

Swedish Government's Preparations for a Nuclear Expansion

CET 2024

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Inquiry assigned by the Ministry of Climate and Enterprise

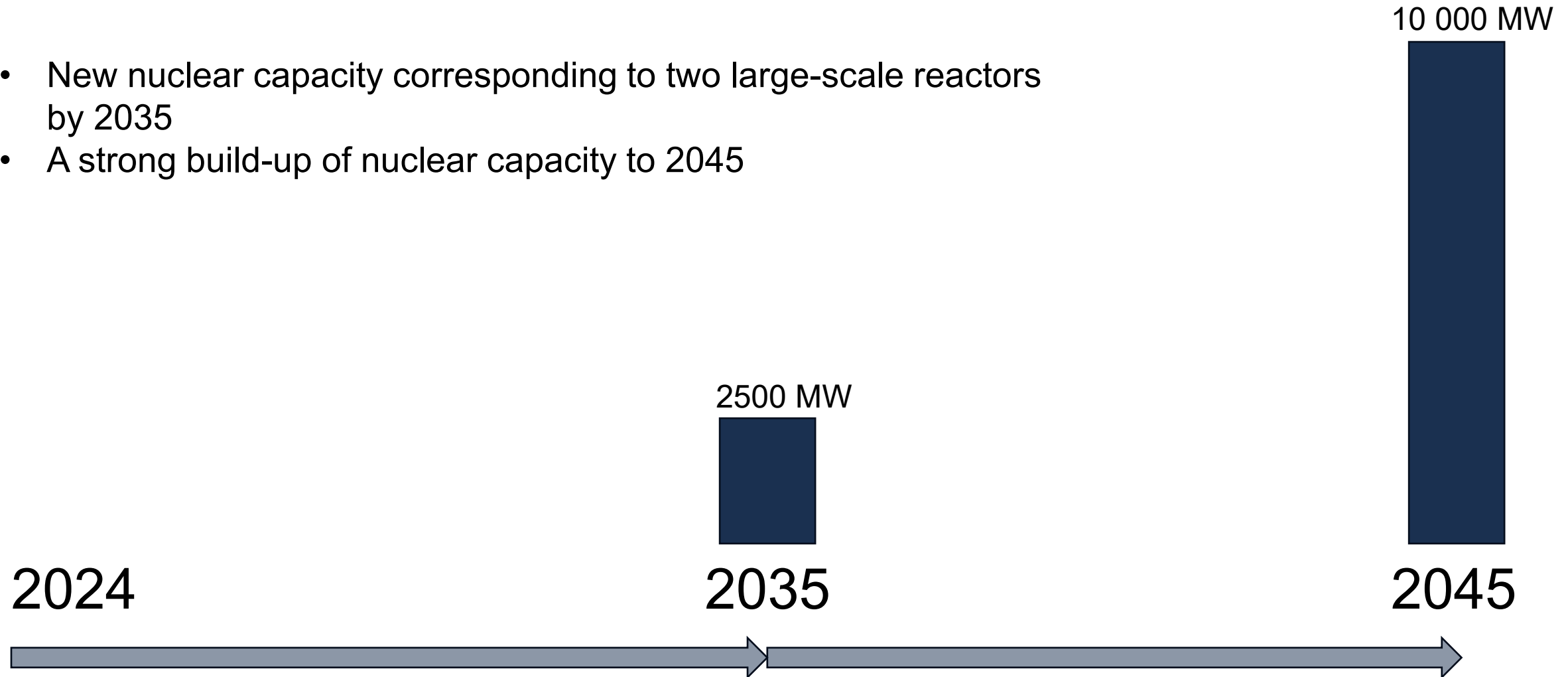
A new course for energy policy in Sweden

