Swedish Government's Preparations for a Nuclear Expansion

CET 2024

2024-09-18, Oskarshamn

Carl Berglöf, National Nuclear New-build Coordinator

Inquiry assigned by the Ministry of Climate and Enterprise



A new course for energy policy in Sweden

- "100% fossil free" electricity production
- Removed nuclear cap
- Targets for system planning
- New policy approved by Parliament
 - Includes Nuclear Roadmap





Roadmap for New Nuclear Power

- New nuclear capacity corresponding to two large-scale reactors by 2035
- A strong build-up of nuclear capacity to 2045



10 000 MW

2024

2045



We have done it before!

Today:

- +50 years of operational experience
- Developed regulative framework
- An established supply chain
- International experience and global cooperation
- Access to well-proven technologies as well as new technologies



2024

1964





A coordinated approach to programme development

Government

Government offices

Authorities

Inquiries



- Effective communication
- Structured advice

Utilities

Investors

Industry and endusers

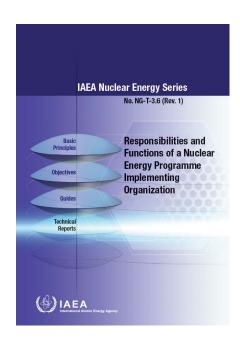
Vendors & Project developers

Supply chain

Municipalities

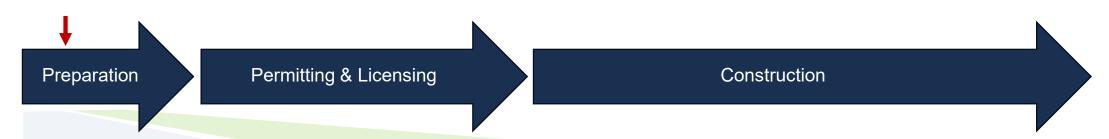
Academia

International contacts





Critical path to first grid connection



Promotional measures

- Financing model, state aid
- Electricity market development
- New authority instructions
- Credit guarantees
- Evaluation of possible sites
- Nuclear coordination function
- Skills, workforce & supply chain

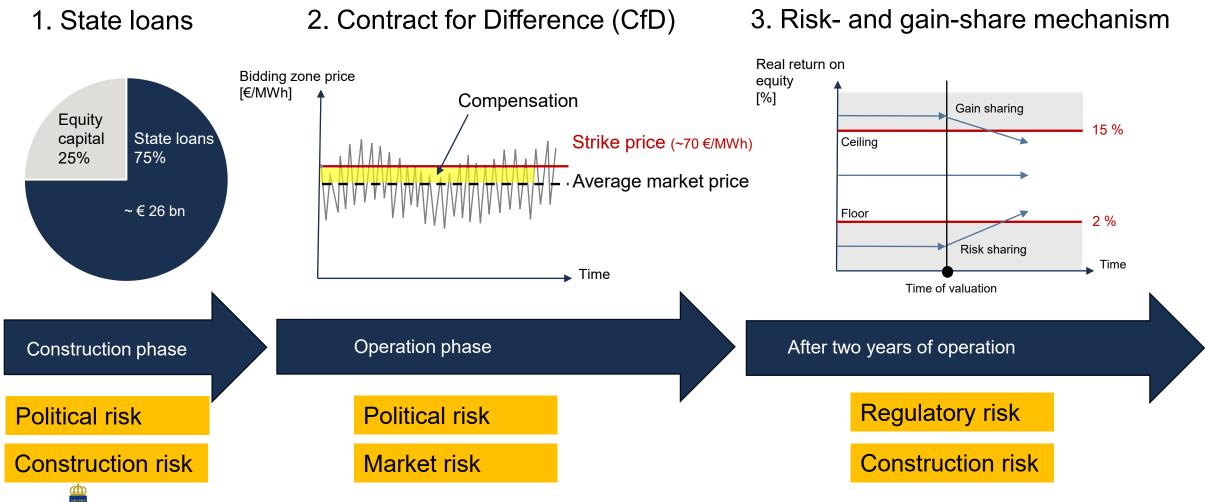
Regulatory measures

- Renewal of Environmental Act
- Renewal of Nuclear Act
- Renewal of nuclear licensing process
- Pre-licensing evaluation of new reactor designs
- Conditions for nuclear waste management
- Development of a Technical Support Organisation
- Skills & workforce



Proposed Financing Model (4-6 GW)

SWEDISH GOVERNMENT



A first interim report published





En nationell samordnare för utbyggnad av kärnkraft KN 2024:01 Carl Bergiör 446 76 142 67 87 carl.berglof@regeringskansliet.se

Promeman

2024-06-17 Komm2024/00450/KN 2024:01-1/

Klimat- och näringslivsdepartementet Finansdepartementet Arbetsmarknadsdepartementet Landsbygds- och infrastrukturdepartementet

Interim report: The nuclear new-build coordinator's recommendations regarding the expansion of new nuclear power in Sweden – June 2024

Introduction

Since 1 February 2024, the inquiry "A national coordinator for the expansion of nuclear power" (KN 2024:01, hereinafter referred to as the "nuclear new-build coordinator" or "the inquiry") has evaluated the measurest aken linked to the expansion of nuclear power in Sweden and whether these are sufficient in relation to the roadmap for new nuclear power presented by the cooperating parties within the Tido Agreement and adopted by the Swedish has initiated, and in some cases implemented, several measures and investigations to create clearer and more efficient conditions for new nuclear power in Sweden. The Government has also assigned a number of missions to authorities for the same reason. These efforts are summarised in Chapter 4. In Chapter 5, the nuclear new-build coordinator provides an assessment of the ongoing investigations in relation to the objectives of the roadmap.

Regeringens proposition 2023/24:105, Energipolitikens långsiktiga Inriktning, 14 mars 2024.

