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Gestionnaire du Réseau de Transport d'Electricité

Economical aspects for RTE grid



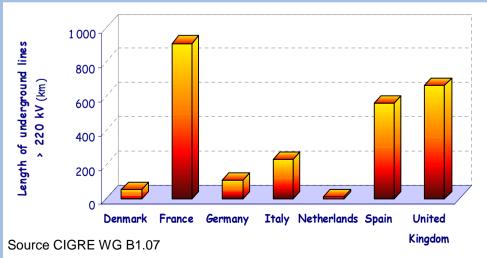


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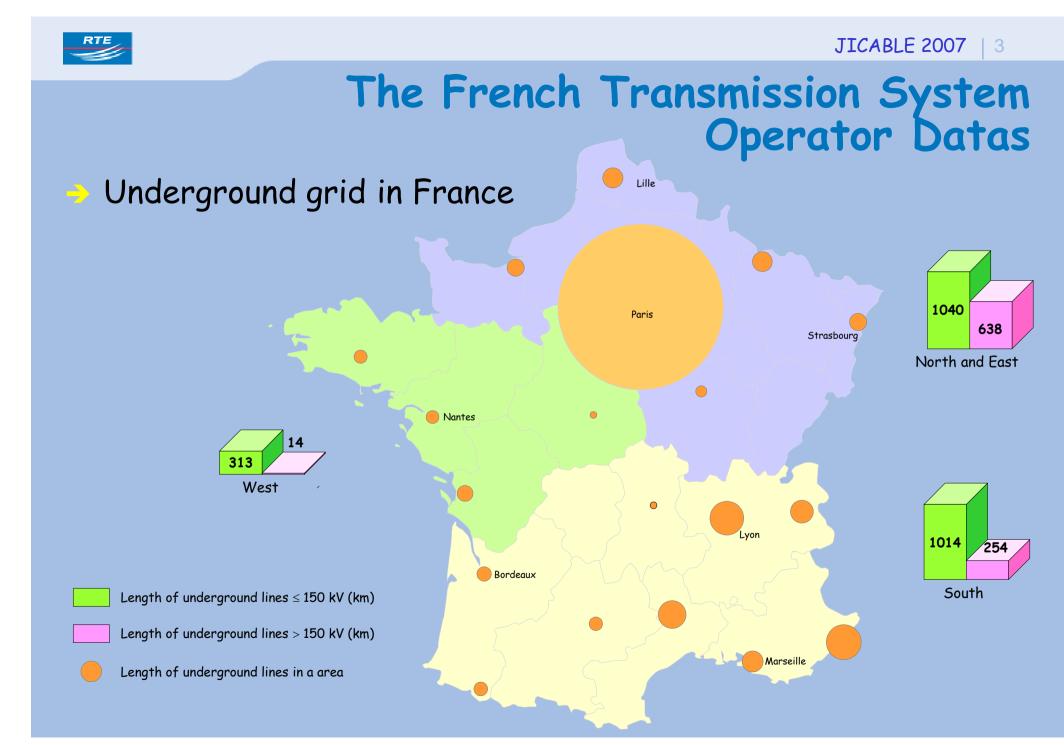
The French Transmission System Operator Data

RTE data

- 8300 employees, including 6000 in operating, maintenance and engineering activities
- 4 billions euros turnover/year
- 600-700 millions euros investment/year
- Underground lines data
 - The underground network (> 50 kV) represents 3260 km
 - RTE EHV grid: 3rd in the world and 1st in Europe with 906 km
 - The 1st utility to recommend extruded PE and Al sheath cable



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Grid development difficulties

Needs of grid development for:

- Connecting new generations
- Increasing national consumption

Context for lines construction :

- Technical difficulties
- Environmental constraints
- Societal problems, side residents opposition
- Long administrative modalities
- Costs



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An "in service experience" about costs

