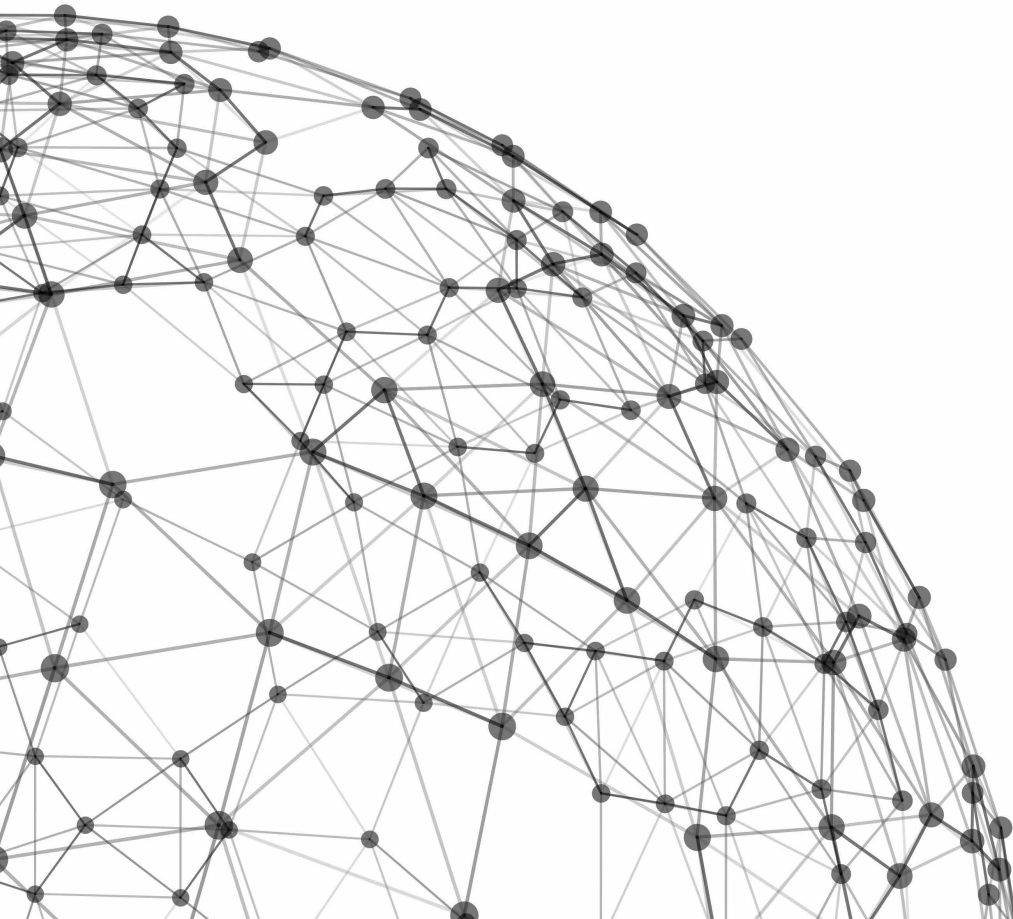


ENERGY HORIZONS

Where India Discusses the Global Energy Transition

16-17 June 2020 | New Delhi



Energy Horizons



A global platform for
**thought and
action leadership**
on the energy transition
**in emerging
economies**



Purpose

ENERGY HORIZONS 2020



10:00

Be the platform for stakeholders, from across nations and sectors, to discuss issues that impact and can impact the energy transition

Nudge action on policy, finance, technology, and regulation to enable the energy transition by showcasing opportunities and emerging solutions from India and the world

Debate and determine means to increase the flow and affordability of private capital for clean energy markets in emerging economies

Showcase research and researchers who are responding to the challenges impeding the pace of the energy transition

Themes

ENERGY HORIZONS 2020



Clean energy markets

Power sector

Industrial decarbonisation

Sustainable mobility


Energy efficiency

and more...



