

DAILY PT POINTERS

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The Hindu-GS3(Environment)Page 8

Does India's ethanol distillery industry have the capacity to produce nearly 1,100 crore litres of fuel ethanol? Why have maize imports increased substantially in the past year?

that don't go into sugar production.

M. Kalyanaraman

The story so far:

at least a year ahead of what was originally planned. This would entail the production of nearly 1,100 crore litres of fuel ethanol in one year.

Where will this come from?

The 1,100 crore litres of fuel ethanol will come from sugar and high grade molasses. Food Corporation of India (FCI) of ethanol will be produced from FCI rice rice, broken rice, and maize. India's ethanol distillery capacity has ramped up | crore litres of fuel ethanol should come to 1.600 crore litres, driven by a range of from maize. For context, India was government incentives and the promise of producing little or no ethanol from maize a stable, lucrative market.

Sugar is expected to provide some 400 distilleries coming up, some sugar crore litres this ethanol year, according to distilleries have modified to dual-feed so

Deepak Ballani, director general of Indian | in the off-season they can use other feedstock (maize) to produce ethanol Association, India had closing sugar

How is maize playing a role? India's maize production is just about

enough for traditional needs such as for the poultry sector, livestock feed, starch production and some 10% for human that ethanol for non-fuel uses will come consumption. As the government had from low grade molasses called C Heavy imposed curbs on allowing sugar and high quality molasses for ethanol The government recently decided to reduce the price of FCI rice to distilleries ramping up in April 2024. From April to from ₹28 to ₹22.5 per kg. The government June, approx. ₹100 crore worth of maize handout states that some 110 crore litres this ethanol year. This means almost 400 Ministry of Commerce figures show that a imported from April to November 2024 The promise of a steady, lucrative ethanol market has meanwhile goaded

many farmers to take to maize cultivation

across India. The major maize producing

Maharashtra, Andhra Pradesh, Raiasthan

Bihar, and Littar Pradesh. For the 2024-25

prospects for kharif this year, he said

importing maize will not be necessary.

production was almost all sugar-based.

maize production had increased by nearly

As things stand now, maize is cultivated in 10% more area at a higher yield, says

six million tonnes in three years, for

from traditional maize uses since

farmers. On whether that won't disrup

negative impact on production of othe

\$6,000 crore savings on oil imports and

the money going into the internal

economy including to farmers. For

context, India's yearly oil import bill is

foodgrains. Mr. lat estimates that 100

potential ethanol use.

Since 2020-21, when ethanol

some 42 million tonnes out of which nine id that India will achieve its Research, Ludhiana, said, Citing good

Sugar is expected to provide ethanol year, according to Deepak Ballani, director general of Indian Sugar and

Mr. Jat who also expects some diversion

supplying to ethanol is more lucrative for production, maize imports



- India is set to achieve 20% ethanol blending in petrol ahead of the 2025-26 target, requiring 1,100 crore litres of ethanol.
- This will be sourced from sugar, molasses, FCI rice, broken rice, and maize. India's ethanol distillery capacity has increased to 1,600 crore litres, with significant contributions from sugar (400 crore litres) and maize (350-400 crore litres).
- Maize production has grown as farmers shift to maize cultivation due to the lucrative ethanol market. Ethanol blending has led to foreign exchange savings of ₹6,000 crore, contributing to India's energy self-reliance.

The Hindu-GS1(Culture)

Remote tribal village in A.P. gets electricity for first time

Harish Gilai ANAKAPALLI

Tribal families at Neelabandha, a hilltop hamlet in Arla panchayat of Andhra Pradesh's Anakapalli district, broke into celebrations after receiving electricity for the first time since Independence. Four households, comprising around 20 persons, were so happy that they performed 'Dhimsa', a popular tribal dance.

Following State government directions, the Anakapalli district administration has been identifying



Lighting up lives: Tribal families jubilant after getting electricity connection for the first time at Neelabandha in Anakapalli district.

to know about lack of electricity in the tribal village, directed authorities from the Eastern Power Districle, G. Prasad, said they provided electricity to the interior hamlet for free. He said providing elec-



- Tribal families in Neelabandha, Andhra Pradesh, celebrated receiving electricity for the first time since Independence. Four households, about 20 people, marked the occasion by performing the traditional 'Dhimsa' dance.
- Dimsa is a traditional dance of Andhra Pradesh tribes, symbolizing unity and cultural heritage. It reflects themes from mythology, folklore, and daily life. Accompanied by instruments like dappu, tudumu, and mori, it is popular during festivals, marriages, and religious events. The dance also helps in resolving conflicts.

Indian Express-GS3(Space)Page17

ALIND CHAUHAN

NEW DELHI, FEBRUARY 3

has aroughly 1% chance of crashing into Earth the asteroid's brightness, it is likely be- 2024 YRV's path and exact size

ity that one will end up hitting Earth, let small, shiny one is challenging however, scientists have closely observed a YR4 came closest to Earth on Christmas Day, populated area. few asteroids such as the 2024 YR4, for both passing roughly 800,000 kilometres from research and monitoring purposes.

