



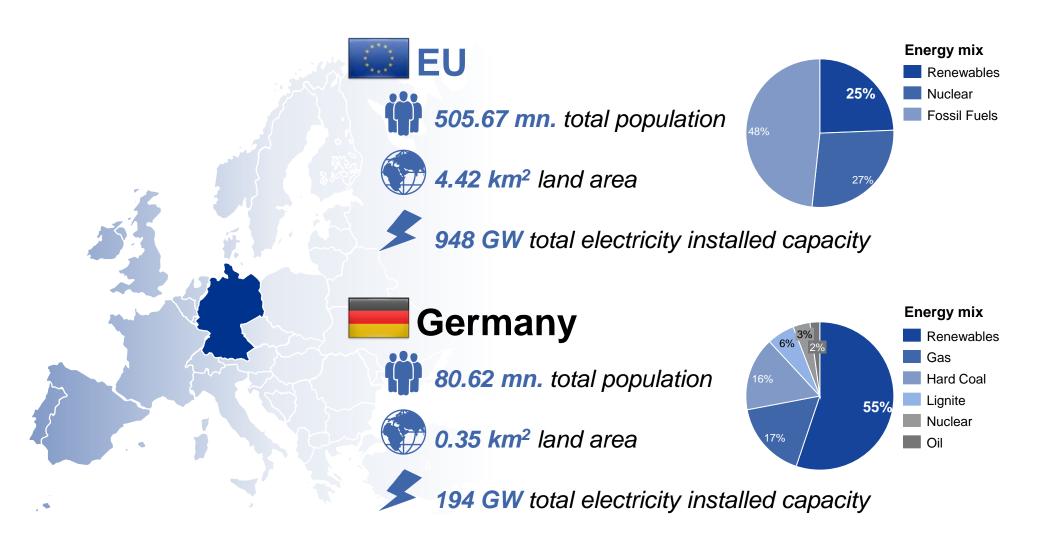
Content



- 1 | Key Facts & Regulatory Challenges
- 2 | Quality of Electric Power Infrastructure
- 3 | Fitting Procurement for Future



Compared to EU, Germany has adopted much larger share of renewables as source of generation for electricity.





Procurement has been recognized as a key market-based instrument to support achieving objectives set by EU Directive 2014/25,

Background of Changes



OUTDATED PROCUREMENT RULES

Regulatory Objectives

Simpler and more flexible procurement procedures (e.g. through utilizing e-Procurement)



ECONOMIC AND SOCIAL TREND

Promotion of **sustainable procurement** (e.g. emission trading, environmentally conscious shop)



REGULATORY UNCERTAINTY

More **legal certainty** (e.g. through the implementation of the ECJ case law)



IMPORTANCE OF PROCUREMENT

Realizing **strategic objectives** (e.g. promoting innovation; supporting SMEs in the EU region)



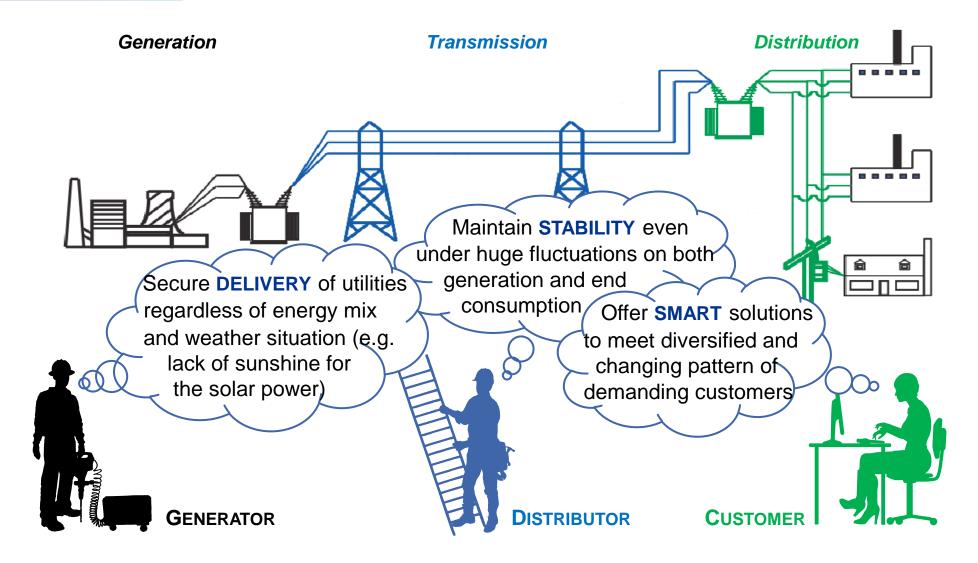
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Quality of electric power infrastructure should be considered from the whole utilities value chain perspective.