Who will attend

ENERGY HORIZONS 2020

- 
- Ministerial delegations
 - Global energy experts
 - CXOs of energy companies
 - International and Indian government representatives
 - Investors and financiers
 - Donors

Draft agenda

ENERGY HORIZONS 2020

DAY 1 | 16 June

1100 - 1130	Registration
1130 - 1300	Think again Water for energy, energy for water, and everything in between
1130 - 1300	Solutions factory Making finance green, not only finance for green
1130 - 1300	Solutions factory Powering Livelihoods - Where gender counts
1130 - 1300	Solutions factory Sustainable cooling and thermal comfort for all
1300 - 1400	Lunch
1400 - 1530	Solutions factory Natural gas for industrial decarbonisation
1400 - 1530	Solutions factory Making 'green and clean' in India - Cradle-to-grave
1400 - 1530	Solutions factory Energy safety nets for the vulnerable in our cities
1400 - 1530	Roundtable Sustainable cooling with heat pumping technologies (By-invite only)
1500 - 1530	Registration
1530 - 1630	Opening session
1630 - 1800	Plenary Electricity Data (big and small) for the energy transition
1800 - 1900	Energy Horizons debate This house believes that green industries and green industrialisation are good for the economy
1900 - 1930	Ministerial address
1930 onwards	Conference dinner



