand for Light Crude Oil Storage

Demand for Products Storage by Distillation Fraction

Demand for Light Products Storage

Demand for Middle Distillates Storage

Demand for Heavy Products Storage

## CHAPTER 7 DEMAND FOR OIL STORAGE BY TECHNOLOGY

Demand for Oil Storage by Type of Physical Technology

Demand for Cavern Oil Storage Technology

Demand for Solution Mined Salt Cavern Oil Storage Technology

Demand for Unlined Rock Cavern Oil Storage Technology

Lined Rock Cavern Oil Storage Technology

Demand for Tank Oil Storage by Material Technology

Demand for Carbon Steel Oil Storage Tanks

Demand for Stainless Steel Oil Storage Tanks

Demand for Fiberglass Oil Storage Tanks

Demand for Combination Oil Storage Tanks

Demand for Concrete Oil Storage Tanks

Demand for Tank Oil Storage by Type of Design Technology

Demand for Open Top Oil Storage Tank Technology

Demand for Fixed Roof Oil Storage Tank Technology

Demand for Floating Roof Oil Storage Tank Technology



Demand for Other Oil Storage Tank Technology

Demand for Oil Storage Tanker Seaborne Trade

**Demand for Product Tankers** 

Demand for Medium Range (MR)/Handysize (HS) Tanker Vessel Technology

Demand for Long Range (LR) Tanker Vessel Technology

Demand for Crude Oil Storage Tankers

Demand for Aframax Tanker Vessel Technology

Demand for Suezmax Tanker Vessel Technology

Demand for Very Large Crude Carrier (VLCC) Technology

Demand for Oil on Water Floating Storage Technology

Global Demand for FPSO/FPDSO/FSO and Shuttle Tankers

Floating Storage Trade Technology

Technology Leadership

## **CHAPTER 8 DEMAND FOR OIL STORAGE BY RESERVE END-USE APPLICATION**

Demand for Global Oil Storage by Reserve

Demand for Commercial Oil Storage Reserves by End Use

Global Demand for Commercial Oil Storage in OtherEnd Uses

Demand for Oil Storage in Electric Generation End Use

Demand for Oil Storage in Residential, Commercial and Agricultural End Use

Demand for Oil Storage in Volatility/Price Spikes End Use

Global Demand for Commercial Oil Storage in Transportation End Use

Demand for Oil Storage in Road Transportation End Use

Demand for Oil Storage in Aviation Transportation End Use

Demand for Oil Storage in Rail and Domestic Waterways Transportation End Use

Demand for Oil Storage in Marine Bunkers Transportation End Use

Global Demand for Commercial Oil Storage by Industry End Use

Demand for Oil Storage in Petrochemicals End Use

Demand for Oil Storage in "Other Industry" End Use

Demand for Strategic Oil Storage Reserves by End Use

Demand for Strategic Oil Storage in Energy Security

Demand for Strategic Oil Storage in Managing Market Expectations

Demand for Strategic Oil Storage for Emergency

## **CHAPTER 9 INTERNATIONAL MARKETS**

Demand for Global Oil Storage by Economic Grouping Global Demand for Commercial Oil Storage by Economic Grouping



Demand for OECD North America Commercial Oil Storage

Demand for OECD Europe Commercial Oil Storage

Demand for OECD Asia Commercial Oil Storage

Demand for Non-OECD Commercial Oil Storage

Demand for Global Strategic/Emergency Oil Storage

Demand for OECD Strategic/Emergency Oil Storage

Demand for OECD North America Strategic/Emergency Oil Storage

Demand for OECD Europe Strategic/Emergency Oil Storage

Demand for OECD Asia Strategic/Emergency Oil Storage

Demand for Non-OECD Strategic/Emergency Oil Storage

Demand for Non-OECD Asia Strategic/Emergency Oil Storage

China

India

Vietnam

Singapore

Demand for Non-OECD Europe Strategic/Emergency Oil Storage

Demand for Non-OECD LAMEA Strategic/Emergency Oil Storage

Demand for Non-OECD Africa Strategic/Emergency Oil Storage

Demand for Non-OECD Middle East Strategic/Emergency Oil

Global Demand for Oil Storage On-Transit in Maritime Trade

The Strait of Hormuz

The Strait of Malacca

The Suez Canal and the SUMED Pipeline

The Strait of Bab El-Mandeb

The Danish Straits

The Cape of Good Hope

The Turkish Straits

The Panama Canal

Global Demand for Floating Oil Storage

Demand for North America Oil-On-Water (Floating) Storage

Demand for Europe Oil-On-Water (Floating) Storage

Demand for Asia Oil-On-Water (Floating) Storage

Demand for Latin America, Middle East and Africa (LAMEA) Oil-On-Water (Floating)

