

Roadmap for new nuclear power in Sweden

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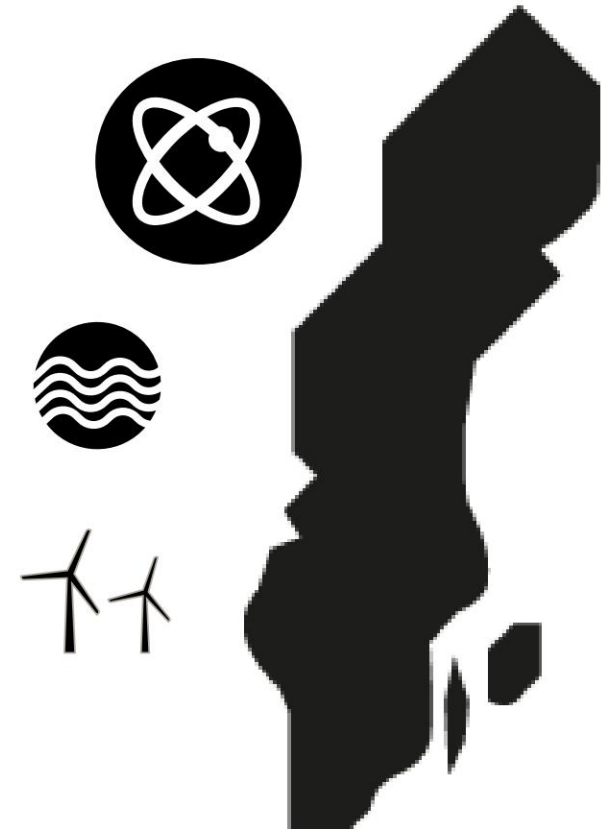
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Actions taken by the government so far

- New energy policy goal of 100 percent fossil-free electricity production by 2040
- Credit guarantees for nuclear power
- Investments in nuclear power research and competence development at the authorities
- More reactors in more places are allowed
- Investigation added to simplify the permitting process for nuclear power
- Increased international cooperation on nuclear power



Contents of the itinerary

Four points:

- A nuclear coordinator is added
- The state's financial responsibility is clarified through a risk sharing model
- New nuclear power with total output equivalent to at least two large-scale reactors by 2035
- Massive expansion of new nuclear power by 2045



A nuclear power coordinator must be appointed

- Support the government in the work of establishing new nuclear power
- Identify measures that promote new nuclear power
- Gather interested parties for the expansion of nuclear power in Sweden



State risk sharing model to be developed

- Taking risks over long periods of time inhibits investments in nuclear power
 - Credit guarantees will not be enough
- Investigators must propose a risk-sharing and financing model where the state shares the risk.
- The work will be coordinated with the work that is taking place around the future design of the electricity market and lessons will be learned from other countries investing in nuclear power.

New nuclear power with total output was equivalent to at least two large-scale reactors by 2035

- The new policy must enable new nuclear power with a total output of at least 2,500 MW to be in place by 2035 at the latest.
- A first application must have been submitted to SSM no later than 2025.
- The ambition is for the conditions to be in place for the authority's examination to be completed in 2026
- A faster trial is not allowed to compromise safety.

Massive expansion of new nuclear power by 2045

- Given the long-term needs for fossil-free electricity until 2045, an expansion is needed that could, for example, correspond to ten new large-scale reactors.
- The exact amount of electricity and type of reactors needed depends on several things:
 - The electricity demand and the expansion rate in the electricity system,
 - Where new consumption and production are located in the country,
 - The number of large-scale and small-scale modular reactors,
 - Operating time extension of existing nuclear power reactors,
 - The technology development for new nuclear power.

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- all good forces are needed

