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and Climate Action

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CONSULTANCY WORKSHOP

Capacity development activities for Vietnamese public institutions with
duties and functions on Energy Efficiency

Energy-Efficiency and How to Get There: The Role of Capacity Development Through Collaboration

Christopher N. Müller

**– Senior Manager Energy & Climate Policy –
Electro and Digital Industry Association**



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Christopher N. Müller – Energy & Climate Policy

- MSc. Business & Development Studies (Copenhagen Business School)
- Advisor at Business & Industry Advisory Committee to the OECD (*Paris*)
- Representation of Electronics MNE to the European Union (Brussels)
- Senior Manager Energy & Climate Policy for Electro and Digital Industry (Berlin)
 - Green Electrification
 - Green Hydrogen
 - Energy Market Design/ Energy Prices
 - Energy-Efficiency
 - ...



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ZVEI – Electro and Digital Industry Association

Approx. 160 Employees

> 5.000 Members (approx. 90% of employees of E&D industry in Germany)

Almost 900.000 employees in GER + 800.000 globally

> 30% of national industry innovation in or enabled by our industry

20 Billion € R&D Budget annually

6 Billion € are invested annually

Revenue: > 180 Billion €



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Who is the Electro and Digital Industry?

Technology provider enabling **green, efficient** and **digital** solutions

For Industry, Mobility, Buildings and more ...

Multinational Enterprises and Hidden Champions

Components for EE:

- Pumps
- Fans
- E-Motors/ Speed drives
- Lighting
- Semiconductors
- Batteries
- Control cabinets
- ...



**Industrial and process
automation**



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Agenda: Energy-Efficiency

1)

**Relevance
&
Instruments**

2)

**Capacity Development:

- Energy Efficiency
Networks in Germany**



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1) It's the Energy, stupid!

Every unit of energy not consumed is:

- Money saved by consumers (firm-level view)
- Money saved by the system (economy-level view, dual dividend)
- Saved CO₂-emissions (environmental view)
- Reduced energy consumption ((geo-)political view)

There are economic, political and environmental reasons for the efficient use of energy!



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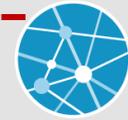
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1) Instruments for Energy Efficiency

- Energy consulting for medium-sized businesses
- Competitive tendering program – STEP up
- ...
- Energy audit obligations
- EU Ecodesign Directive
- ...

- Initiative Energy Efficiency Networks
- ...



INITIATIVE ENERGIEEFFIZIENZ NETZWERKE

- EU emission trading
- ...

- Electricity tax
- ...

- Broad-based and well networked energy research



Financial assistance



Quantitative measures



Regulatory measures



Price measures



Information & advice



Research & development



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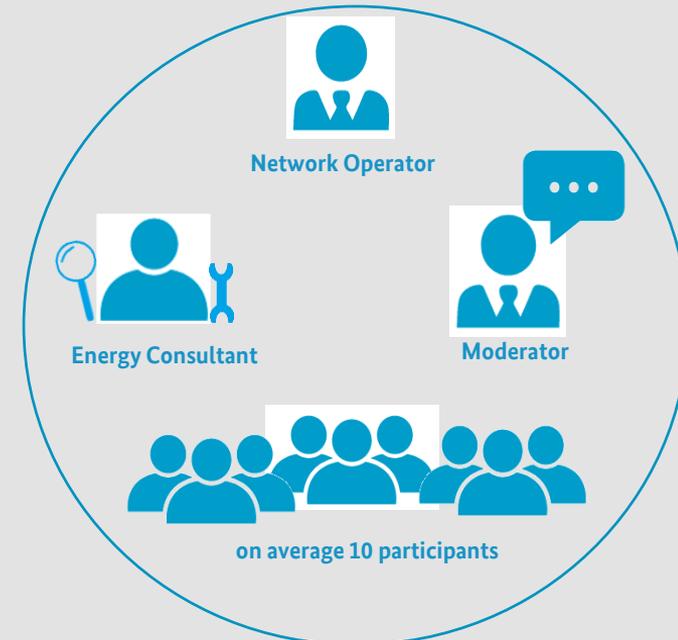
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2) Energy-Efficiency Networks in Germany

- Energy Efficiency Network (EEN) is a voluntary, systematic, goal-oriented and non-bureaucratic exchange of experiences and ideas between its different **participants (companies, company-sites, municipalities, etc.)**.
- Participants **define an energy-saving goal** for the entire network. This goal is based on the addition of the single energy-saving goals of each participant based on **energy audits** or similar procedures.
- For a successful exchange and to obtain the best results, the network activities are followed and supported by experts (**operators, moderators and energy consultants**) during the entire running time (usually 2-3 years).