Draft agenda

ENERGY HORIZONS 2020

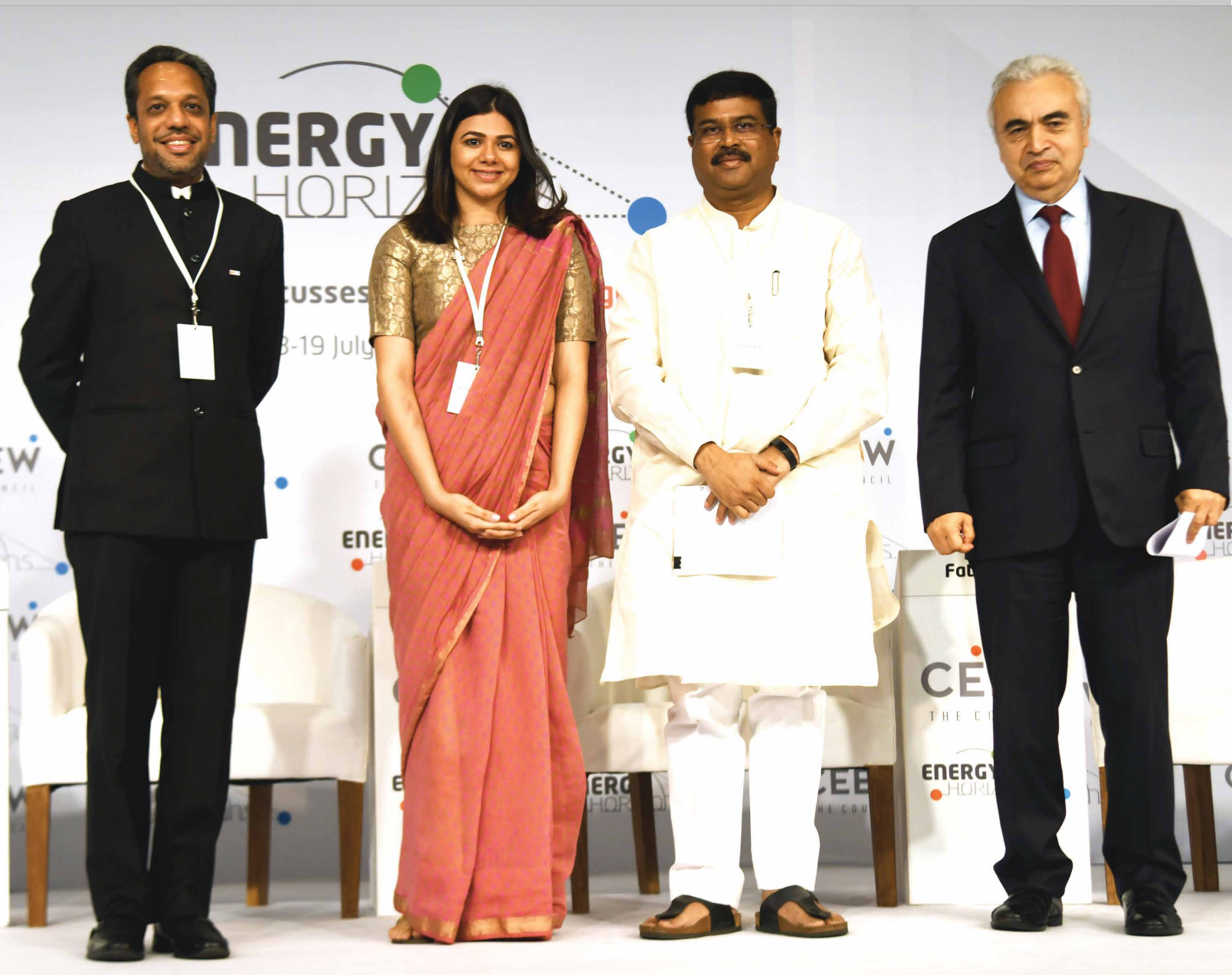
DAY 2 | 17 June

0900 - 0930	Registration
0930 - 1030	Opening session
1030 - 1200	Plenary Powering Livelihoods launch
1200 - 1300	Special session Women in Sustainability
1300 - 1400	Lunch
1400 - 1530	Think again Large-scale renewables in India - Their time is not up
1400 - 1530	Solutions factory Financing sustainable mobility
1400 - 1530	Masterclass Green hydrogen for hard-to-abate sectors
1530 - 1700	Plenary Regulatory reforms for the future electricity market
1700 - 1715	Break
1715 - 1830	Solutions factory India's leap to super efficiency in households
1715 - 1830	Solutions factory The emerging market energy leapfrog
1715 - 1830	Roundtable Low-carbon transport - Technology, design, and use
1830 - 1930	Townhall with Parliamentarians The energy transition will transform geopolitics
1930 onwards	Closing address

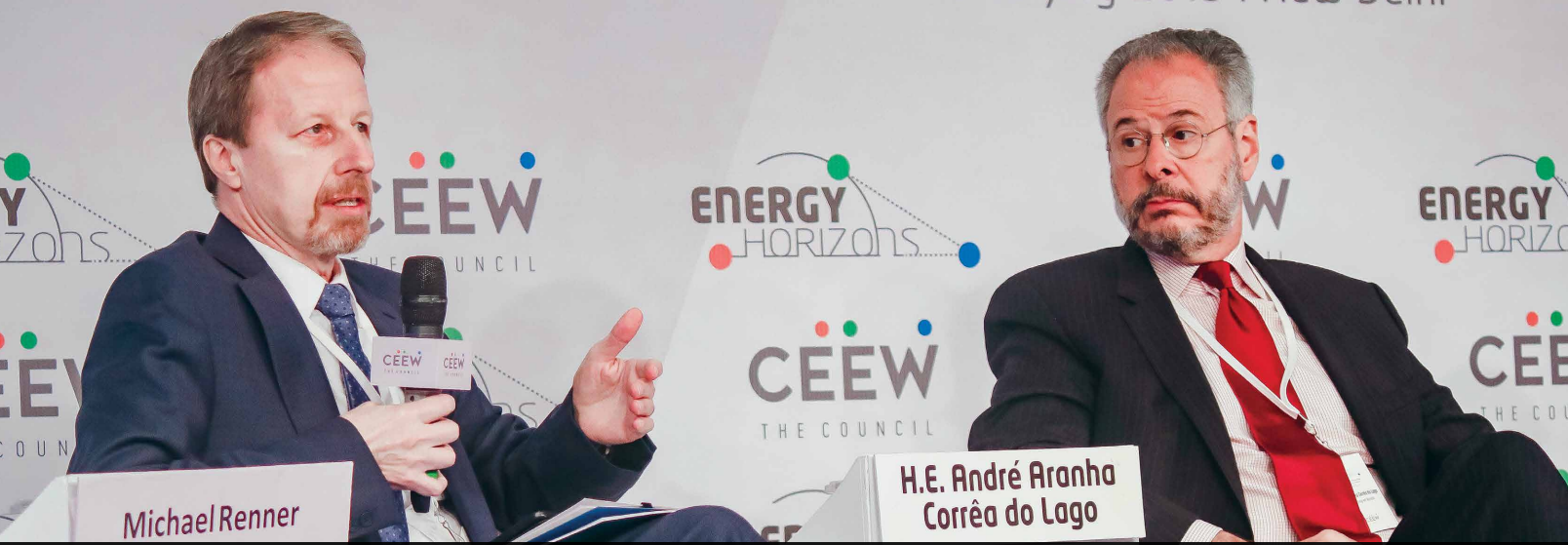
Key highlights

ENERGY HORIZONS 2019

Energy Horizons 2019 comprised several high-level discussions, masterclasses, and solutions factories, which covered a range of issues, including power systems of the future, innovative financial arrangements and business models, and market scaling of next generation technologies.