What is the 2024 YR4?

face is, this method is imprecise. Is not as big as the asteroid that wiped out said. The Chelyabinsk asteroid injured metre in diameter, such as the Chicxulub Distinguishing a large, dark asteroid and a dinosaurs, and most other extant life some around 1,500 people, and damaged thou-asteroid that led to the extinction of di-According to the Associated Press, 2024 considerable localised damage if it hits a

the planet — about twice the distance be-

tween Earth and the Moon, It will fade from tential. At the moment, NASA has rated 2024 and pose real danger?

last year by the Asteroid Terrestrial-impact only be visible again in 2028. At the mo-Scientists say the asteroid is expected to mosphereevery day, Most are very small and Last Alert System (ATLAS) telescope in Chile. ment, scientists are using some of the release8 to 10 megatons of energy in case of burn up in the atmosphere due to friction. The According to a rough estimate based on world's most powerful telescopes to chart a crash. The asteroid that hit Chelvabinsk, larger ones burnspectacularly and appear as a 40-metre-wide rock could level an entire

fireballs in the sky. Sometimes. unburnt frag- city, the DW report said.

That asteroid, however, was only half the ears. This is because compared to Earth,

without often hitting each other.



damage. Factors like an asteroid's speed,

Hopkins Applied Physics Laboratory, was



- The newly discovered asteroid 2024 YR4 has a 1% chance of hitting Earth in 2032.
- It was found in December 2023 and is about 40-100 meters wide. If it crashes, it could cause localized damage, releasing 8-10 megatons of energy.
- Most asteroids that enter Earth's atmosphere are small, but larger ones can cause significant damage. Space agencies like NASA are developing planetary defense methods, such as the DART mission, which successfully redirected an asteroid's path in 2022.
- Asteroids are small, rocky objects that orbit the sun, mainly found in the asteroid belt between Mars and Jupiter.

Indian Express-GS2(IR)Page17

Trump, Musk & USAID

Established in 1961, USAID has played a central role in spreading American influence abroad. But the agency is now a victm of the Trump administration's bid to rehaul the federal government

ARJUN SENGUPTA

NEW DELHI, FEBRUARY 3

THE UNITED States Agency of International Development (USAID) over the weekend emerged as the latest casualty in the Trump administration's bid to rehaul the federal

A week after President Donald Trump ordered a 90-day pause on foreign aid, his administration removed two top USAID security officials after they refused to grant representatives of Elon Musk's Department of Government Efficiency (DOGE) access to restricted spaces at the agency. Musk has since repeatedly called for USAID's "death", referring to it as a "criminal organisation".

As of Monday evening (IST), the USAID website remains inaccessible.

Why have Trump, Musk targeted USAID?

Trump and Musk have targeted USAID for the same reasons as they have gone after multiple other departments and agencies in the federal government: to reduce spending and eliminate the perceived bloat within the US federal government.



Donald Trump (right) and Elon Musk are looking to cut US government spending. AP

more specifically, the United States' fear of a communist takeover of Latin America following the Cuban Revolution of 1959. In 1961, President John F Kennedy Launched the 'Alliance for Progress", a multi-billion dollar program to boost democracy and economic development in South and Central America with educational initiatives, housing and infrastructure projects, among other things. "[The program] was an attempt_to fight

communist tendencies in Latin America... with USAID responsible for coordinating the activities of the different organisations involved," Unger wrote.

The agency was established via an executive order by President Kennedy after the US Congress in 1961 passed the Foreign Assistance Act which mandated the creation of a single agency to administer foreign aid.

manitarian assistance to India since 1951

when President Harry Truman signed the

India Emergency Food Assistance Act, accord-

ing to an archived page on the USAID website

What role does USAID play in India? WHERE DO THE BILLIONS MANAGED BY USAID GO? The US has provided development and hu-

FY2023 Total Obligations: \$43.4 billion

BY SECTOR

BY REGION





- USAID, the U.S. agency for international aid, is targeted by Trump and Musk to cut government spending.
- The agency provides billions in aid for poverty, healthcare, and education globally. Although it has a long history in U.S. foreign policy, its influence in India has declined due to the rejection of aid with conditions.

PIB-GS2(Governance)





Guru-Shishya Parampara Scheme

Posted On: 03 FEB 2025 4:16PM by PIB Delhi



- The Ministry of Culture's 'Guru-Shishya Parampara (Repertory Grant)' scheme provides financial assistance to cultural organizations training artists in music, dance, theatre, and folk arts.
- Organizations must submit annual applications for both renewal and new selections, which are reviewed by an Expert Committee.
- The scheme supports artists aged 3 and above and encourages new organizations to promote traditional performing arts and nurture emerging talent.

PIB-GS3(Environment)

Ministry of Environment, Forest and Climate Change



International Big Cat Alliance (IBCA) officially comes into force as a full-fledged

Treaty based Inter-governmental International Organization

Posted On: 03 FEB 2025 7:14PM by PIB Delhi



- The International Big Cat Alliance (IBCA) officially became a full-fledged international organization on January 23, 2025, after five countries (Nicaragua, Eswatini, India, Somalia, and Liberia) ratified its Framework Agreement.
- Launched by India in April 2023, IBCA aims to conserve seven big cat species globally, including Tigers, Lions, Leopards, Snow Leopards, Cheetahs, Jaguars, and Pumas.

Air-GS3(Defence)

India-Maldives Joint Military Exercise 'Ekuverin' Begins





The 13th edition of joint military exercise 'Ekuverin' between the Indian Army and the Maldives National Defence Force has commenced in the archipelago nation. The military exercise commenced yesterday is a bilateral annual exercise conducted alternatively in India and Maldives. In 2023, it was conducted at Chaubatia in Uttarakhand from June 11 to 24. Ekuverin meaning 'Friends' in Dhivehi language.