Storage

Global Demand for FSO, FPSO and Shuttle Tankers

North American Demand for FPSO, FSO and Shuttle Tanker Storage

European Demand for FSPO, FSO and Shuttle Tanker Storage

Asia-Pacific Demand for FSPO, FSO and Shuttle Tanker Storage

Latin American Demand for FSPO, FSO and Shuttle Tanker Storage



Middle Eastern Demand for FSPO, FSO and Shuttle Tanker Storage West African Demand for FSPO, FSO and Shuttle Tanker Storage Global Demand for Refinery Oil Storage by Geographic Region

North America

European Union (EU-28)

Russia and Caspian

China

Other Asia/Pacific

Middle East, Africa and Latin America

## **CHAPTER 10 INDUSTRY STRUCTURE**

Role of Oil Storage Services Along the Oil Infrastructure Value Chain Capital Expenditure Across the Oil and Gas Value Chain by Segment

Value Chain Location of Investments

**Expenditures by Major Companies** 

Capital Expenditures Across Oil and Gas Infrastructure Chain, by Sector/Key Country

Midstream

Oil Storage

LNG Liquefaction

Underground Gas Storage

Downstream

Petrochemicals

Global Capital Investments in Planned/Announced Oil Storage Capacity by Geographic

Region

North America

Asia

Middle East

Oil Storage Revenues by Type of Company Grouping

**Major Trading Houses** 

Major Integrated Oil Companies

Major Equipment and Oilfield Services Oil Companies Revenues

Big Independent Oil Companies Revenues

Major National Oil Companies Revenues

Major FSPO, FSO, FPS, FSU and FDPSO Vendor Revenues

Major Oil Tanker Company Revenues

Cost of Oil Storage by Type

Underground Cavern Storage/Tank Farms

Rail Tankers



Truck Tanker

Floating Storage on a Large Boat on Water

Very Large Crude Carrier (VLCCs)

Old VLCCs/UVLCCs

FPSO/FSO/FDPSO

Oil Storage Services Company Revenue Generation

**Stocks** 

Oil Storage Services Company Profit Margins

Oil Storage Terminal Hubs

Oil Storage by Major Hub

North America Oil Storage by Type of Major Trading Hub

The Cushing Oil Trading Hub

Hovensa Oil Trading Hub

Hardisty and Edmonton Oil Trading Hubs

Europe Oil Storage by Type of Major Trading Hub

The Amsterdam-Rotterdam-Antwerp (ARA) Oil Trading Hub

Asia Oil Storage by Type of Major Trading Hub

Singapore Oil Trading Hub

ROW Oil Storage by Type of Major Trading Hub Through 2023

Middle East

South/Central America

Africa

**Application Envelopes** 

Application Envelopes for Crude Oil Versus Products Storage

Application Envelopes for Products Versus Crude Tanker Sizes

Application Envelopes for Underground Oil Storage Technology

Application Envelopes for Stainless Steel versus Carbon Steel Oil Storage Tanks

Application Envelopes for Oil on Transit Maritime Trade Versus Chokepoints Flow

Key Market Trends in the Oil Storage Industry

Global Crude Oil Import Dependency

Largest Oil Exporting Companies

Major Oil Exporting Countries and Global Market Shares

Importers of the Highest Dollar Value Worth of Crude Oil

Exporters of the Highest Dollar Value Worth of Crude Oil

Capital Markets

Global Oil and Capital Raised by Geography

North America

Asia-Pacific

Rest of the World (ROW)



Crude Oil Price Forecasting

2017 WTI Oil Price Forecast

2018 WTI Oil Prices Forecast/Forecasting Error and 2019 Forecast

Exploring the Exchange-Storage Setup

New York Mercantile Exchange (NYMEX)

Intercontinental Exchange (ICE)