18-19 July 2019 | New Delhi



Plenary: Mapping the transition



Plenary: Electricity systems of the future in the economies of the future



The CEO's debate: The energy transition will make billions of millionaires



Masterclass: Two fuels in an economy - Energy and finance



Solutions Factory: Speed dating on clean energy innovation



Parliamentarians Townhall: Making the energy transition a poll topic



Suresh Prabhu: Delivering a keynote address



Masterclass: Renewables for SDGs - Jobs, gender, and sustainable economies

60

illustrious speakers



Fatih Birol
International Energy Agency



Kadri Nassiep
City of Cape Town



H.E. André Aranha Corrêa do Lago
Ambassador of Brazil to India



Dónal Cannon
European Investment Bank

12

research publications,
briefs, and factsheets
released to inform
discussions



Cecilia Tam
Organisation for Economic Co-operation
and Development

14

conference and
session partners



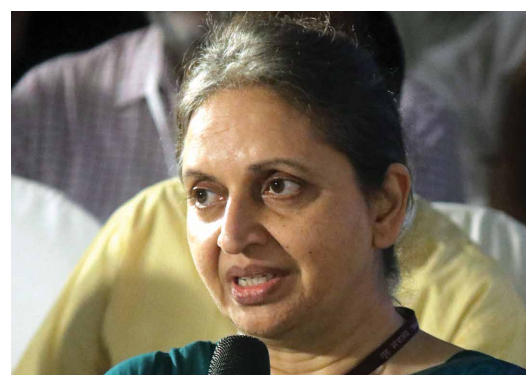
David Palchak
National Renewable Energy Laboratory



Praveen Kumar
Ministry of New and Renewable Energy



Harald Hirschhofer
The Currency Exchange Fund



Sharmila Chavaly
Northern Railways

5000+

social media
engagements



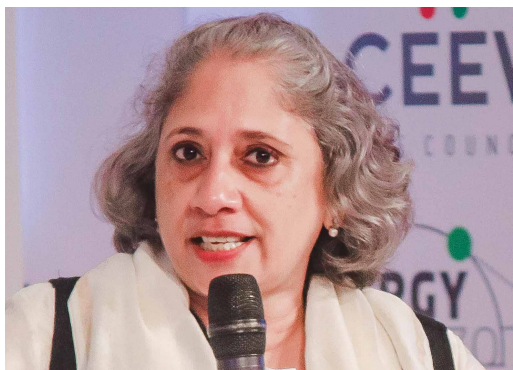
Thierry Lepercq
Solairestream



Michael Renner
International Renewable Energy Agency



Fiona Bourne
International Solar Alliance



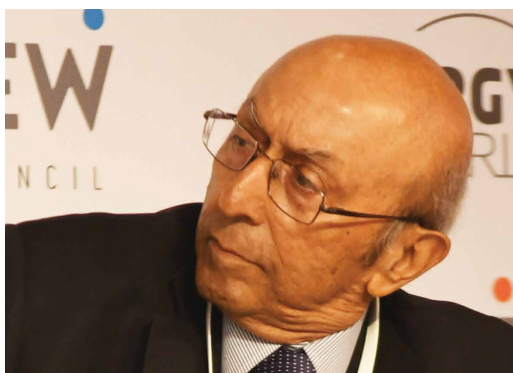
Ligia Noronha
United Nations Environment Programme

550+

delegates

180+

media mentions



Tarun Das
CEEW



Rana Adib
REN21

Energy Horizons 2019 conference partners





What some of our delegates had to say

ENERGY HORIZONS 2019

"It is a privilege for me to speak at CEEW's flagship event, Energy Horizons."

H.E. Mr Dhamendra Pradhan

Union Minister of Petroleum & Natural Gas and Minister of Steel

"CEEW and the IEA have a strong history of cooperation. I am pleased to speak at Energy Horizons and congratulate CEEW for launching a Centre for Energy Finance."

H.E. Dr Fatih Birol

Executive Director, International Energy Agency

"As is clear from the excellent participation and the buzz Energy Horizons has managed to generate, it is very quickly becoming the most prominent energy sector dialogue in India!"

