

Technical Dimensions of Power Interconnection

[The 4th NEA Energy Security Forum]

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◆ PSI Meaning & Worldwide Status

◆ Present Status & Future Prospects in NEA

◆ Technical Points : Analysis Sample

◆ Barriers & Solutions

◆ Conclusions

<Keyword & Notice>

- ◆ Meaning of PSI in NEA Regions : Roadmap for Sustainable Peace
- ◆ Status Quo : Only Weak Interconnection in NEA Reason
- ◆ Many Interconnection Scenarios , Multilateral & Bilateral in NEA
- ◆ HVDC Alternatives : Different Frequency & Submarine Issues
- ◆ Energy Security & Sustainability & To be determined Topics
- ◆ Need Feasibility Assessment : Technical/Economic/Marketability
- ◆ Promotion & Suggestion for Realizing ASG in NEA Region

<Backgrounds>

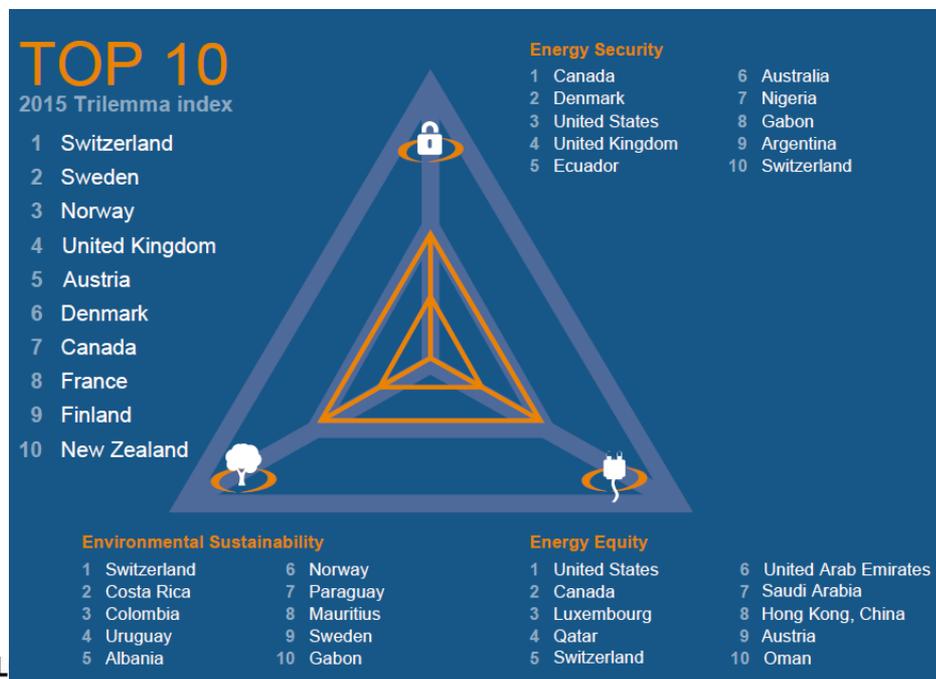
◆ NEA-PSI & ASG(Asian Super Grid)

- NEA-PSI (North East Asian - Power System Interconnection)
- All NEA countries are island independent power system until now
 - Need to the electricity co-operational policy
- NEA power system have many difficulties, which means the necessity of alternatives ...
 - Very rich or poor in natural resources
 - High increasing rate of load caused by economic growth
 - High cost for power system planning and operation
 - Environmental protection : NIMBY phenomena & GHG Problem
 - Barriers for co-operation : Energy Security & Political tension

<Energy Trilemma Index (*WEC)>

*) "Used by permission of the World Energy Council"