- “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

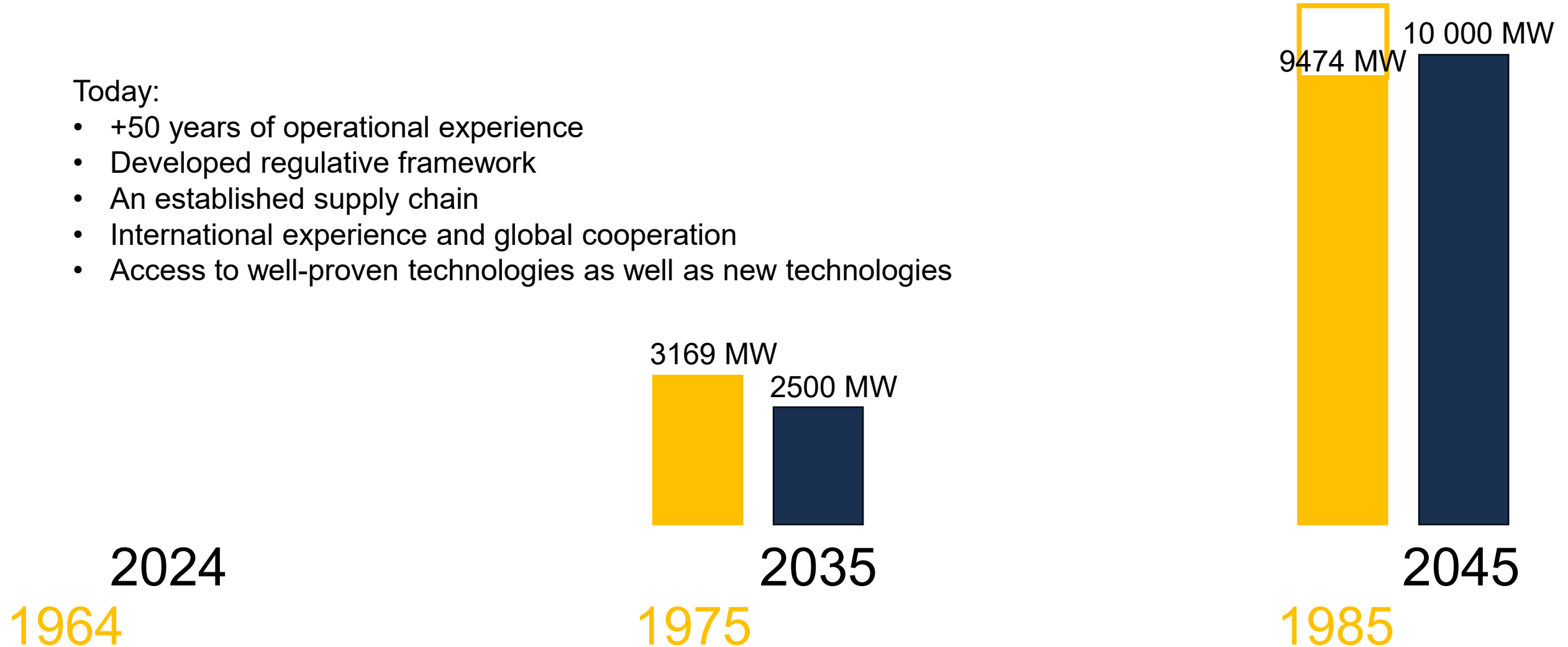
- New nuclear capacity corresponding to two large-scale reactors by 2035
- A strong build-up of nuclear capacity to 2045



