


A photograph of three children standing on a grassy hill. On the left is a boy with brown hair wearing a dark blue cable-knit sweater. In the center is a girl with blonde braids wearing a green jacket over a grey hoodie. On the right is a boy with dark curly hair wearing a blue and black plaid shirt over a white t-shirt. They are all looking towards the camera. In the background, a city with a river is visible under a cloudy sky.

Fossil-free living within one generation

Desirée Comstedt
Vice President New Nuclear

A photograph of an industrial facility, likely a power plant or refinery, under a clear blue sky. In the foreground, a large, dark, complex structure with multiple levels and spiral staircases is visible. In the background, several tall smokestacks are present, with one emitting a plume of white smoke. A crane is also visible near the base of the smokestacks. The overall scene suggests a large-scale industrial operation.

**Transitioning to a fossil-free
society will be challenging**

We can choose to leave the fossil era...

Sweden can
phase out
135 TWh
Oil, Coal & Gas

And reduce
imports
SEK 278
billion

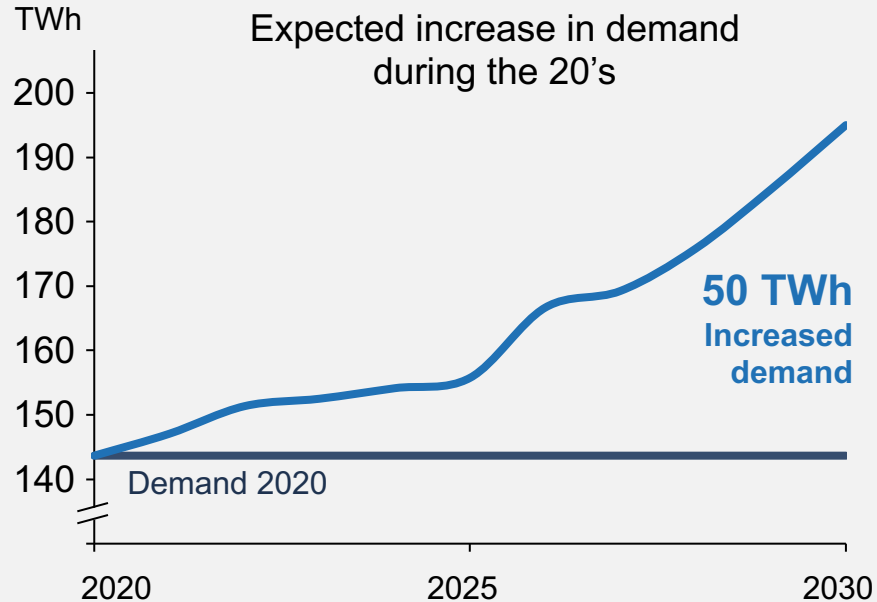
Sweden has the opportunity to become a leading fossil-free economy

**Reach the
climate goals,
2030 and 2045**

**Becoming
independent of
imported fossil
fuels**

**Creates
competitiveness,
investment and
jobs**

Electrification starts now Industry can't wait



Necessary production to meet demand

If the industrial investments are to succeed, more wind power needs to come in now

