FINANCING NUCLEAR

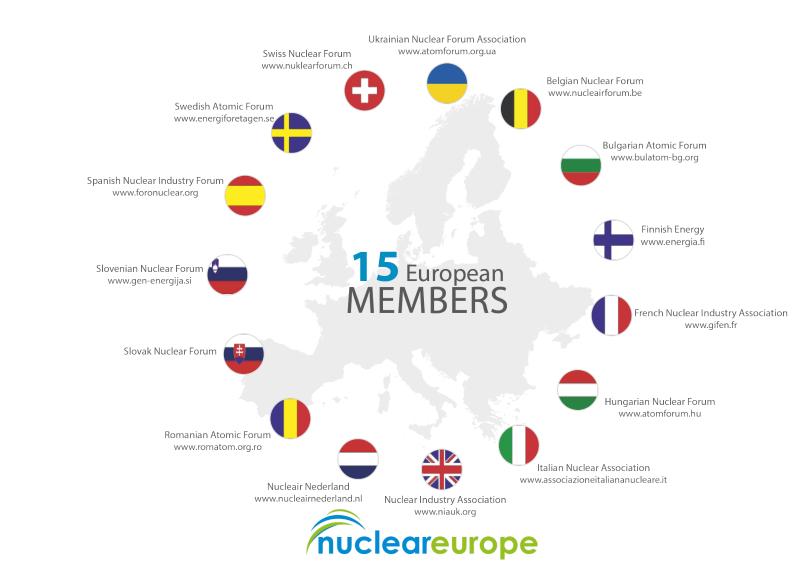
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Membership

nucleareurope represents national nuclear associations



Corporate Members:

<u>CEZ</u> (Czech Republic) <u>Fermi Energia</u> (Estonia) <u>Nuvia</u> (France) <u>PEJ</u> (Poland) Rolls-Royce SMR (UK) <u>Urenco</u> (Global) <u>KGHM</u> (Poland) <u>NAAREA</u> (France)

What does nuclear contribute to the EU's economy?





Cost of financing & new nuclear builds

- Construction cost = high capital cost = large financing cost
- No single approach to nuclear financing OECD NEA (2020) notes 3 models:
 - Government financing model (Sovreign model). Either State Aid (direct) or Public Borrowing (indirect). Countries with low sovreign risks (BBB-rating and above) can provide advantageous financing conditions
 - (Private) Corporate model. Utilities with strong balance sheet can finance large projects by raising equity and borrowing money (debt). Creditors can claim loan against company assets as a whole
 - (Private) Project finance model. Creation of a project company = legal separation between
 project and sponsors other assets. Lenders have limited recourse beyond revenues/assets of
 the project

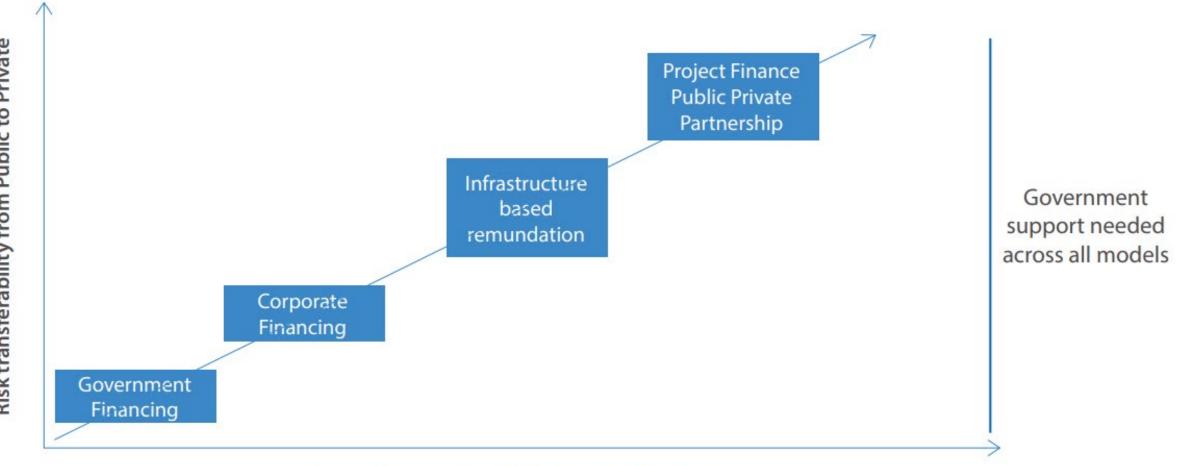


Ownership & Financing Models

- No single approach to financing of nuclear project + ownership is no longer the single determinant of a financing model
- Ownership-wise two main model have been used in the past:
 - A government financing model (or sovereign model)
 - A corporate financing model.
 - In both of those models, governments play different roles either as 'investors' or as technology 'providers' to a state-owned company. Under corporate financing models, governments co-invest with corporates



