

Svalbard Global Seed Vault

Why in news?

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Svalbard Global Seed Vault (SGSV) facility in Norway has recently faced a grave existential threat.

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What is SGSV?

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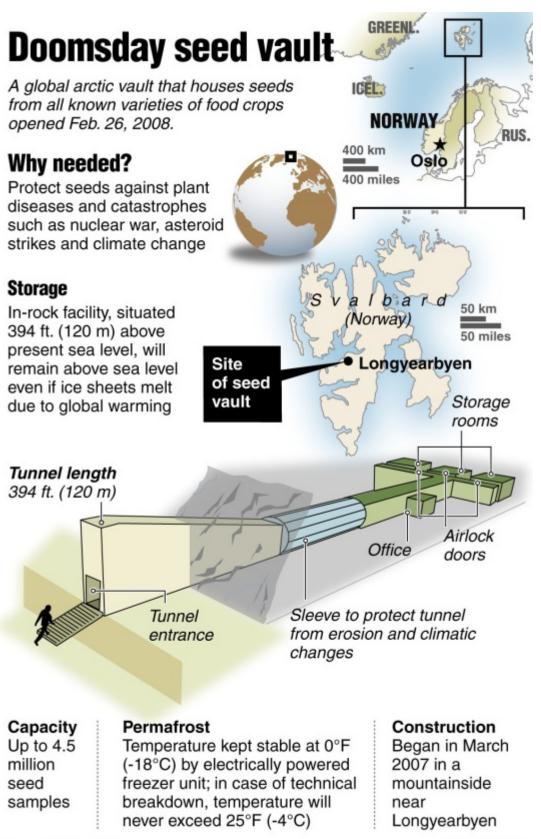
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- SGSV facility lies 360 feet inside of the 1,500-foot Platåberget mountain in Nordenskiöld Land on the island of Spitsbergen in Svalbard, Norway. \n
- It is a vault that contains humanity's ultimate food security. \slashn
- Millions of seeds of various crop varieties are locked in airtight boxes at minus 18 degrees Celsius.
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- It is built to withstand manmade and natural disasters. \slash_n
- It is theoretically protected against conventional bombs, and sits out of reach of rising sea levels.

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- Norway's government owns the vault. \n
- Depositors retain ownership rights. n
- India has sent around 9.5 crore seeds to Svalbard. $\space{\space{1.5}n}$

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Source: Statsbygg Norway

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What is the threat?

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• Permafrost refers to the perennially frozen soil found in the Earth's higher latitudes.

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- Technically, it is ground that remains at or below a temperature of 0°C for at least 2 consecutive years. $\$
- The permafrost around the entrance of the vault melted, flooding the access tunnel with water.

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- The thaw in the permafrost around the entrance of the facility is likely the result of consistently rising global temperatures. \n
- The builders of the SGSV announced that repairs were under way at the facility, and that water had reached no seeds. \n

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Source: The Indian Express