Types of Oil Contracts

Settlement of Contracts

**Futures** 

International Agreements on Strategic Oil Storages

Global Research and Development Investments

## **CHAPTER 11 LEGISLATION AND REGULATION**

The Oil Pollution Act of 1990

The Energy Policy Act of 1975

The Bipartisan Budget Act of 2015

Fixing America's Surface Transportation Act of 2015

The 21st Century Cures Act of 2016

The Bipartisan Budget Act of 2018

The Tax Cuts and Jobs Act of 2017

The International Maritime Organization (IMO) 2020 Rule

The International Maritime Organization (IMO) Marine Environment Protection

Committee (MEPC) Carbon Dioxide Emissions Target of 2018

IMO's Future Greenhouse Gas (GHG) Regulations

The Energy Independence and Security Act of 2007 (EISA)

The Insurance Act of 2015

The Merchant Shipping Act of 1995

The International Convention on Civil Liability for Oil Pollution Damage (CLC)

Energy Policy and Conservation Act of 1975 (EPCA)

## **CHAPTER 12 COMPANY PROFILES**

Oil Storage Tank Manufacturers

A & G ENGINEERING

BELCO MANUFACTURING CO. INC.

BUCKEYE FABRICATING CO.

COLUMBIAN STELL TANK CO.

CONTAINMENT SOLUTIONS INC.



L.F. MANUFACTURING INC.

PKG EQUIPMENT INC.

POLY PROCESSING CO. LLC

RED EWALD INC.

SYNALLOY CORP. (SYNL: NASDAQ)

ZCL COMPOSITES INC.

**Integrated Majors** 

BRITISH PETROLEUM (BP) PLC

CHEVRON CORP.

EXXON MOBIL CORP.

**ROYAL DUTCH SHELL PLC** 

TOTAL S.A.

Large Independents

ANADARKO PETROLEUM CORP.

APACHE CORP.

CHESAPEAKE ENERGY CORP.

**CONOCOPHILLIPS** 

DEVON ENERGY CORP.

EOG RESOURCES INC.

MARATHON OIL CORP.

OCCIDENTAL PETROLEUM CORP.

Oilfield Services: Diversified

BAKER HUGHES INC.

HALLIBURTON CO.

NATIONAL OILWELL VARCO INC.

SCHLUMBERGER LTD.

WEATHERFORD INTERNATIONAL PLC

Oilfield Services: Service Focused

ARCHER WELL CO. INC.

ARCHROCK INC.

BASIC ENERGY SERVICES INC.

C&J ENERGY SERVICES LTD.

CALFRAC WELL SERVICES LTD.

CAMERON INTERNATIONAL CORP. (SCHLUMBERGER LTD.)

CARBO CERAMICS INC.

CORE LABORATORIES N.V.

CSI COMPRESSCO LP

DANANG RUBBER JOINT STOCK CO.

DOVER CORP.



DRILL-QUIP INC.

FLOTEK INDUSTRIES INC.

FORBES ENERGY SERVICES LTD.

FORUM ENERGY TECHNOLOGIES INC.

GENERAL ELECTRIC CO.

KEY ENERGY SERVICES INC.

NATIONAL OILWELL VARCO INC.

NATURAL GAS SERVICES INC.

NEWPARK RESOURCES INC.

OIL STATES INTERNATIONAL INC.

RIGNET INC.

RPC INC.

SEVENTY-SEVEN ENERGY INC.

SEVENTY-SEVEN ENERGY INC.

**TECHNIPFMC** 

TENARIS S.A.

TETRA TECHNOLOGIES INC.

TRICAN WELL SERVICES LTD.

WEIR GROUP PLC

Small Independents

ENTERPRISE PRODUCTS PARTNERS LP

PLAINS OF AMERICAN PIPELINE

Major Oil Storage Companies

**BUKEYE PARTNERS LP** 

**CIM-CCMP GROUP** 

**CLH GROUP** 

HORIZON TERMINALS LTD.

INTERNATIONAL-MATEX TANK TERMINALS, LLC

KINDER MORGAN INC.

MAGELLAN MIDSTREAM PARTNERS LP (NYSE: MMP)

**OILTANKING GMBH** 

OMAN TANK TERMINAL CO. LLC (OTTCO)

SUNOCO LOGISTICS PARTNERS L.P. (NYSE: MMP)

**TRAPIL** 

**VOPAK** 

Oil Traders

ENBRIDGE INC.

