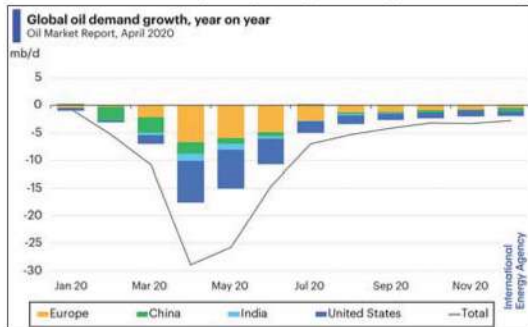


# CONTENTS

## Cover Focus

### 16 IEA's Oil Market Report April 2020 sounds alarming

The International Energy Agency (IEA) Oil Market Report (OMR) as one of the world's most authoritative and timely sources of data, forecasts and analysis the global oil market. Dr.Fatih Birol, Executive Director, IEA discusses the salient points raised in the April 2020 Oil Market Report that points out to a massive oil market challenge that presently looms large over the industry



### 19 The global oil industry is experiencing a shock like no other in its history

The oil world has seen many shocks over the years, but none has hit the industry with quite the ferocity we are witnessing today



### 23 Will petroleum industry remain resilient against COVID-19 effects?



COVID-19 forced petroleum industry into a period of unanticipated turbulence. Due to far reaching consequences of corona virus spread and forced lockdown in most of the high petroleum consuming countries the global economy is under severe stress. The impact on petroleum industry seems to be deeper than any other event in the history. Negative crude oil price already created jittery in the United States of America and producers are struggling to cope with the unprecedented crashing of oil price. Sluggish oil consumption coupled with restricted economic activities leaves no space for the producers and refiners. At this challenging time the petroleum industry needs much needed support to rebound.

## Cover Focus

### 30 Transition to BS6 a herculean task accomplished by India in record time

ENVIRONMENT FIRST  
CLEAN FUEL A MUST

LEAPFROGGING TO BS-VI NORMS

BENEFITS :

- Environment-friendly fuel.
- Significant reduction in vehicular emissions and pollution.
- A step towards cleaner and greener India
- Impetus to clean fuel for sustainable living.

BS-VI rolled out pan-India from 1st April, 2020.

Transition to Bharat Stage 6 (BS6) compliant petrol and diesel from BS IV skipping BS-V across India is a task not seen in any large economy around the globe that which India accomplished successfully in a record time. The oil marketing PSU's (IndianOil, Bharat Petroleum and Hindustan Petroleum) have commenced BS6 fuel supply PAN India with effect from April 01, 2020 even in the face of the constraints posed by the COVID-19 pandemic. The new fuel brings down sulphur by 5 times to a whopping 80% reduction besides reduction in NOx by 25% in petrol and by 70% in diesel. Towards limiting vehicular emission this seen as dawn of a new era for India towards reigning in pollution A report by Arun Kr. Singhal, Chief Editor, DEW

### 35 India transitions to Bharat Stage VI fuels

One of the most important characteristics of BS-VI fuel specifications is 10 ppm of sulphur, as compared to 50 ppm sulphur in BS-IV fuels. CSIR-Indian Institute of Petroleum involved in the R&D and development of refining technologies for production of quality fuels discusses India's transition to BS-VI fuel

### 45 Global emission legislations and BS VI emission norms - A concise view

This article attempts to explain in brief the prevailing worldwide emission regulations as also the Bharat Stage VI (BS VI) norms, in terms of key improvements, as India joins a select league of nations having the world's cleanest petrol and diesel Euro 6 compliant fuels, leapfrogging from form BS IV grade fuel straight to BS VI grade fuel.

## Forum

### 27 Geological process and nature's clarion call

### 53 India's future mobility is green, shared, and connected

The big question on everyone's mind is which technology will dominate the future transport solutions. Will it be electric vehicles or the new more efficient and clean BS VI engines? Will CNG play a key role, considering, increasing focus on gas, and most importantly, is Hydrogen the next break through technology. One thing remains common: traditional business models will not longer be relevant, and customer centricity will be the key

### 57 Digitalization and the future of energy

The report explores the views and digital maturity of organizations across the energy value chain. It reveals which digital technologies organizations are investing in now and which they've earmarked for future investment; the goals and benefits being realized and how internal barriers are creating roadblocks to digitalization, which could see some organizations get left behind. The findings in this piece outline the interplay between the critical elements that organizations need to have in place for digitalization to be a success.

### 71 Sustainable Energy Future - Views of Mr. B.C. Bora, former CMD, ONGC and OIL

## Technology/Technical Papers

### 67 Rise of servitization: A changing paradigm for oil and gas software access

### 75 Natural Gas: Methane Hydrates - VI

The methane hydrate extraction market is projected to reach 66,901.8 thousand cubic meter by 2025 growing at a CAGR of 6.3% from 2021-2025. India's Directorate General of Hydrocarbons is working on the National Gas Hydrate Program to tap this vast unconventional source of gas

## Plus

### 87 Result of DEW Journal's online Brain-Teaser Contest

India goes  
BS VI

Cleaner fuel for a sustainable future

DAWN OF A NEW ERA