Prasoon Agarwal

Regional Programme Officer - South & Central Asia, IRENA

"Congratulations on a very successful Energy Horizons and the launch of the CEEW Centre for Energy Finance! It was an excellent program with many rich discussions. We very much value your partnership and look forward to our future collaborations."

Anjali Jaiswal

Senior Attorney, Senior Director, International Program, India Team, NRDC

Trending on twitter



PIB India @PIB_India · Jul 19

Secure, Efficient, Affordable and Sustainable Energy will have to be ensured to fuel the \$5 trillion economy: Union Minister @dpradhanbjp while delivering a keynote address at #EnergyHorizons 2019.

Read more: pib.nic.in/PressReleaseSelf...



Ministry of Petroleum and Natural Gas



Divyam Nagpal @DivyamNagpal · Jul 19

Bravo Zulu, @GhoshArunabha @Kanikachawla8 and everyone at @CEEWIndia on the Centre for Energy Finance launch at #EnergyHorizons! Promises to be an action-oriented platform to support project facilitation & investment mobilisation to drive #energytransition in emerging economies.



z @Zaii03 · Jul 18

what an **amazing day 1** of #EnergyHorizons by @CEEWIndia as someone who is just starting out my career in the sustainability / climate action space, I can definitely say I gained a lot of knowledge, insight as well as inspiration from the discussions today.



Dharmendra Pradhan @dpradhanbjp · Jul 19

Delivered the **keynote address** at **Energy Horizons 2019** organised by @CEEWIndia. Shared my views on trends that are crucial to India's **energy** transition and the significant role the **energy** industry would play in driving the Indian economy to the US\$ 5 trillion benchmark.



Umesh Bhutoria | #FEL100 @UmeshBhutoria · Jul 18

All the tweets on #EnergyHorizons give me a vry short term life goal. Being present at the next edition..:)

That would indeed need a lot more work!

Great job @GhoshArunabha team @CEEWIndia, certainly some very fresh ideas. Hoping it goes across to people who need to act on it!

देश में पेट्रोल-डिजल यातायात को धीरे-धीरे इलेक्ट्रिक वाहनों में बदलने की योजना है। इलेक्ट्रिक वाहन को बढ़ावा देने के लिए सरकार ने कई योजनाएं शुरू की हैं। 2019 में भारत को समर्पित करने की योजना है। इस दिशा में भारत को बढ़ावा देने के लिए सरकार ने कई योजनाएं शुरू की हैं।

Medio

देश में पेट्रोल-डिजल यातायात को धीरे-धीरे इलेक्ट्रिक वाहनों में बदलने की योजना है। इलेक्ट्रिक वाहन को बढ़ावा देने के लिए सरकार ने कई योजनाएं शुरू की हैं। 2019 में भारत को समर्पित करने की योजना है। इस दिशा में भारत को बढ़ावा देने के लिए सरकार ने कई योजनाएं शुरू की हैं।

India must double refining capacity despite electric vehicle push: Pradhan

Energy consumption is projected to grow at 4.2% per annum up to 2035



Dharmendra Pradhan, Petroleum Minister

out that even with an aggressive EV roll out plan, India would need 450 MMTPA of refining capacity."

And anyone investing in the refinery would need reasonable assurance that there will be demand for the economic life of the investment," he added.

Pradhan said that India's energy consumption is projected to grow at 4.2 per cent per annum up to 2035, faster than all major economies of the world. "While India's energy demand increased to 754 million tonnes of oil equivalent (Mtoe) in 2017, the per capita consumption of energy is still much lower than the world average.

India Faces Biggest Impact of Tensions in Strait of Hormuz: IEA

Our Bureau

New Delhi: India faces the biggest impact of the current tensions in the Strait of Hormuz as it depends heavily on the region for its oil and gas supplies, said the International Energy Agency (IEA).

Two-thirds of the oil and half the liquefied natural gas (LNG) India imports come from the strait between Iran and Oman, Fatih Birol, executive director of the IEA, said at a conference organised by the Council on Energy, Environment and Water (CEEW).

Petroleum and natural gas minister Dharmendra Pradhan shared Birol's concern, saying for one-third of the global oil trade, said Birol. One-third of the world's LNG trade also passes through the strait.

"When oil prices skyrocket, it becomes dangerous for the economic growth of many countries around the world," said Birol.