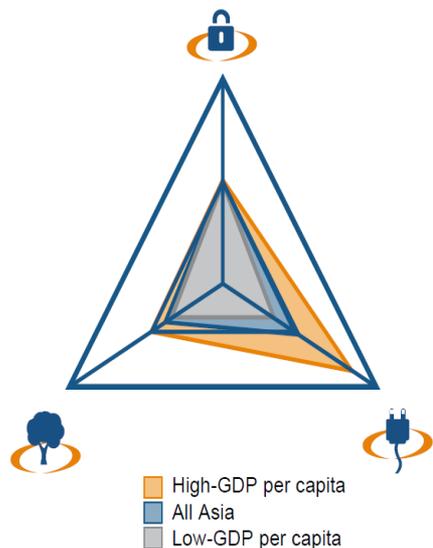
- ◆ **Energy security** : Effective management & reliability of energy infra
- ◆ **Energy equity** : Accessibility and affordability of energy supply
- ◆ **Environmental sustainability** : Achievement of supply from renewable and Demand-side energy efficiencies



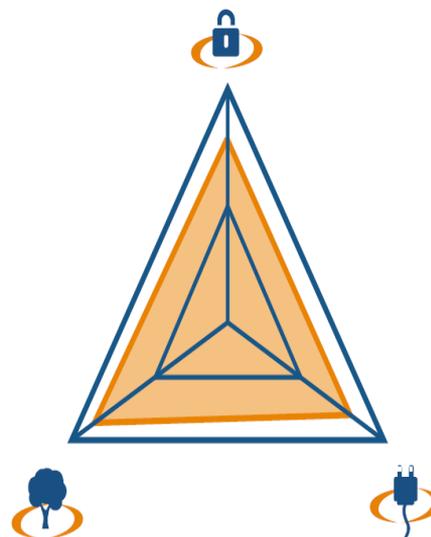
<Energy Trilemma Index (*WEC)>

*) "Used by permission of the World Energy Council", For comparison ...

- ◆ West Europe : No-Trilemma, Fair & Equity Developed for 3 Factors
- ◆ Asia : Only Energy Equity Developed & Lower Security, Environment Sustainability



Low-GDP countries	High-GDP countries
Armenia	Australia
Azerbaijan	Hong Kong, China
Bangladesh	Japan
Cambodia	Korea (Rep.)
China	Malaysia
Georgia	New Zealand
India	Singapore
Indonesia	Taiwan, China
Kazakhstan	
Mongolia	
Nepal	
Pakistan	
Philippines	
Sri Lanka	
Tajikistan	
Thailand	
Vietnam	

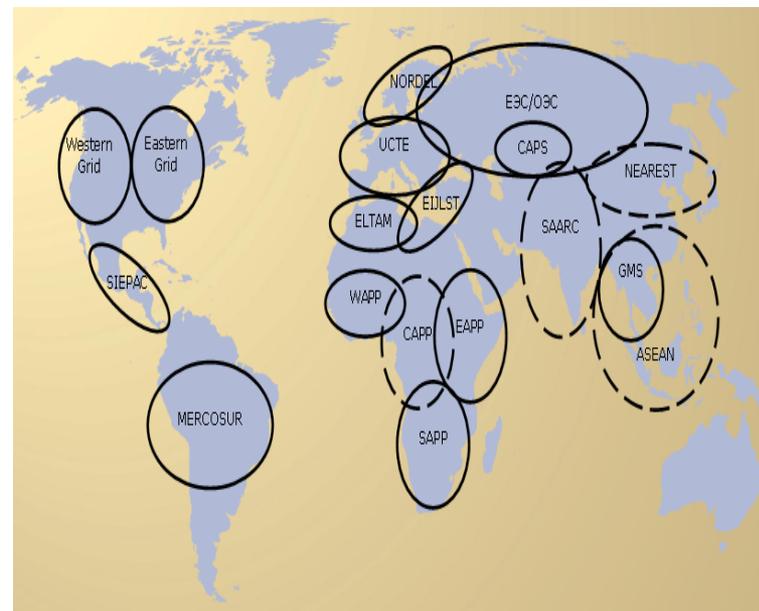


Countries	Index rank	Balance score
Switzerland	1	AAA
Sweden	2	AAA
United Kingdom	4	AAB
Austria	5	AAB
Denmark	6	AAB
France	8	AAB
New Zealand	10	AAB
Netherlands	11	BBB
Germany	13	BBB
Spain	15	AAB