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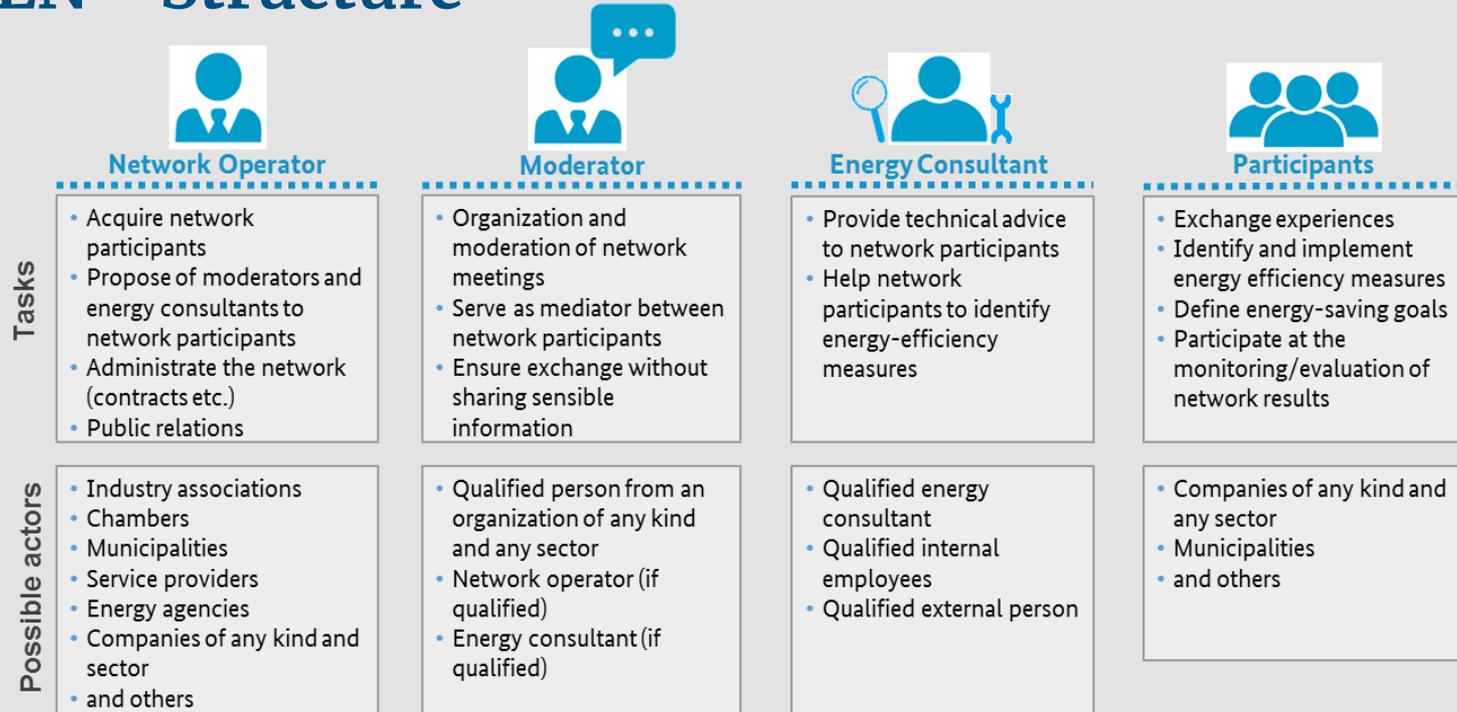


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2) EEN – Structure





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2) EEN Initiative with broad Stakeholder support

- 2014 - 2020: Initiative Energy Efficiency Networks (IEEN) → first period
- 2021 – 2025: Initiative Energy Efficiency and Climate Protection Networks → second period
- Broad industry support:





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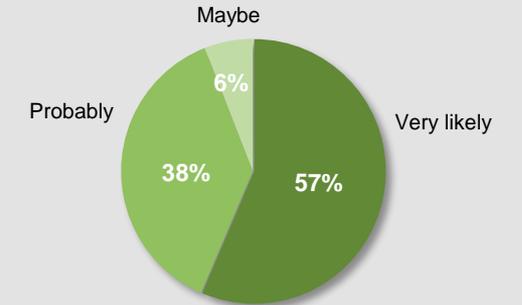
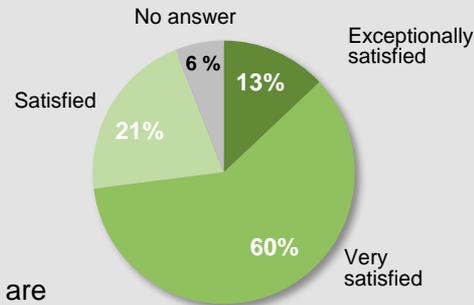
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2) EEN in Numbers

- > 300 EENs (first period, 2014 - 2020)
- On average per EEN:
 - 11 participating companies
 - 41 energy-efficiency measures implemented
 - 31.000 MWh saved annually
 - 12.000 t CO₂ saved annually
 - 111% goal achievement

73% of companies are exceptionally or very satisfied with their network



95 % of companies would recommend network participation to other companies

Survey results among EEN-participants (2016)



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Thank you for your attention

Christopher Müller
– Energy & Climate Policy

christopher.mueller@zvei.org