On June 13, two oil tankers in the strait were damaged by explosions, an attack seen as a response to the US tightening its sanctions on Iran. The US blamed Iran for the attacks, which the latter denied.

Since then, Indian ships passing through there have taken the assistance of the Indian Navy escort to safely pass through the waterway. On Thursday, an Iranian drone was destroyed by a US ship after it refused to back

'Despite EV push, India needs 80% oil refining capacity hike'

Niti Aayog is plotting to force Indian vehicle companies to go fully electric by 2030

NEW DELHI: Amid a push for electric vehicles, Oil Minister Dharmendra Pradhan Friday said India will continue to rely on petrol and diesel for running automobiles and will need to expand its oil refining capacity by 80 per cent to meet the demand for the fuel in next future.

"EV is a priority but the incremental requirement of fuel will have to be met through a combination of (ultra-clean) BS-VI grade petrol and diesel, CNG and biofuels alongside EVs," he said at the Energy Horizon 2019 conference here.

The world's third-largest energy consumer would need a combination of cleaner diesel and petrol, compressed natural gas (CNG), biofuels and electric vehicles (EVs) for meeting its transportation needs, he said.

"Development of EV infrastructure and popularising through policy support would happen, at the same time a road map has to be provided in terms of the role of all other transportation solutions," he said.

While the country has sufficient capacity to refine crude oil and convert it into fuel such as petrol and diesel, it will need to raise it to meet the future requirement.

"In India, we have a current domestic refining capacity of 250 million tonne per annum. Recent studies have pointed out that even with an aggressive EV rollout plan, India would need 450 million tonne of refining capacity by 2040," he said. "Unless we pay attention to this demand growth in 2018-19. Of this, diesel consumption was 83.5 million tonne and petrol 28.3 million tonne. All of the petrol and bulk of diesel is consumed by automobiles, including cars, buses and trucks.

Pradhan said with an estimated Gross Domestic Product (GDP) of \$3 trillion by the end of this year, India is expected to become the fifth-largest economy in the world overtaking the UK. It is also likely to become the second-largest economy in the Asia-Pacific region by 2025.

India's energy consumption is projected to grow at 4.2 per cent per annum up to 2035, faster than all major economies of the world," he said adding the country's share of total global primary energy demand is set to roughly double to about 11 per cent by 2040, driven by strong economic development.

Energy itself, he said, is in transition with an increased consumption was 83.5 million tonne of electricity in primary energy consumption. Renewable power as a source of energy is getting cheaper and it is the fastest source of energy



Petroleum and Natural Gas Minister Dharmendra Pradhan with International Energy Agency Executive Director Fatih Birol at Energy Horizon 2019 in New Delhi on Friday

IEA does not expect 'huge increase' in crude prices

NIDHI VERMA
New Delhi, July 19

THE INTERNATIONAL ENERGY Agency (IEA) doesn't expect oil prices to rise significantly because demand is slowing and there is a glut in global crude markets, its executive director said on Friday.

"Prices are determined by the markets...If we see the market today we see that the demand is slowing down considerably," said IEA's Fatih Birol, in public comments made during a two-day energy conference in New Delhi.

The IEA is revising its 2019 global oil demand growth forecast down to 1.1 million barrels per day (bpd) and may cut it again if the global economy and especially China shows further weakness, Birol told Reuters in an interview on Thursday.

Last year, the IEA predicted that 2019 oil demand would grow by 1.5 million bpd. But in June this year it cut the growth forecast to 1.2 million bpd.

Prices are determined by the markets...If we see the market today we see that the demand is slowing down considerably

— **FATIH BIROL, EXECUTIVE DIRECTOR, INTERNATIONAL ENERGY AGENCY**

political tensions could yet impact market dynamics.

Crude oil prices rose nearly 2% on Friday after a US Navy ship destroyed an Iranian drone in the Strait of Hormuz, a major chokepoint for global crude flows.

Referring to India, Birol stressed the country could cut its imports, amid rising oil demand in the country, by increasing domestic local oil and gas production.

Prime Minister Narendra Modi had set a target in 2015 to cut India's dependence on oil imports to two-thirds of consumption by 2022, and half by 2030. But rising demand and low domestic production have pushed imports to 84% of total needs in the last five years, government data shows.

Meanwhile, the IEA doesn't expect a global push towards environmentally friendly electric vehicles can dent crude demand significantly, Birol said, as the main driver of crude demand globally has been petrochemicals, not cars.