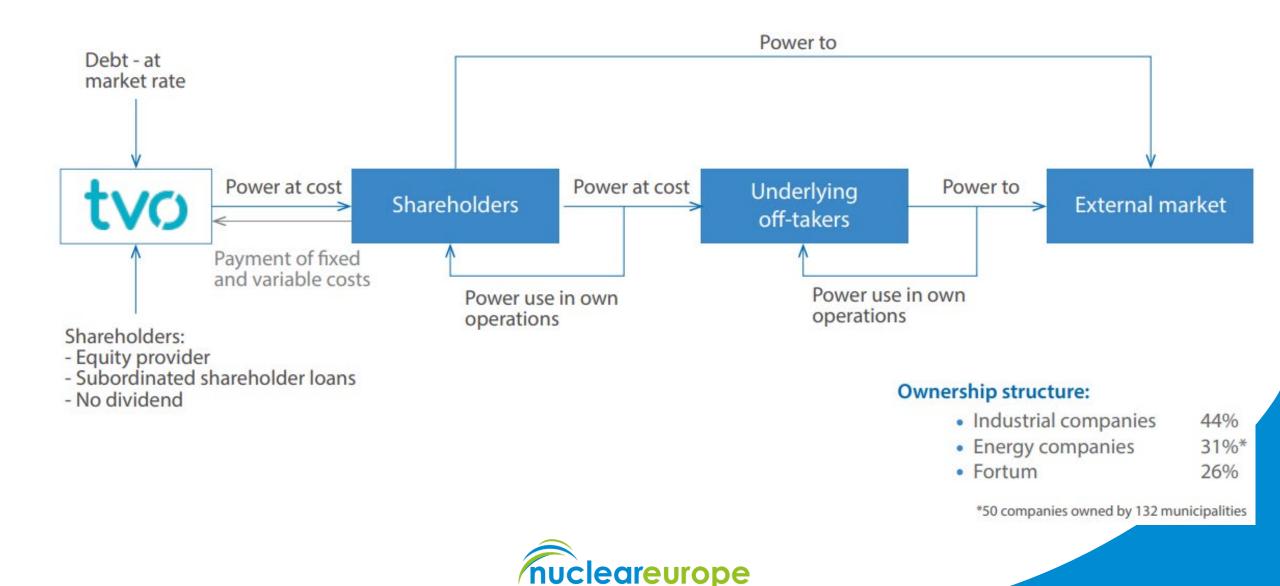
Ownership model and risk transfer dynamic



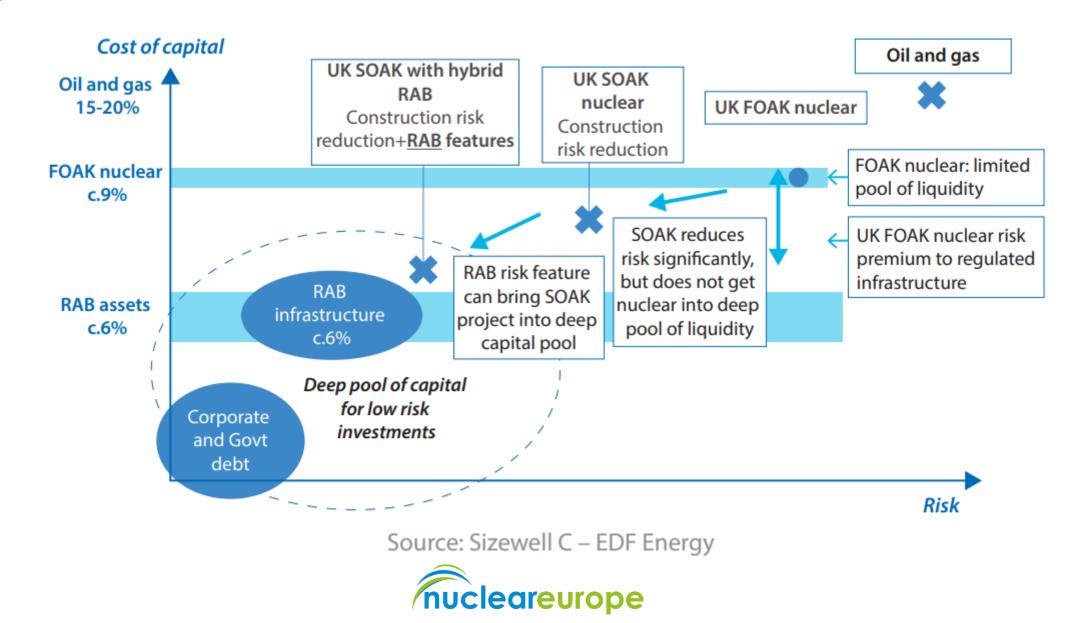
Ownership transferability from Public to Private



Financing Model - Example of Mankala in Finland



RAB based Financing Model - Example of Sizewell, UK



Recommendations

- Both the investment rating and the ability to attract debt for new projects have a central role to play in the financing of new nuclear projects.
- Multiple financing mechanisms are required to access a variety of sources of capital.
- A stable and long-term investment policy framework for nuclear optimizes the distribution and allocation of risks for the sake of the community of stakeholders with a view to ensure consumer value for money. Targeted actions may also need to be developed by policymakers so as to enable a comprehensive investment framework.
- An industrial management framework for nuclear new build projects at the level of project development and ownership level is a key success factor in managing risk.
- An investment policy planning for low-carbon technologies such as nuclear power is critical in driving investments and achieving the climate neutrality goals.



Full report available from here