GIBSON ENERGY INC. (TSX: GEI)

**MERCURIA** 



NUSTAR ENERGY L.P.

**TRAFIGURA** 

Seaborne Oil Tanker Operators/Lease and Owners

ALASKA TANKER CO.

BP OIL SHIPPING CO. USA

DHT HOLDINGS INC. (NYSE: DHT)

ESSAR SHIPPING LTD.

**EURONAV NV (NYSE: EURN)** 

FRONTLINE LTD (NYSE: FRO)

**GENER8 MARITIME (NYSE: GNRT)** 

KUWAIT OIL TANKERS CO.

KEYSTONE ALASKA LLC

NAVIOS MARITIME PARTNERS L.P. (NYSE: NMM)

NORDIC AMERICAN TANKERS LTD (NAT) (NYSE: NAT)

OSG SHIP MANAGEMENT INC.

SHIPPING CORP. OF INDIA

SHIP FINANCE INTERNATIONAL LTD. (SFL)

TEEKAY TANKERS LTD. (NYSE: TNK)

TSAKOS ENERGY NAVIGATION LTD. (TNP) (NYSE: TNP)

Offshore Floating Production, Storage and Offloading Vendors

**BUMI ARMADA** 

**BW OFFSHORE** 

**FLUOR** 

**MODEC** 

**PETROBRAS** 

SBM OFFSHORE

**Shuttle Tanker Companies** 

J.J. UGLANDS COS.

KNUTSEN OAS SHIPPING

TEEKAY CORP.

National Oil Companies (NOC)

ABU DHABI NATIONAL OIL CO.

CHINA PETROLEUM AND CHEMICAL CORP.

**ECOPETROL SA** 

ENI

EQUINOR ASA (FORMALLY KNOWN AS STATIOL ASA)

**GAZPROM** 

KAZMUNAIGAS EXPLORATION PRODUCTION

KUWAIT PETROLEUM CORP.



**MOL GROUP** 

NATIONAL IRANIAN OIL CO.

NATIONAL NIGERIAN PETROLEUM COMPANY (NNPC)

OIL AND NATURAL GAS CORP. LTD.

OJSC LUKOIL

**OMV AKTIENGESELLSCHAFT** 

**PERTAMINA** 

**PETROCHINA** 

**PETROECUADOR** 

PETROLEO BRASILEIRO S.A.

PETROLEOS DE VENEZUELA

PETROLEOS MEXICANOS

PETROLEUM DEVELOPMENT OMAN LLC

PETROLIAM NASIONAL BERHAD

PTT (THAILAND)

**QATAR PETROLEUM** 

**ROSNEFT** 

**SAUDI ARAMCO** 

SONANGOL EP

**SONATRACH** 

Major National Governments with Strategic/Emergency Oil Storage Reserves

United States of America

China

Japan

South Korea

Spain

India

South Africa

Oil Storage Inventory Tracking Companies

GEOSPATIAL INSIGHT LTD.

**KPLER SAS** 

ORBITAL INSIGHT ENERGY

REMOTE SATELLITE SYSTEMS INTERNATIONAL

URSA GLOBAL OIL STORAGE MONITORING

**VORTEXA** 



## **List Of Tables**

## LIST OF TABLES

Summary Table: Global Market for Oil Storage, by Sector, Through 2023

Table 1: Global Market for Oil Storage, by Stock Type, Through 2023

Table 2: Global Market Volume for Commercial Oil Storage, by Stock Type, Through 2023

Table 3: Global Market Volume for Strategic/Emergency Oil Storage, by Economic Group, Through 2023

Table 4: Principal Activities in the Movement of Crude Oil from Producing Fields to the Ultimate Consumer

Table 5: Overview of the Importance of Storage Along the Oil Industry Supply Chain

Table 6: Oil Distribution

Table 7: Global Market for Oil Storage, by Volume and Value, Through 2023

Table 8: Global Sales for Oil Storage (Oil as a Percentage of the Dollar Value of Global Crude Oil Imports), Through 2023

Table 9: Optimal Storage Location and Need for Oil Storage

Table 10: Overview of Classification of Crude Oil Resources

Table 11: Average Crude Oil Price, by Play and Type, Through 2023

Table 12: Periodic Cycle of Economic Expansion and Contraction and Impact on Oil Storage Market