He said the impact of a serious electric



Prices are determined by the markets...If we see the market today we see that the demand is slowing down considerably

— **FATIH BIROL, EXECUTIVE DIRECTOR, INTERNATIONAL ENERGY AGENCY**

EXCLUSIVE ON ET NOW

TRADE WAR DENTING OIL DEMAND

FATIH BIROL

Forecast Oil Demand Growth At ~1 Mn Bbl For 2019

IEA TO ET NOW

Excess oil production putting negative pressure on oil prices

Bajaj Auto 2584.05 ▼ 45.85

'NOT THE TIME FOR BORROWING'

MONTEK SINGH AHLUWALIA

To BTVI

Foreign Sovereign Borrowing Will Allow Global Players To Comment On State Of Economy

NIFTY LOSERS

M&M	571.30 ▼ 4.37%	Bajaj Finance	3323.10 ▼ 4.17%	Eicher Motors	17664.00 ▼ 4.03%
BTVI	7.80 ▼ 5.45	REFINITIV		ONGC	23.78

POWER PURCHASE PACTS HOUR

Vipul Tuli

Managing Director

Govt Details Off-budget Borrowings

Top Stories

CEEW convening thought leaders



Piyush Goyal

Union Minister for Railways and Commerce at CEEW's National Conference on 'Decarbonising the Indian Railways'.



Kevin Rudd

Former Prime Minister, Australia, at CEEW's roundtable on 'India's Energy, Environment and Climate Concerns.'



Ernest Moniz

Former Secretary of Energy, USA, and Arunabha Ghosh at CEEW's roundtable on 'Scaling Decentralised Clean Energy in India.'



H.E. Ambassador Nils Ragnar Kamsvåg

Former Ambassador of Norway to India, at the CEEW - NER national dialogue on 'Phasing Down HFCs in India: Incentives and Regulatory Approaches.'



Anand Kumar

Secretary, Ministry of New and Renewable Energy (MNRE), at Energy Horizons.



Senior CEEW researchers at a meeting with **Patricia Espinosa**, Executive Secretary, UNFCCC.



Ólafur Ragnar Grímsson

President of Iceland, at a dialogue hosted by CEEW, WWF, and Aspen Institute India.



Prakash Javadekar

Minister of Environment, Forest and Climate Change at the CEEW-WWF dialogue 'Climate Innovation: From Vision to practice'.



Beth Urbanas

Deputy Assistant Secretary for Asia and the Americas at the Office of International Affairs, U.S. Department of Energy, at CEEW's roundtable discussion on 'India-U.S. Energy Partnership'.



Amitabh Kant

CEO, Niti Aayog, at the CEEW-Shakti dialogue on 'Urban Mobility and Electric Vehicle Transition in India'.

About CEEW



{ Ranked South Asia's top think tank for a seventh year running }*

*In the Global Go To Think Tank Rankings category
'Top Think Tanks with Annual Operating Budget under \$5 Million'.

The Council on Energy, Environment and Water is one of South Asia's leading not-for-profit policy research institutions. The Council uses data, integrated analysis, and strategic outreach to explain - and change - the use, reuse, and misuse of resources. The Council addresses pressing global challenges through an integrated and internationally focused approach. It prides itself on the independence of its high-quality research, develops partnerships with public and private institutions, and engages with the wider public.

In over nine years of operations, The Council has engaged in over 230 research projects, published over 160 peer-reviewed books, policy reports and papers, advised governments around the world nearly 530 times, promoted bilateral and multilateral initiatives between governments on 80 occasions, and organised nearly 300 seminars and conferences.

In 2020, CEEW once again featured extensively across nine categories in the *2019 Global Go To Think Tank Index Report*. The Council has also been consistently ranked among the world's top climate change think tanks.

Ranked the best in South Asia with an annual operating budget of less than USD 5 million, seven years in a row. Among top 100 out of 8,200+ think tanks in eight categories.

2019 Global Go To Think Tank Index



Ranked the best in South Asia among 'Top Energy and Resource Policy Think Tanks'.

2019 Global Go To Think Tank Index



Ranked 2nd in the 'International Energy' category for its pioneering study on solar-powered healthcare.

Prospect Think Tank Awards 2018



Contact to collaborate for **Energy Horizons 2020**



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