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## UNFC for Storage Projects

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# Sustainable Geo-Energy Resources

## Security of Supply

Domestic supply  
Matching supply and demand

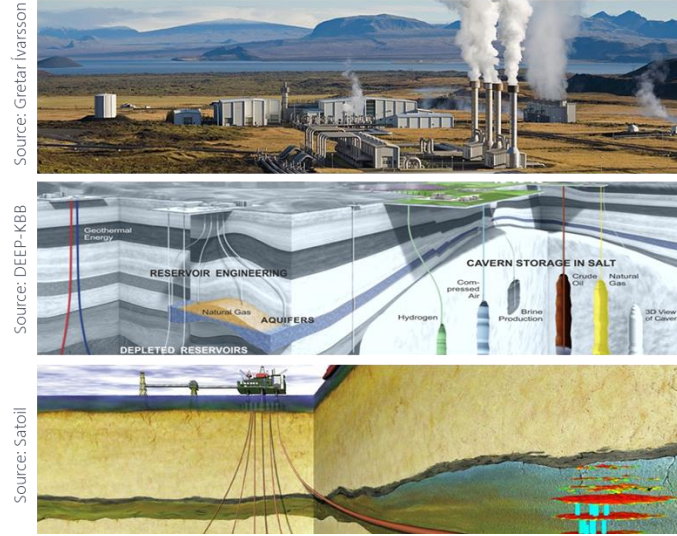
## Energy Trilemma

## Sustainability

Removal GHG emissions  
Low/Zero carbon technologies

## Affordability

Grid services and balancing  
Efficiency Renewables  
Base load heat, lower marginal cost



## GEOTHERMAL

Efficient and sustainable low carbon heating and cooling for built environment, industry and agriculture

## ENERGY STORAGE

Secure and reliable supply of large shares of variable renewable energy and heat & cold

## CO<sub>2</sub> SEQUESTRATION

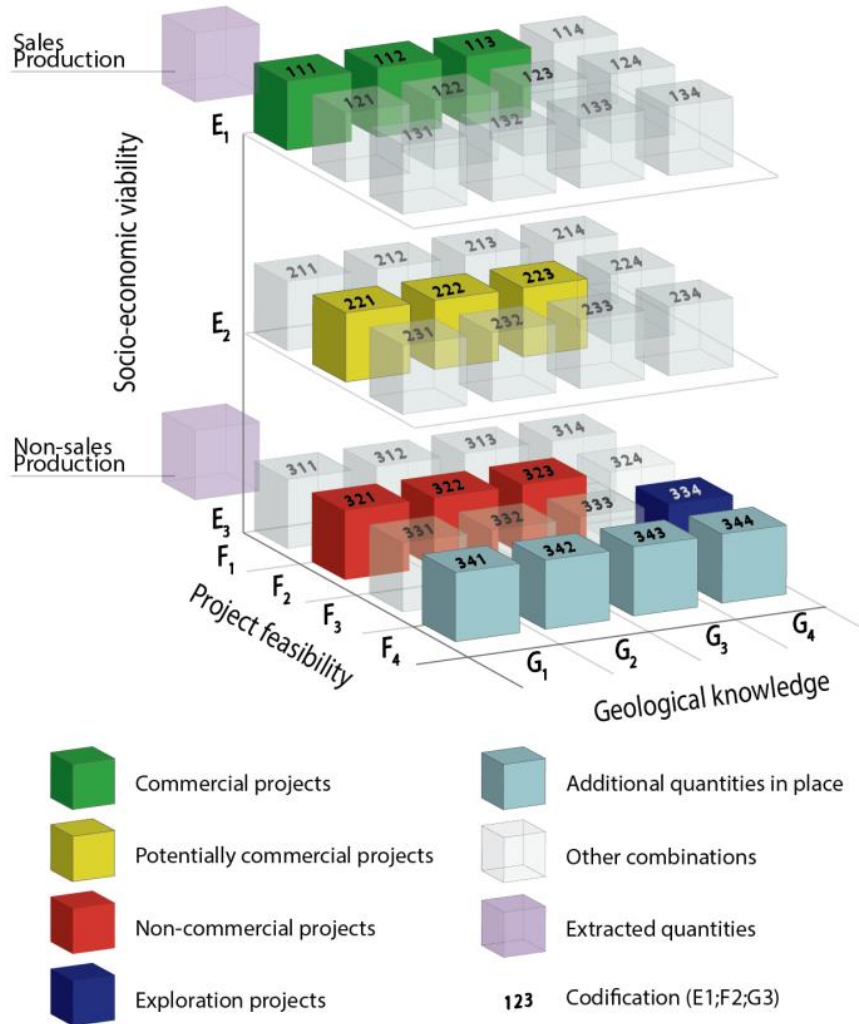
Effective reduction of emissions during and after the energy transition

## Relevant EU Policy documents

- REPowerEU Plan, SET Plan
- Net Zero Industry Act
- Renewable Energy and Energy Efficiency Directives
- CCS Directive



# UNFC for Sustainable Geo-Energy Resources



## Typical challenges:

- High upfront development costs
- Long project development timelines
- Higher risk during early phases of exploration
- Insufficient resource mapping
- Insufficient societal embeddedness

## UNFC-2019 and UN-RMS:

- Compare and monitor different energy resources and dependencies
- Evaluate complete value chain and system integration
- Dependencies (e.g. CRM, reuse of extraction projects, renewables)
- Identify social and environmental barriers
- Identify enablers and de-risking options for prospective resources



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**Thanks for your attention !**

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