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US–Japan Nuclear Energy Deal (SMRs)

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The United States and Japan have unveiled a major nuclear energy deal following a meeting between Donald Trump and Sanae Takaichi. The agreement focuses on investing in next-generation nuclear energy, particularly Small Modular Reactors (SMRs), as part of a broader strategic and economic partnership.

Key Highlights

Japan will invest up to \$40 billion in building Small Modular Reactors (SMRs) in the United States.

Reactors will be constructed in Tennessee and Alabama by companies such as GE Vernova and Hitachi.

The deal is part of a larger US–Japan investment framework (~\$73 billion) covering energy and infrastructure.

Additional investments include up to \$33 billion in natural gas projects in states like Texas and Pennsylvania.

Objective of the Deal

Strengthen energy security and ensure stable electricity supply

Support energy demand from AI-driven data centres

Enhance technological leadership in nuclear energy

Deepen US–Japan strategic partnership

About Small Modular Reactors (SMRs)

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SMRs are advanced nuclear reactors with smaller capacity than traditional plants.

Example: BWRX-300

Features:

Faster construction time

Lower cost

Enhanced safety (passive safety systems)