

CIGRE C3

Power system environmental performance



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Welcome!

- Who am I?
- What is C3 & urgency
- Working Groups
- Key Take Aways
- Preferential Subjects
- Future of C3 NL
- Sendai 2023 Colloquium



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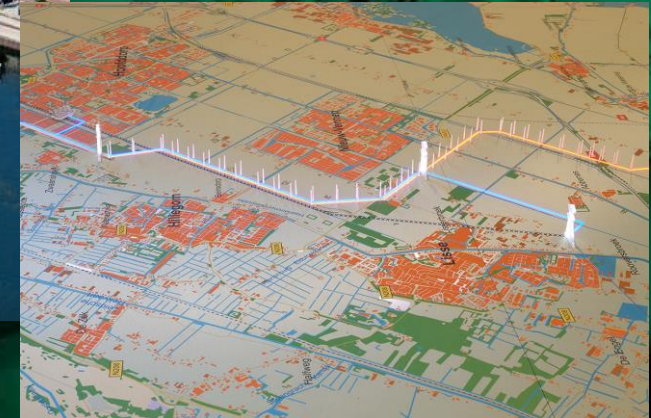


Who am I?



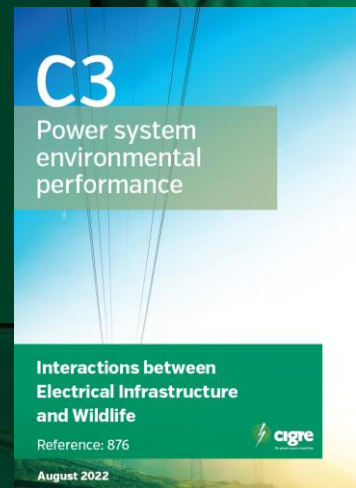
What is CIGRE C3 & urgency

- Asset management i.r.t. surroundings/environment (ruimte)
- Environmental developments and energy companies (milieu)
- Stakeholder engagement and public acceptance (mens)



Working Groups

- AG C3.01: EMF & Human Health (advisory group)
- WG C3-09: A Corridor Management
- WG C3.12: Methodologies for Greenhouse gas inventory and reporting for T&D utilities
- WG C3-14: Impact of Environmental liability on transmission and distribution activities
- WG C3-15: Best environmental and socio-economic practices for improving public acceptance of high voltage substations
- WG C3-16: Interactions between electrical infrastructure (overhead lines and substations) and wildlife
- WG C3-17: Interactions between wildlife and emerging renewable energy sources and submarine cables
- WG C3-18: Eco-friendly approaches in transmission and distribution
- WG C3-20: Sustainability goals in the electric power sector
- WG C3-21: Including stakeholders in the investment planning process
- WG C3-22: Vegetation management and substations
- WG C3.23: Eco-design methods for TSO/DSO under environmental transition
- JWG B1/C85: Environmental impact of decommissioning of underground & submarine cables



Key Take Aways

AG C3.01: EMF & Human Health (advisory group)

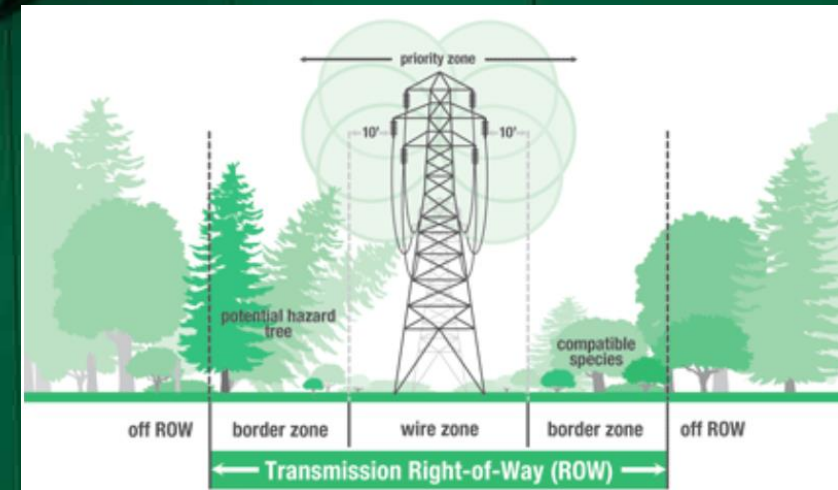
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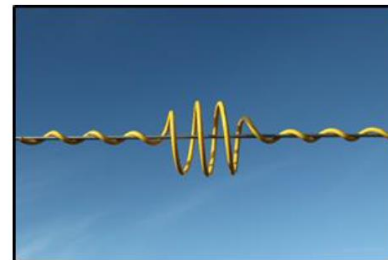
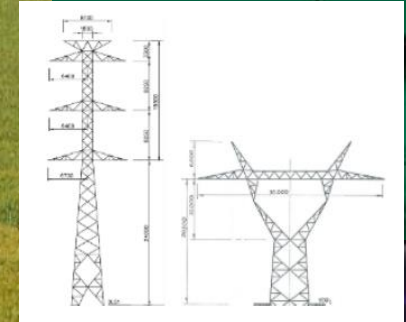
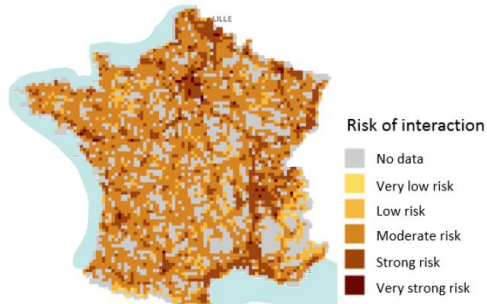
Power system environmental performance

Reference: 876

August 2022



- Little (international) legislation & knowledge gaps
- Impact & factors
- What can we do?



Preferential subjects*

PS1 : Public acceptance and stakeholder engagement in power systems - generation, transmission & distribution infrastructures.

- Experiences in dealing with public acceptance of new & existing infrastructures
- Strategies, tools, indicators and methods that allow an effective stakeholder engagement
- Role of mitigation, compensation and offsetting measures (permitting processes)

PS2 : Climate change and impact on power system, an holistic approach.

- Potential variations in the climate variables in different scenarios and impacts on power infrastructure and the system operation
- Risk assessment methodologies & experiences
- Adaptation measures: lessons learned & criteria to be considered for the future and existing infrastructures

PS 3: Sustainability starting for the supply chain

- Inclusion of eco-design and circularity criteria: solutions to reduce impact along the whole life of the assets
- Green procurement: experiences and methodologies to incorporate sustainability aspects in tendering decisions
- Decarbonization: accounting scope 3 emission and reduction strategies

*exact wording is subject to change, yet essence will remain the same

Future of C3 NL

- Open to new members
- Not just of TSO/DSO
- Driven by enthusiasm to further develop knowledge of power system environmental performance



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- B2, C3 & C4
- Recent Overhead Transmission Lines Technology and Environmental measures



Dank!



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C3.15