Table 13: Futures Crude Prices\*\* at Different Contract Maturities

Table 14: Futures Crude Prices\*\* of a Contract Due in One Year, Going Forward in Time

Table 15: Overview of Factors Driving Up the Price of Crude Oil

Table 16: Global Crude Oil Price Diversification, by Benchmark, Through 2023

Table 17: Global Crude Oil Price Forecast, by Benchmark, Through 2023

Table 18: Rotterdam Fuel Oil Price Forecasts Versus Brent, Through 2023

Table 19: Singapore 380 CST HSFO Versus Brent, Through 2023

Table 20: Brent Versus Amsterdam, Rotterdam, Antwerp (ARA) and Singapore Gas Oil, Through 2023

Table 21: Overview of Impact of High Crude Oil Price on the Global Economy

Table 22: Overview of the Major Impacts of Risks Faced by Oil Storage Companies and Their Mitigation Strategies

Table 23: Overview of Refined Products Price Forecast, Through 2023

Table 24: Yearly Average Exchange Rates for Converting Foreign Currencies into U.S.

Dollars, by Country, 2017

Table 25: Global Energy Demand Share, by Source, 2017-2023



- Table 26: Global Fossil Fuel Demand Share, by Type, 2017-2024
- Table 27: Global Oil Supply, by Country, Through 2023
- Table 28: Global Oil Supply for OPEC Versus Non-OPEC, Through 2023
- Table 29: Global Oil Consumers, by Country, Through 2023
- Table 30: Global Oil Consumption, by End-Use Sector, Through 2023
- Table 31: Oil Storage Share in Major Trading Hub, 2017-2023
- Table 32: Geographic Distribution of Major Oil Storage Terminal Hubs
- Table 33: Proven Reserves, Production Rate and Time Left for the 10 Biggest Oil Producing Countries
- Table 34: Global Refining Capacity, by Country/Region, Through 2023
- Table 35: Average Crude Oil Price Required to Balance Budget, Through 2023
- Table 36: Winners and Losers Due to the Drop in Global Crude Oil Prices
- Table 37: Oil Storage in Seaborne Oil Tankers Within the Value Chain
- Table 38: Global Maritime Oil in Transit Trade Through Chokepoints, Through 2023
- Table 39: Iranian Floating Oil Tanker Storage
- Table 40: Change in U.S. Oil Flow to Countries, August 2017 and August 2018
- Table 41: Global GDP, by Region, Through 2023
- Table 42: Global GDP Growth Rates, by Country/Region, Through 2023
- Table 43: Global Market Volume for Oil Storage, by Economic Group, Through 2023
- Table 44: Global Market Volume for Non-OECD Economic Grouping Oil Storage, by Sector, Through 2023
- Table 45: Global Market Volume for OECD Economic Grouping Oil Storage, by
- Reserve, Through 2023
- Table 46: Global Market Volume for Oil Inventory, by Reserve, Through 2023
- Table 47: Global Market Volume for Oil Storage, by Stock Type, Through 2023
- Table 48: Global Market for Oil Storage, by Market Player, Through 2023
- Table 49: Global Market Volume for Oil Storage Location Along the Oil Value Chain, by Sector, Through 2023
- Table 50: Global Market Volume for Oil Storage, by Region, Through 2023
- Table 51: Global Market Volume for Oil Storage, by Cluster, Through 2023
- Table 52: Global Market Volume for Oil Storage, by Product Type, Through 2023
- Table 53: Global Market Volume for Oil Storage, by Gravity, Through 2023
- Table 54: Global Market Volume for Oil Storage, by Distillation Fraction Product Type, Through 2023
- Table 55: Global Market Volume for Oil Storage for Light Products, by Type, Through 2023
- Table 56: Global Market Volume for Oil Storage for Middle Distillates, by Type, Through 2023
- Table 57: Global Market Volume for Oil Storage for Heavy Products, by Type, Through



2023

Table 58: Global Market Volume for Oil Storage, by Physical Technology Type, Through 2023

Table 59: Global Market Volume for Cavern Oil Storage, by Sector, Through 2023

Table 60: Global Market Volume for Tank Oil Storage, by Material Technology, Through 2023

Table 61: Global Market Volume for Tank Oil Storage, by Design Type, Through 2023

