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China's artificial sun five times hotter than real sun – 6th January, 2022

Level 0

China created a 70,000,000°C 'artificial sun'. This is five times hotter than the sun. It was hot for over 17 minutes. This is a record. Scientists reproduced nuclear fusion. This is what happens inside our sun. They are trying to make lots of clean energy. The heat project has cost more than \$950 billion.

Scientists have worked on nuclear fusion for years. It makes clean energy. It needs no fossil fuels. It will make the world greener. It could also lower fuel bills. The project is not ready for us to use. A scientist said it is an important step. He said it was a good start towards making nuclear fusion work.

Level 1

China set a record for the hottest heat ever. Scientists created a 70,000,000°C 'artificial sun'. It was five times hotter than the sun for over 17 minutes. Scientists made the heat in a nuclear fusion reactor called EAST. This reproduces what happens inside our sun. The scientists are making the artificial sun to get lots of clean energy. EAST has cost more than \$950 billion. That will be over \$1 trillion this year.

Scientists tried for decades to develop nuclear fusion. It is a great way to make clean energy. It needs no fossil fuels and has no dangerous waste. It will make the world greener and cleaner. It could also lower fuel bills. The technology is still not advanced enough for us to use. A nuclear fusion expert says EAST is an important step. He said it "lays a solid scientific and experimental foundation towards the running of a fusion reactor".

Level 2

China set a record for the highest heat ever recorded. Scientists created a 70,000,000°C 'artificial sun'. The record was for keeping the heat at a temperature five times hotter than the sun for more than 17 minutes. The heat was created in a nuclear fusion reactor. The reactor is part of a project called EAST. It reproduces the reactions that happen inside our sun. The scientists are developing the artificial sun to get a near-endless supply of clean energy. The EAST project has cost more than \$950 billion. That will be over \$1 trillion later this year.

Scientists have tried for decades to develop nuclear fusion. It is the best way to produce clean energy. The process needs no fossil fuels and leaves no dangerous waste. If scientists can make it work, the world will be greener and cleaner. It could also mean lower fuel bills. Nuclear fusion technology is still not advanced enough to be a global industry. However, a nuclear fusion expert says the EAST project is an important step. He said: "The recent operation lays a solid scientific and experimental foundation towards the running of a fusion reactor."

Level 3

China has set a record for creating the highest heat ever recorded. Scientists created temperatures of up to 70,000,000°C in an "artificial sun". The new record was for keeping the heat at a temperature that is five times hotter than the sun. It did this for more than 17 minutes. The extreme heat was created in a nuclear fusion reactor. The reactor is part of the Experimental Advanced Super-conducting Tokamak project (EAST). It reproduces the natural reactions that happen inside our sun and other stars. The scientists want to develop the artificial sun to create a near-endless supply of clean energy. The EAST project has cost China more than \$950 billion. Total costs will run over \$1 trillion this year.

Scientists around the world have been trying for decades to develop nuclear fusion. They say it is the best way to produce clean energy. The nuclear fusion process needs no fossil fuels and leaves behind no dangerous waste. If scientists can make it work, the world will become greener and cleaner. It could also mean lower fuel bills. EAST set the new record in a laboratory. Nuclear fusion technology is still not advanced enough to become a global industry. However, researcher Dr Gong Xianzu, a nuclear fusion expert, says the EAST project is an important step. He said: "The recent operation lays a solid scientific and experimental foundation towards the running of a fusion reactor."