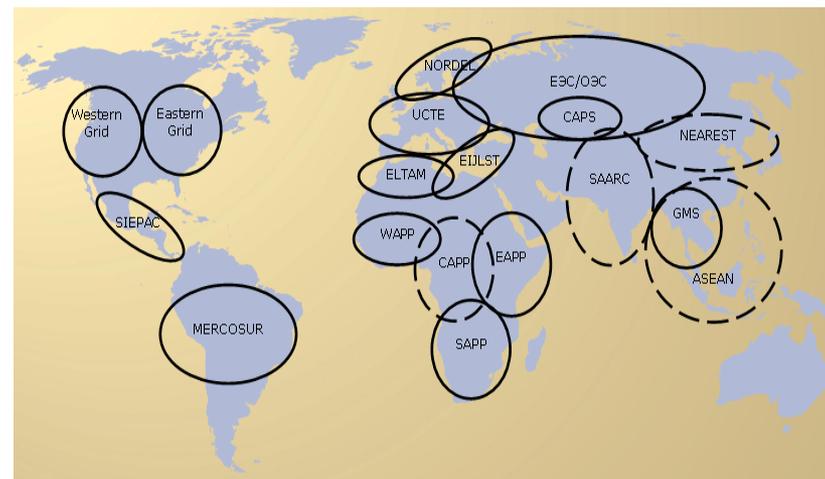
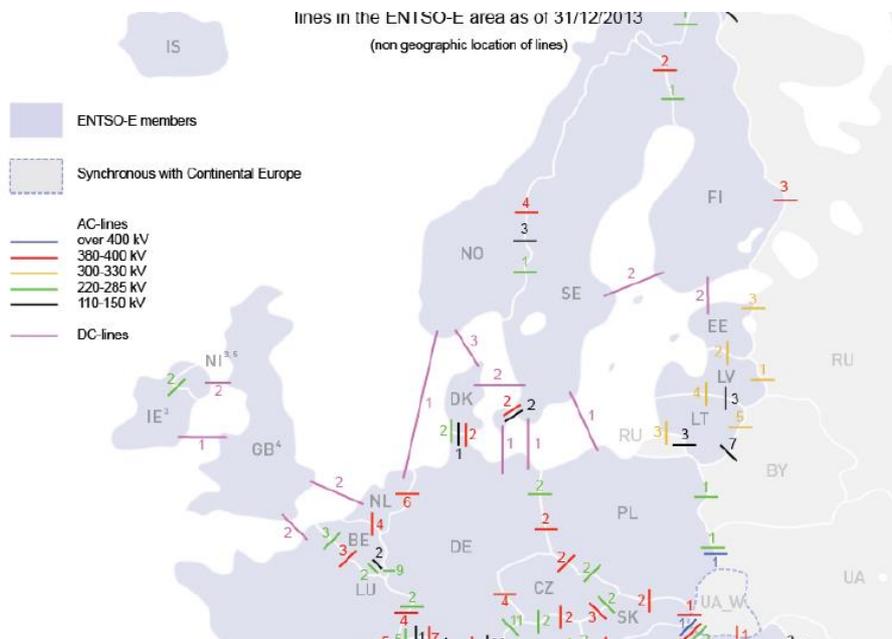
<Promotions on PSI & CBT in NEA Region>

◆ Beyond NEA, Toward Worldwide ...

- Trans Northeast Asian Network
"RU-MO-CH-NK-SK-JP"



<World Trends for GEI Cooperation>



预览已结束，完整报告链接和二维码如下：

https://www.yunbaogao.cn/report/index/report?reportId=5_1762



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