New regulations pose more requirements on quality of electric power infrastructure from four key dimensions: cost, innovation, security, and compliance.

"... The most economically advantageous tender from the point of view of the contracting entity shall be identified on the basis of the **price or cost**, using a cost-effectiveness approach, such as **life-cycle costing** in accordance with Article 83, and may include the best price-quality ratio, which shall be assessed on the basis of criteria, including **qualitative**, **environmental and/or social aspects**, linked to the subject-matter of the contract in question..."

COST

- How to meet technical specifications while maintaining the optimal cost-effectiveness?
- How to plan investment for infrastructure projects from life-cycle aspect?

INNOVATION

- How to drive innovation in utilities sector in the Era of Scarcity?
- How to generate more added value from suppliers by extending evaluation beyond only of financial and operational KPIs?

SECURITY

- How to secure security of supply in more volatile world?
- How to ensure delivery stability while shifting from traditional fuels to the renewables?

COMPLIANCE

- How to establish full compliance visibility along the supply chain?
- How to redesign purchasing processes to meet stronger environmental and social requirements?



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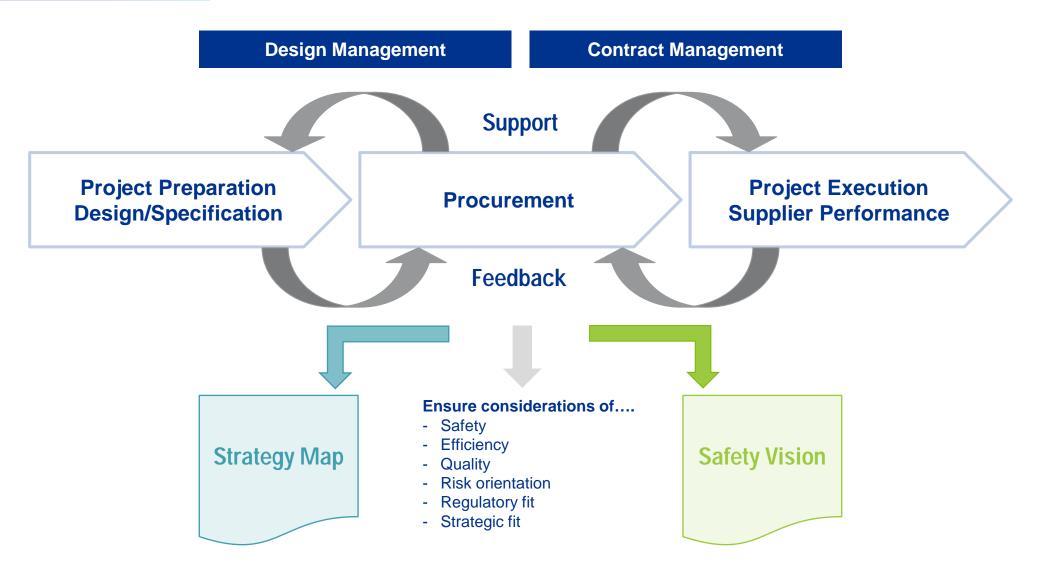


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Strategic procurement is a determining factor within the ordering party's strategy.