~ 18 TWh

Additional wind awaiting final permit

~ 18 TWh

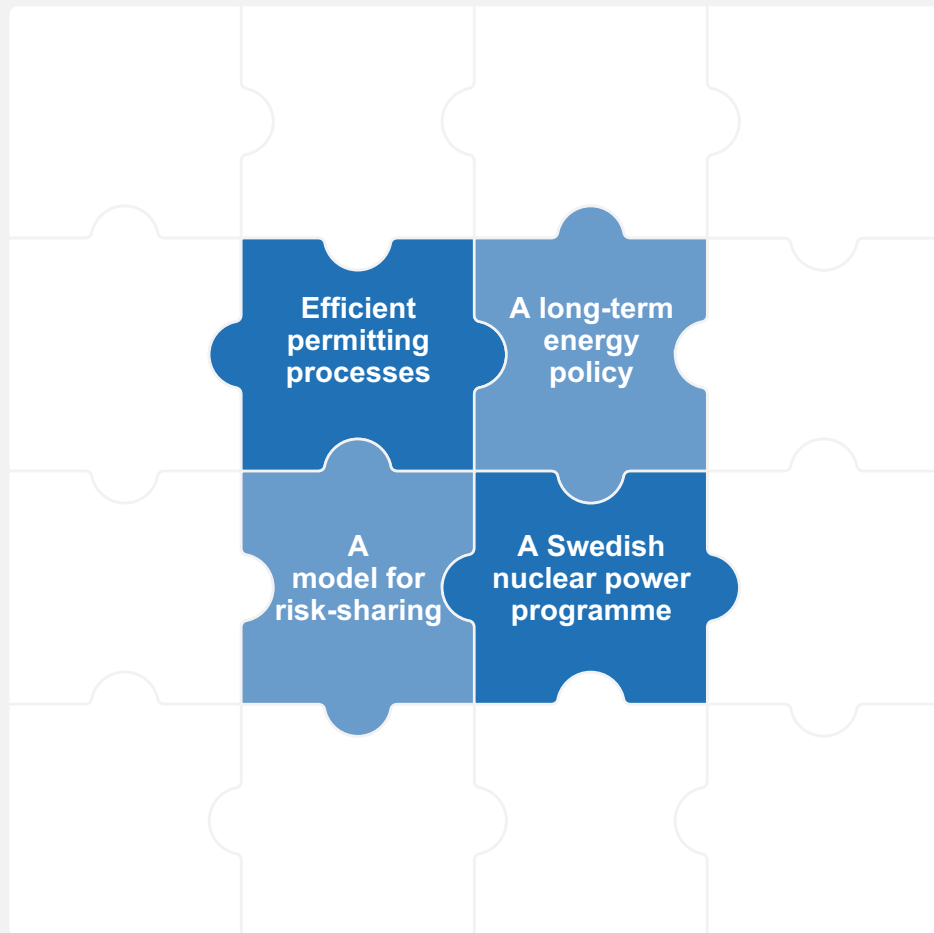
New attic under construction

~ 30 TWh

Existing overcapacity (export)

New nuclear requires a national mobilisation

Sweden needs a nuclear power programme – investing in nuclear power is a commitment to society that goes beyond individual investment decisions. When the following pieces are in place, the foundation for a successful nuclear power program in Sweden will be in place



Political stability



Clear national ambition

Shows Sweden's ambition for suppliers and indicates that Sweden is a market that should be prioritized.



Clear and stable framework

Investors need to know what conditions will apply in the market when the reactor is completed, which is in several terms of office.



International experience

International experience shows that an important prerequisite for a successful nuclear power project is a stable political framework that do not change over time.

There are more projects than suppliers can handle – Suppliers and investors assess which countries have the greatest potential and prioritise accordingly

There is a need for a government organisation

The conditions for a nuclear power programme are different today than when existing nuclear power was built – all the conditions must be in place



Act as a hub for all authorities



Creating access to national and international supply chains



Support vocational schools, colleges and universities

Feasibility study for SMR

The feasibility study is now concluded and results will be communicated during February



Timeline

Deployment mid 30s, assumes that the following milestones are reached;

- Application to SSM & MMD 2025
- Investment decision 2028/2029



Preferred supplier

Selection of supplier needs to be made before submitting the application

Activities during the past year



Preparation for environmental impact assessment



Securing financing structure



Submitting RFP



Initiate development of a new zoning plan for the Värö peninsula

Vattenfall minority owner and partner to Fermi

On-going collaboration areas

- Share know-how, best practices and lessons learned
- SMR technical studies (safety, security, EP&R, etc.)
- SMR deployment and construction risks (contracting, PPAs)
- Nuclear training and competence

Opportunities and synergies

- SMR fuel delivery and services
- New site evaluation (greenfield site works)
- Qualification of suppliers, partners, constructors
- Pooling of standardized equipment and components
- O&M and fleet services





**More climate
heroes are
needed**



VATTENFALL

