

CONTENTS

Cover Focus

8 Net zero emissions fuels using CO₂ and green hydrogen

17 Toward decarbonizing energy supplies

18 Reaching energy and climate goals demands a dramatic scaling up of clean energy technologies - starting now

21 The Rise of Renewables: Shining a Light on a Sustainable Future



Views of António Guterres, Secretary-General, UN at an online event to commemorate the legacy of India's TERI's visionary founder and noted technocrat-industrialist, Darbari S Seth

27 CCUS: Some recent technological innovations

This article makes an attempt to review the efforts made on minimizing the CO₂ emissions with carbon capture, use and storage (CCUS) and recent innovations that may drive the CCUS to support the transition to low carbon economy

Experts View

20 Commercialisation of technology is key to growth of the global blue economy

44 Embracing digital innovation

Technical Papers / Technical Papers

42 Digital Intelligent Artificial Lift system for dual and single string offshore production optimisation

World's first installation of DIAL in dual string wells represents a step change in oil & gas industry's ability to operate gas lifted wells and optimise production. The system gives operators greater confidence to drill and complete dual-string wells by allowing enhanced lift from both strings separately



43 Petroleum paradigm in the 21st century

(The author Prof. Nikolay P. Zapivalov, Chief Scientist, Doctor of Sciences, Institute of Petroleum Geology and Geophysics, SB RAS, Russia considers the key problems which petroleum geology has encountered in the 21st century, and outlines the main ways of its further development)

45 Chia seed based CuO nanofluids as an effective additive for water based drilling fluid: A study through rheological & filtration properties

55 Rice Husk as an additive for Drilling Fluid: A rheological and filtration loss investigation for Water based Drilling fluid

Management

63 Power up your leadership habits in times of covid