Innovation management is a strategic element within electric power infrastructure procurement.



Success stories of strategic procurement

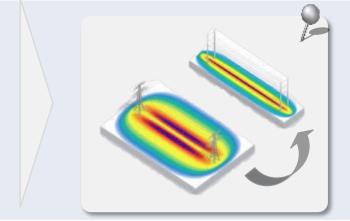


Electricity transmission system operator

New Type of Power Pylon

- Design is less intrusive in landscape
- ✓ Reduces electromagnetic fields
- Cost advantages achieved







Electricity transmission system operator

Innovation

✓ Using high-voltage direct current to connect offshore wind farms on large scale and high capacities.







European public institutions and government entities have introduced various initiatives to foster cost-effectiveness in electric power infrastructure project.

Dimension



/ Impact



Energy Efficiency as Basis

- Both the federal government and several states and municipalities have taken energy efficiency criteria as basis of all procurement activities
- The average guaranteed annual energy cost saving in the framework of the energy saving contracting amounted to about 270,000 bn. €
- For construction and service contracts in infrastructure projects, energy efficiency has become one of the most important factors
- Exemplary project is namely the Berlin airport -> comprehensive specifications



Calls for Competition

- The Utilities Directive promotes transparency in public procurement markets across the EU
- The Utilities Directive requires that tenders are evaluated on the basis of either the lowest price or the most economically advantageous tender
- Calls for competition are EU wide and therefor strong cost pressure on the market
- Potential risk on the quality of infrastructure for big infrastructure projects EU wide

Sources: Self-consolidation from various reports and studies





European public institutions and government entities have introduced various initiatives to foster innovation and security in electric power infrastructure project.

Dimension



/ Impact



Innovation Partnership

- Procuring innovative products, services or works that are not widely available on the market
- Giving prospective suppliers the opportunity to present potential solutions for meeting the brief and carry out further research

- Increasing ease of market access Start-ups and innovative companies
- On the other hand there is a risk of quality of infrastructure if solutions are only developed through further research and are not deliverable



Technical Requirements

- Technical specifications should be included in contract requirements in detailed and standard way
- Tender criterion may include quality, technical merit, functional characteristics, after-sales service and technical assistance etc.

- Ensures safety and quality through very strict rules on technical specifications
- By technical criteria, the procurement doesn't leave much room for lack of quality and damages

Sources: Self-consolidation from various reports and studies



European public institutions and government entities have introduced various initiatives to foster sustainability in electric power infrastructure project.

Dimension

Definition

Impact



Tackling Social Issues

- Considering social aspects amongst other criteria for determining which bid is the most economically advantageous to accept
- Incorporation of social clauses into publicly procured contracts and the maximization of social benefit and value through procurement process

- Ensuring quality in social stability
- Less illegal workers and low pay on construction sights of infrastructure
- Therefor more quality and security



Selection and Evaluation

- Minimum pass/fail requirements plus exclusion grounds for selection
- The Utilities Directive specifies certain grounds (e.g. corruption, criminal organization, money laundry etc.) on which suppliers must be excluded from the procurement process.

- Compliance ensures the functionality of infrastructure
- Big companies such as Siemens will be excluded in cases of corruption or similar pass/fail requirement

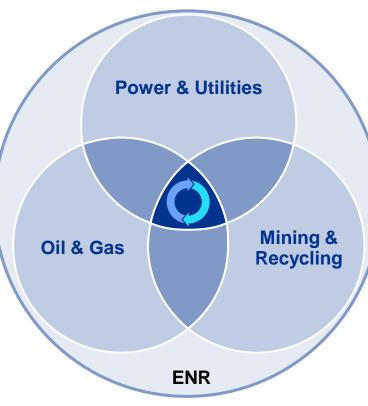
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