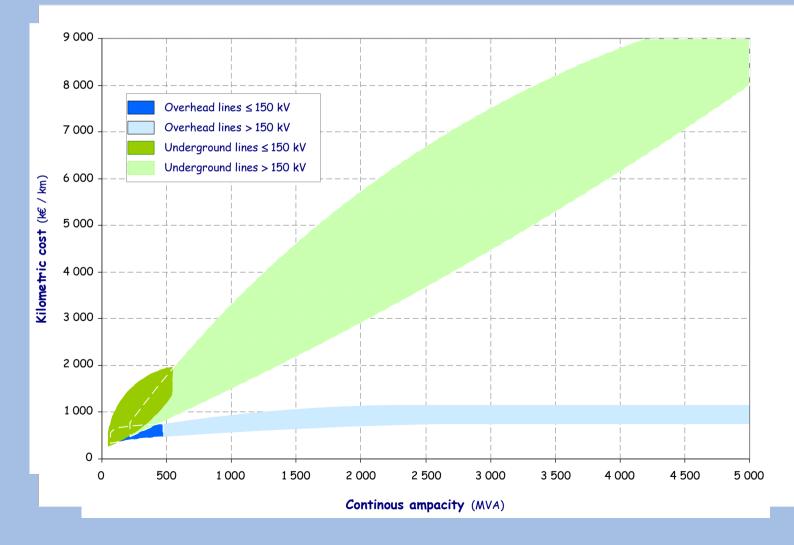
- National "in service experience" method to analyse and to have a better knowledge of costs elements according to:
 - The voltage level
 - The ampacity need
 - The geographical environment
 - The laying conditions

International comparison with other utilities projects

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Results on costs

investment costs (without reactive compensation , and art work)



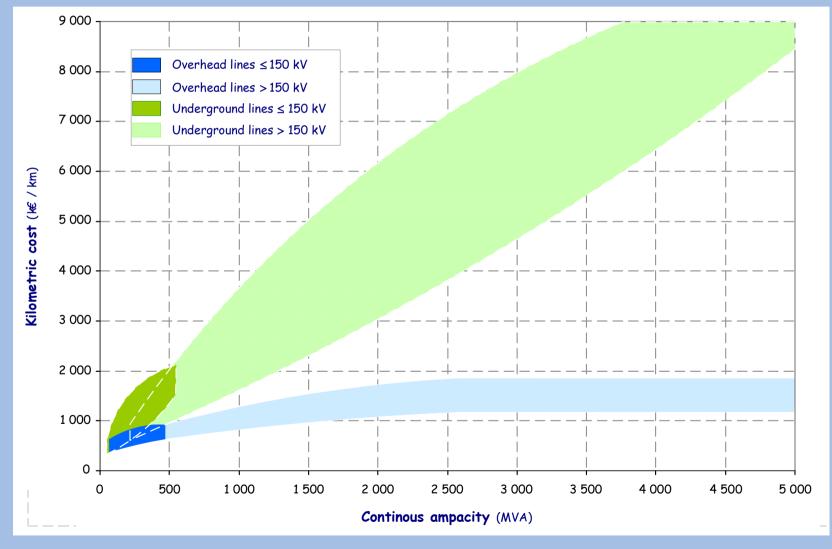
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RTE

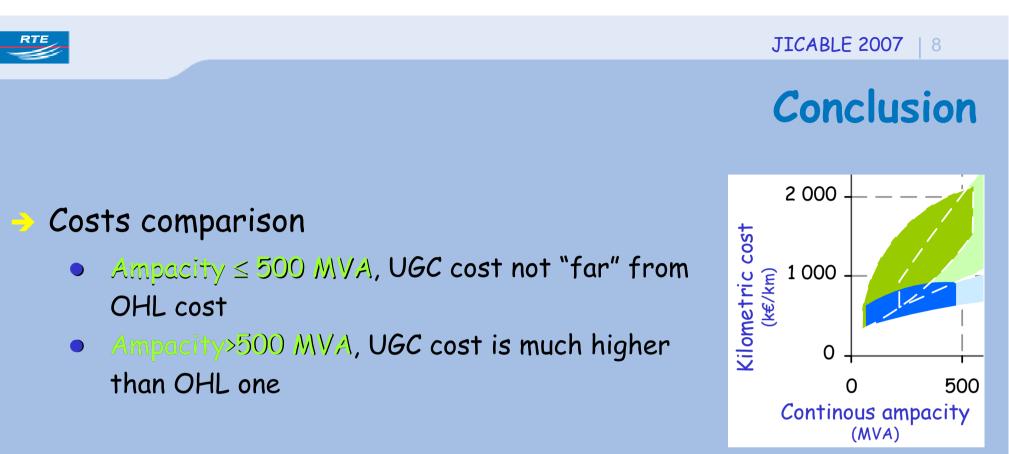
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Results on costs

global costs (without reactive compensation , and art work)



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Underground line is economically interesting when the risk analyses taking in account all the concerns shows the worthiness

- Environmental constraints, societal problems, long delay
- Laying technical problems