Table 62: Global Market Volume for Oil Storage Tanker Trade, by Category Type,

Through 2023

Table 63: Global Market Volume for Oil Storage Tanker Trade, by Product Carrier Type, Through 2023

Table 64: Global Market Volume for Oil Storage Tanker Trade, by Crude Carrier Type, Through 2023

Table 65: Global Market Volume for Oil on Water Floating Storage Technology, by Function, Through 2023

Table 66: Global Leaders in Key Technology Areas, by Country, 2018

Table 67: Global Market Volume for Oil Inventory, by Reserve, Through 2023

Table 68: Global Market Volume for Commercial Oil Storage, by End Use, Through 2023

Table 69: Global Market Volume for Commercial Oil Storage, by Other End Uses, Through 2023

Table 70: Global Market Volume for Commercial Oil Storage, by Transportation End Use, Through 2023

Table 71: Global Market Volume for Commercial Oil Storage, by Industry End Use, Through 2023

Table 72: Global Market Volume for Strategic Oil Storage, by End-Use Segment, Through 2023

Table 73: Global Market Volume for Oil Storage, by Economic Grouping, Through 2023

Table 74: Global Market Volume for Commercial Oil Storage, by Economic Grouping, Through 2023

Table 75: North American Market Volume for OECD Commercial Oil Storage, by Region and Oil Type, Through 2023

Table 76: European Market Volume for OECD Commercial Oil Storage, by Region and Oil Type, Through 2023

Table 77: Asian Market Volume for OECD Commercial Oil Storage, by Region and Oil Type, Through 2023

Table 78: Rest of the World Market Volume for Non-OECD Commercial Oil Storage, by Country, Through 2023

Table 79: Global Market Volume for Strategic/Emergency Oil Storage, by Economic



Grouping, Through 2023

Table 80: Global Market Volume for OECD Strategic/Emergency Oil Storage, by Region, Through 2023

Table 81: North American Market Volume for OECD Strategic/Emergency Oil Storage, by Country, Through 2023

Table 82: European Market Volume for OECD Strategic/Emergency Oil Storage, by Country, Through 2023

Table 83: Asian Market Volume for OECD Strategic/Emergency Oil Storage, by Country, Through 2023

Table 84: Global Market Volume for Non-OECD Strategic/Emergency Oil Storage, by Region, Through 2023

Table 85: Asian Market Volume for Non-OECD Strategic/Emergency Oil Storage, by Country, Through 2023

Table 86: European Market Volume for Non-OECD Strategic/Emergency Oil Storage, by Country, Through 2023

Table 87: African Market Volume for Strategic/Emergency Oil Storage, by Country, Through 2023

Table 88: Middle Eastern Market Volume for Non-OECD Strategic/Emergency Oil Storage, by Country, Through 2023

Table 89: Global Maritime Oil Storage in Transit Trade Through Chokepoints, Through 2023

Table 90: Global Market Volume for Oil-On-Water (Floating) Storage Capacity, by Region, Through 2023

Table 91: North American Market Volume for Oil-On-Water (Floating) Storage Capacity, by Country, Through 2023

Table 92: European Market Volume for Oil-On-Water (Floating) Storage Capacity, by Country, Through 2023

Table 93: Asian Market Volume for Oil-On-Water (Floating) Storage Capacity, by Country, Through 2023

Table 94: LAMEA Market Volume for Oil-On-Water (Floating) Storage Capacity, by Country/Region, Through 2023

Table 95: Global Market Volume for FPSO, FSO and Shuttle Tanker Storage, by Region, Through 2023

Table 96: North American Market Volume for FPSO, FSO and Shuttle Tanker Storage, by Country, Through 2023

Table 97: European Market Volume for FSPO, FSO and Shuttle Tanker Storage, by Region, Through 2023

Table 98: Asian Market Volume for FSPO, FSO and Shuttle Tanker Storage, by Country, Through 2023



Table 99: Latin American Market Volume for FSPO + FSO and Shuttle Tanker Storage, by Region/Country, Through 2023

Table 100: Middle Eastern Market Volume for FSPO, FSO and Shuttle Tanker Storage, by Region, Through 2023

Table 101: West African Market Volume for FSPO, FSO and Shuttle Tanker Storage, by Region/Country, Through 2023

Table 102: Global Market Volume for Refinery Storage, by Region, Through 2023

Table 103: North American Market Volume for Refinery Oil Storage, by Country, Through 2023

