

Upstream and Downstream of the Energy Internet Industry



Overview

Based on the perspective of industrial chain, this paper adopted the method of System Dynamics theory to describe the key role of digital technology investment in upstream energy production, midstream energy transmission and downstream energy consumption of the energy Internet. Based on the perspective of industrial chain, this paper adopted the method of System Dynamics theory to describe the key role of digital technology investment in upstream energy production, midstream energy transmission and downstream energy consumption of the energy Internet. The energy industry serves as the core driving force of the global economy, with a vast and complex industrial chain that encompasses the entire process from resource development and energy conversion to end-use applications. Driven by climate change, energy security, and technological innovation. This guide breaks down the upstream vs downstream supply chain framework through the lens of clean energy and natural resource development, with concrete examples from natural hydrogen exploration in North America. The upstream supply chain refers to all activities that move inputs toward. Energy Internet industry refers to a new industry model, including traditional energy and new energy, which relies on Internet technology and communication technology to achieve efficient allocation of energy and value added. Each segment plays a unique role in managing risk, capital costs, and market exposure, shaping investment opportunities.



Article Content

Mar 06, 2026

Midstream

The oil and gas industry is usually divided into three major components: upstream, midstream and downstream. The midstream sector involves the transportation (by pipeline, rail, barge, oil tanker or

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Downstream (petroleum industry)

The oil and gas industry is usually divided into three major sectors: upstream, midstream, and downstream. The downstream sector is the refining of petroleum crude oil and the processing and

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Energy Internet: Redefinition and categories

In this paper, we propose the redefinition of EI, based on a comprehensive literature review, some latest trends and driving forces in the

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Understanding Upstream vs Downstream Supply Chain

This guide breaks down the upstream vs downstream supply chain framework through the lens of clean energy and natural resource development,

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Global energy demand continues to be influenced by transportation activity, industrial growth, refining capacity, and geopolitical uncertainty. Crude prices can influence upstream earnings,

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Combined with multiple policies and projects in the power industry chain, this provided strong sentiment support for the GO silicon steel market. At the current stage, price transmission

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Energy Internet: State of the Art and Challenges

The Energy Internet is expected to transform the landscape of electricity generation portfolio, distribution, and consumption through the integration of advanced sensing, communication, and

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Oil and Gas Industry Solutions by Siemens Energy

Oil and gas industry solutions in action Gas turbines Compressors Electrification Digitalization / Automation Siemens Energy's industrial and aeroderivative gas

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Global Energy Industry Chain Structure and Development Trends

Explore the structure of the global energy industry chain, from upstream resource development to downstream applications. Learn how decarbonization, digitalization, and cross-sector

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Refining/Hydrocarbon Processing Industries | Downstream Advisors

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Annual Global Oil & Gas Industry Contracts Review Report 2025-2026 ...

Despite a 12% decline in oil and gas contracts, opportunities remain strong in high-value upstream, midstream, and downstream sectors. Key players like Saipem and Tecnimont are pivotal

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This study leverages this unique context to investigate how heightened economic policy uncertainty influences upstream firms' perceptions and subsequently affects the supply chain

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Upstream, Midstream, Downstream: How the Energy

This article breaks down how the upstream, midstream, and downstream segments operate, how they interconnect, and how each contributes

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Examining the Oil, Gas Industry's Value Chain

Business models in the Oil, Gas, and Energy industry outline how companies create, deliver, and capture value. These models vary across the industry's key segments—upstream, midstream, and

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OIL & GAS ENGINEERING SERIES — DAY 2 OF 100 UPSTREAM vs MIDSTREAM vs DOWNSTREAM The Oil & Gas industry is divided into three major sectors, each playing a critical

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Critical paths and sectors for upstream and downstream carbon

Explore the key sectors that drive carbon emissions in the digital industry chain.

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Development Status and Existing Problems of Energy Internet

It studies and analyses the development status and problems of these energy Internet industries from three aspects: industry chain, industry scale and existing problems, and puts forward

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Defining the Energy "Value Chain"

Energy is a large and complex sector. The sector's broad sub-industries can be divided into a "value chain," each segment of which has different characteristics and offers different investment opportunities.

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Upstream vs. Downstream Oil and Gas Operations:

Companies in the oil and gas industry are defined as upstream, downstream, or midstream. Some companies are considered integrated because

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Assessing the Comprehensive Effects of Digital Investment on Energy ...

Based on the perspective of industrial chain, this paper adopted the method of System Dynamics theory to describe the key role of digital technology investment in upstream energy

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Oil & Gas Industry Segments: Upstream, Midstream, Downstream

⚙️ Upstream vs Midstream vs Downstream The oil & gas industry is built on three core segments — each playing a critical role in delivering energy from the reservoir to the end user. ☐☐ ...

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