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



1964

1975

1985

2024

2035

2045

A coordinated approach to programme development

Government

Government offices

Authorities

Inquiries



- Effective communication
- Structured advice

Utilities

Investors

Industry and end-users

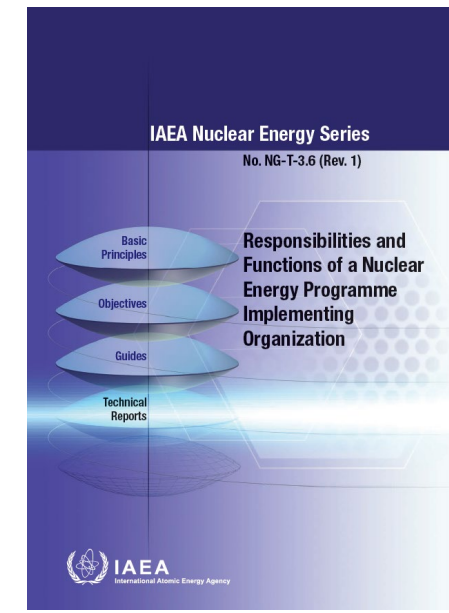
Vendors & Project developers

Supply chain

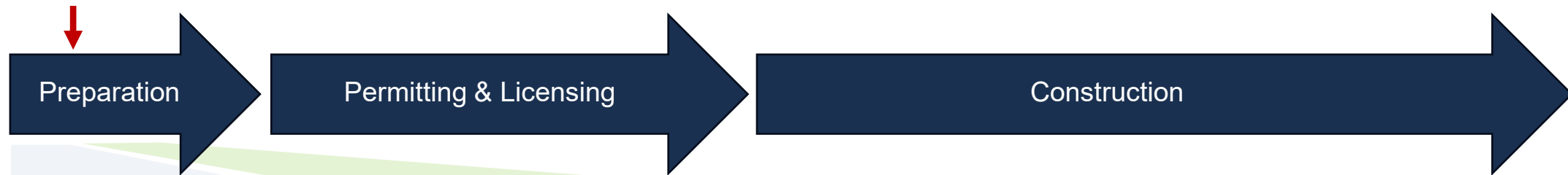
Municipalities

Academia

International contacts



Critical path to first grid connection



Promotional measures

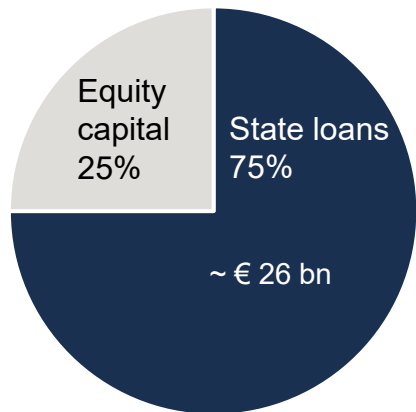
- Financing model, state aid
- Electricity market development
- New authority instructions
- Credit guarantees
- Evaluation of possible sites
- Nuclear coordination function
- Skills, workforce & supply chain

Regulatory measures

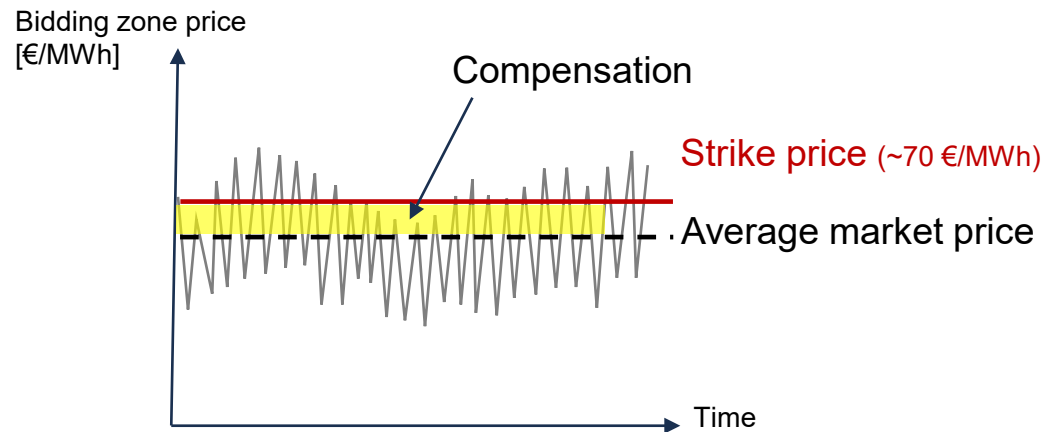
- Renewal of Environmental Act
- Renewal of Nuclear Act
- Renewal of nuclear licensing process
- Pre-licensing evaluation of new reactor designs
- Conditions for nuclear waste management
- Development of a Technical Support Organisation
- Skills & workforce

Proposed Financing Model (4-6 GW)

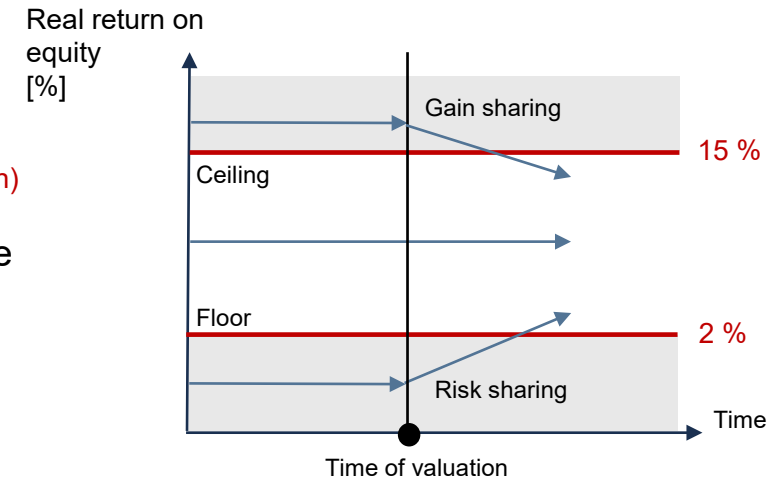
1. State loans



2. Contract for Difference (CfD)



3. Risk- and gain-share mechanism



Construction phase

Operation phase

After two years of operation

Political risk

Political risk

Regulatory risk

Construction risk

Market risk

Construction risk

A first interim report published