Table 104: European Market Volume for Refinery Oil Storage, by Country, Through 2023

Table 105: Russian and the Caspian Market Volume for Refinery Oil Storage, by Country, Through 2023

Table 106: Chinese Market Volume for Refinery Oil Storage, Through 2023

Table 107: Other Asian Market Volume for Refinery Oil Storage, by Country, Through 2023

Table 108: African Market Volume for Refinery Oil Storage, by Country, Through 2023

Table 109: Middle Eastern Annual Addition of Distillation Capacity

Table 110: Middle Eastern Major Announced Refinery Investment Projects, by Capacity

Table 111: Middle Eastern Market Volume for Refinery Oil Storage, by Country,

Through 2023

Table 112: Latin American Market Volume for Refinery Oil Storage, by Country, Through 2023

Table 113: Role of Oil Storage Services Along the Oil Infrastructure Value Chain

Table 114: Capital Expenditure Across the Oil and Gas Value Chain, by Segment, Through 2023

Table 115: Capital Expenditures Across Oil and Gas Infrastructure Chain on Planned and Announced Projects, by Key Country, 2018-2023

Table 116: Global Capital Expenditures on Oil Storage, by Country, Through 2023

Table 117: Oil Storage Revenues, by Type of Company Grouping, 2017

Table 118: Cost of Oil Storage, by Type

Table 119: Oil Storage Services Company Revenue Generation Share, by Revenue Stream, Through 2023

Table 120: Typical Profit Margins of Oil Storage Services Company, by Stream

Table 121: Global Market Volume for Oil Storage, by Major Storage Hub Type, Through 2023

Table 122: North American Market Volume for Oil Storage, by Major Storage Hub Type, Through 2023

Table 123: European Market Volume for Oil Storage, by Major Storage Hub Type,



Through 2023

Table 124: Asian Market Volume for Oil Storage, by Major Storage Hub Type, Through 2023

Table 125: ROW Market Volume for Oil Storage, by Major Trading Hub Type, Through 2023

Table 126: Application Envelopes of Oil Storage: Crude Versus Products

Table 127: Application Envelopes for Products Versus Crude Tanker Sizes

Table 128: Application Envelopes for Underground Oil Storage Technology

Table 129: Weight Comparison of 1.5 Million L API650 Storage Tank

Table 130: Fabrication Cost Benefits Based on 810 m2 Surface Area @ \$240 m2

Table 131: Maintenance Cost Based on 810 m2 Surface Area @ \$240 m2

Table 132: Application Envelopes for Oil on Transit Maritime Trade Versus Chokepoints Flow, Through 2023

Table 133: Key Market Trends in the Oil Storage Industry

Table 134: Global Market of Crude Oil Imports, by Region, Through 2023

Table 135: Global Market and Rank of Major Oil and Gas Exporting Companies, 2017

Table 136: Global Market Shares of Major Refined Oil Exporting Countries, 2017

Table 137: Major Importing Countries Shares of the Highest Dollar Value Worth of Crude Oil, 2017

Table 138: Major Exporting Countries Shares of the Highest Dollar Value Worth of Crude Oil, 2017

Table 139: Global Market for Oil, by Capital Source, Through 2023

Table 140: Global Market for Oil and Capital Raised, by Region, 2017

Table 141: Absolute Year-Ahead Oil Price Forecast and Forecasting Error, 2017

Table 142: 2018 WTI Oil Price Forecast/Forecasting Error and 2019 Forecast

Table 143: Contract Specifications

Table 144: Settlement

Table 145: Contract Specifications for All North American-Traded Futures and Commodities

Table 146: International Agreements on Strategic Oil Storages

Table 147: Research and Development Investments as Shares of Total Global

Research and Development Spending in Regions/Countries with Significant Oil Storage Capacities

Table 148: Global Research and Development Spending, by Country, Through 2018



# **List Of Figures**

## **LIST OF FIGURES**

Summary Figure: Global Market for Oil Storage, by Sector, 2017-2023

Figure 1: Customers and Markets for Oil Storage Along the Supply Chain

Figure 2: Brent Crude Oil Futures in Contango, April 2016-April 2024

Figure 3: The Crude Oil Supply Chain Infrastructure

Figure 4: The Oil Hub



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