Oil giants BP and Chevron invest in clean energy start-up company

Geothermal energy could be the next source of renewable energy

Canada, Feb 16: BP plc (British Petroleum Company) and Chevron made a landmark expansion into geothermal energy, a new technology that could prove to be the world’s first clean energy derived from a constant source: the natural heat of the earth. They invested in the Canadian startup company, Eavor, that uses Geothermal energy as a renewable energy source.

Eavor’s technology uses drilling techniques taken from the oil and gas industry to create a roughly 20-centimeter wide (8-inch) hole that forms a closed loop network of pipes about 2 to 3 kilometers (1.25 miles to 1.86 miles) underground. Liquid gas then circulates within the closed loop, getting heated up naturally by the earth below(similar to boiling). Once it reaches the surface it can be used to heat buildings or turned into electricity. BP and Chevron have invested about 40 million dollars in Eavor to help it in further research and development.

Mysterious creatures discovered under Antarctica’s ice sheet

Antarctica, Feb 16: Researchers who were drilling through 900 meters of ice in the Filchner-Ronne Ice Shelf (one of the largest ice shelf), situated on the southern edge of Antarctica’s Weddell Sea, stumbled upon unexpected creatures “firmly attached to a rock,” living in the darkness and subzero temperatures. The discovered creatures included stationary animals, sponges, tube worms, and several previously unknown species.

The surprising thing is that animals like these aren't expected to live in these extreme locations, because they are so far from sunlight and any obvious source of food. They were discovered 160 kms under the ice shelf.
What if you forgot your smartphone, and are on your way for a stargazing trip this week? There’s no need to worry. This month, the crescent moon will guide you to locate amazing things in the night sky. Yes, you heard it right. The crescent moon will take you for a stargazing tour where you will find some planets and star clusters. When two or more celestial objects appear close to one another it is known as Appulse. This tour will start on 17th February 2021, and will end on 20th February 2021.

First destination, Uranus. The waning crescent moon will take you to Uranus on 17th February 2021. On this day, you will find Uranus just next to the moon. Uranus will appear as a blue-green little dot through a telescope or a pair of binoculars.

Second destination, Mars. Now the waxing crescent moon will take you to the red planet, Mars. On 18th February 2021, a red dot would be shining next to the moon. We can observe it with unaided eyes. For better visibility and resolution, we could see it through a telescope. Another exciting thing, Mars Perseverance rover is expected to land on Mars which would be live telecast by NASA.

(Note: The live stream of the touchdown will start on 18th February 3:50 pm EST onwards, which is 2:20 am IST on 19th February in India)

Third destination, Pleiades star cluster. For me, this is the most beautiful destination of this tour. Pleiades also known as Seven sisters, is an open star cluster in the Taurus constellation. On 19th February 2021, this star cluster will shine next to the moon. It will appear just like a tiny question mark. Any telescope capable of minimum 30X magnification can reveal its beauty.

Fourth destination, Hyades open star cluster. This is another star cluster in Taurus constellation. On 20th February 2021, Hyades open cluster will shine next to the moon. It will appear as a group of stars in V shape. If you see a bright orange colour star at the edge of this V shape, then that would be Aldebaran, which is the 13th brightest star in the night sky, and makes the eye of the bull.

Every single day this month, you will find amazing things in the night sky. Look up and get lost in the ocean of stars.

*Happy Stargazing*
Jigsaw puzzle: Arts and media

Instructions: Put the pieces into the box so there are words about arts and media in each line across. All the words are described in the clues (information that helps you to find the answers). The first piece is included in the box already.

CLUES
1. musical instruments you hit with thin pieces of wood
2. the most important actor in a film
3. group of people who play music together
4. the place where actors do their job
5. a show on radio or television
6. you watch this in a theatre
7. a musical story where the words are sung
8. a box used for watching programmes
9. a picture made with a pencil or pen
10. a short film, often with music
11. short songs often played with electric instruments
12. what a writer uses
13. a large picture or photo on a wall
14. you look at this when you watch a film
15. music with spoken words
16. a picture made with a camera
17. information about something that happened today
18. colours used to make a picture

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Hello Readers,
Happy Reading😊
Love,

-Deepti Aunty
deeptichhabra15@gmail.com

Wednesday Champs!

The answer to last week’s riddle was 789.
\[(29 + 49 = 78; 7 + 2 = 9)\]
The correct answer was sent in by Chhavi Jain, Aashi Gupta, Karan Veer Singh, Amey Haldankar, Dhruv Sadhwani, Priyansh Jain, Sneha Vikram Vedpathak, Shubhangi Dash, Dhairya Sadhwani, Ananya Sharma, Ishaan Kaila

Congratulations Champs!

What number comes to replace the ?

12 x 12 = 9
23 x 23 = 16
34 x 34 = ?

Hurry up Champs.. Send in your answers to tcpedit@gmail.com

Did you know?

There is a museum in Croatia named “Froggyland” which is composed of 507 stuffed frogs, systematically arranged in everyday human situations. They have all been stuffed using a complex taxidermy technique (through the mouth), to avoid external incisions.

Just for Fun!

by Aryaa Sinha
Referee: 1..2..3 go
All the runners started running except number 1.
Referee: Why are you still standing?
Runner: Because my number is 5.

Be kind whenever possible. It is always possible.
-Dalai Lama -
Sports News: Australian Open

**Melbourne, Feb 16:** Aslan Karatsev became the first man in the Open era, and the first at the Australia Open since 1977, to reach the semi-finals on his Grand Slam debut. He beat Grigor Dimitrov 2-6 6-4 6-1 6-2. Karatsev will play either defending champion Novak Djokovic or Alexander Zverev in the finals.

Dubai, Feb 16: The first picture of Mars captured by the first-ever Arab probe in history. This was 25,000 km above the Red planet, and was shared by Sheikh Mohammed bin Rashid Al-Maktoum, UAE prime minister and ruler of Dubai, through his Twitter account.

Artists Corner: Subainia Roy

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We love contributions! Please share all artwork, poems, writeups with us at tcpedit@gmail.com