

Process towards TYNDP 2012 and Regional Investment plan 2012 at Baltic Sea region

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Regional stakeholder workshop Stockholm 24th March, 2011
Maarit Uusitalo convener Regional Group Baltic Sea



The 3rd Package defines the TYNDP

Non binding
Every 2 years

EU-TYNDP

- Generation adequacy outlook 5 yr up to 15yr (→ 2025!)
- modelling integrated networks
- Scenario development
- Assessment of resilience
- Based on reasonable needs of system users
- Identify investments gaps
- Review barriers to increase cross border capacities arising from approval procedures

Regulators check consistency

Binding for ITO
Every year

Nat. TYNDPs

- Existing and forecast supply demand
- Efficient measures to guarantee adequacy & SoS
- Indicate main transmission infrastructure to be built
- Based on reasonable assumptions about evolution of generation
- Supply consumption and exchanges

Build on nat. gen. adequacy outlooks and invest. plans

Take into account

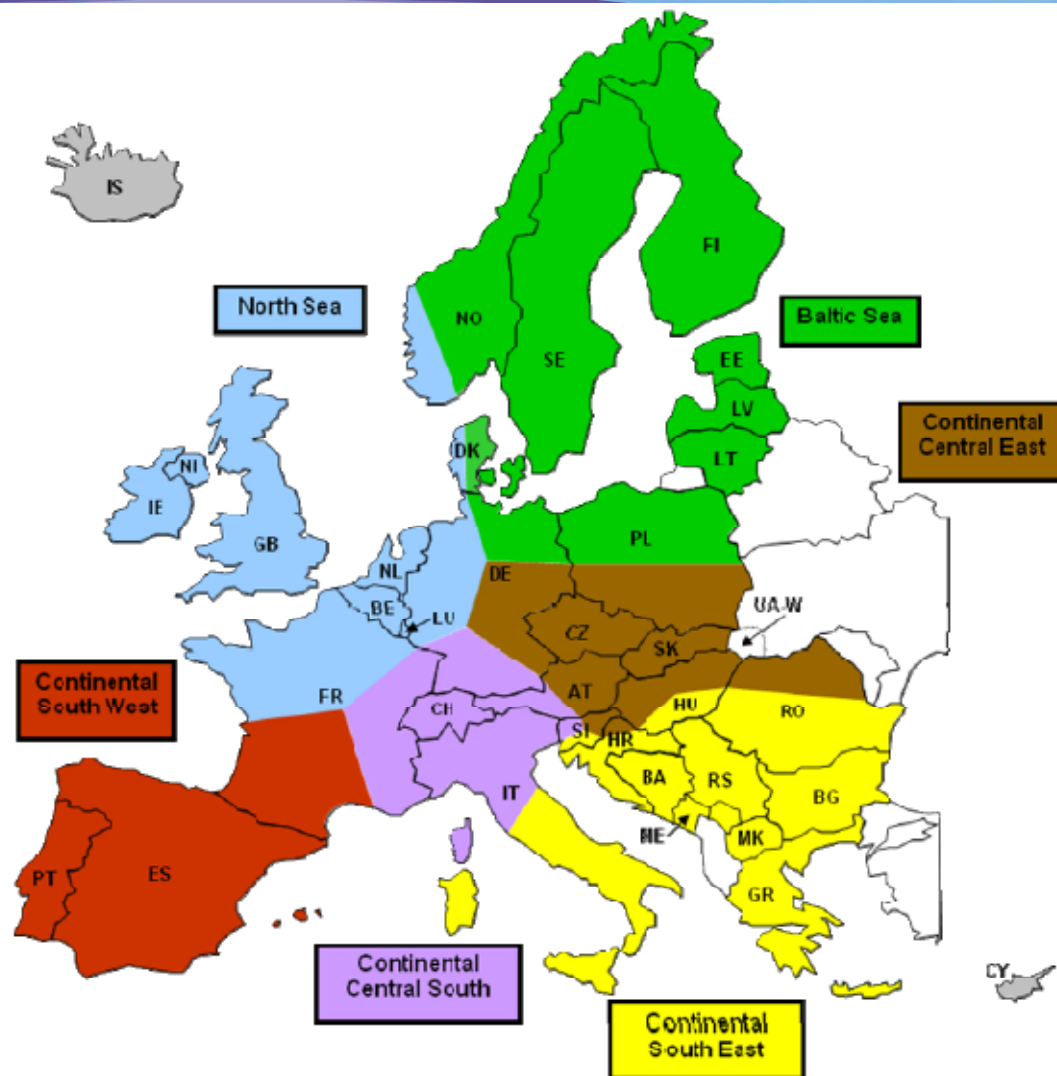
Non binding
Every 2 years

Regional Investment Plans

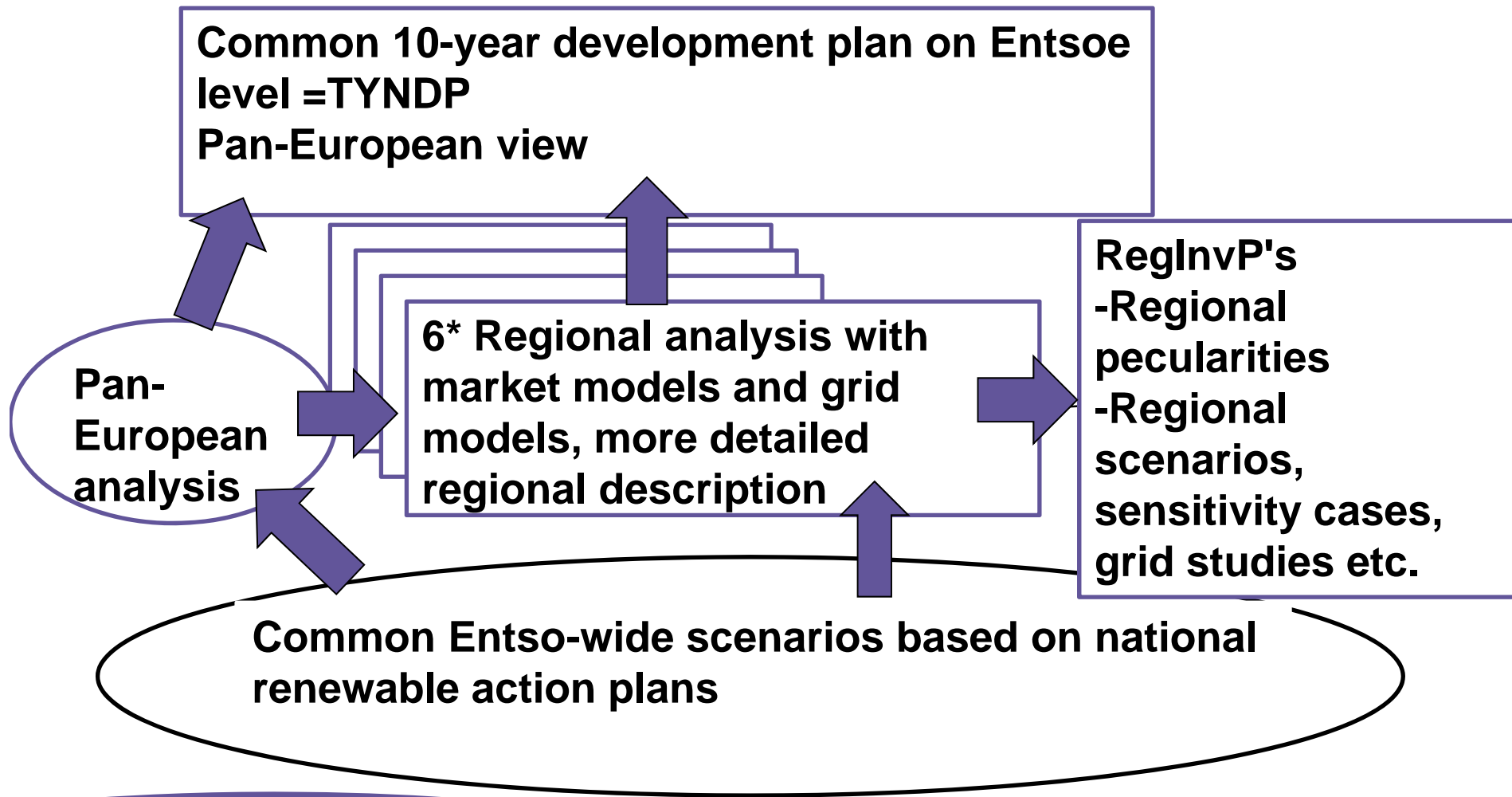
Take into account

Take into account

Entso-e Regional Groups for system development



Common scenarios as basis



8 documents

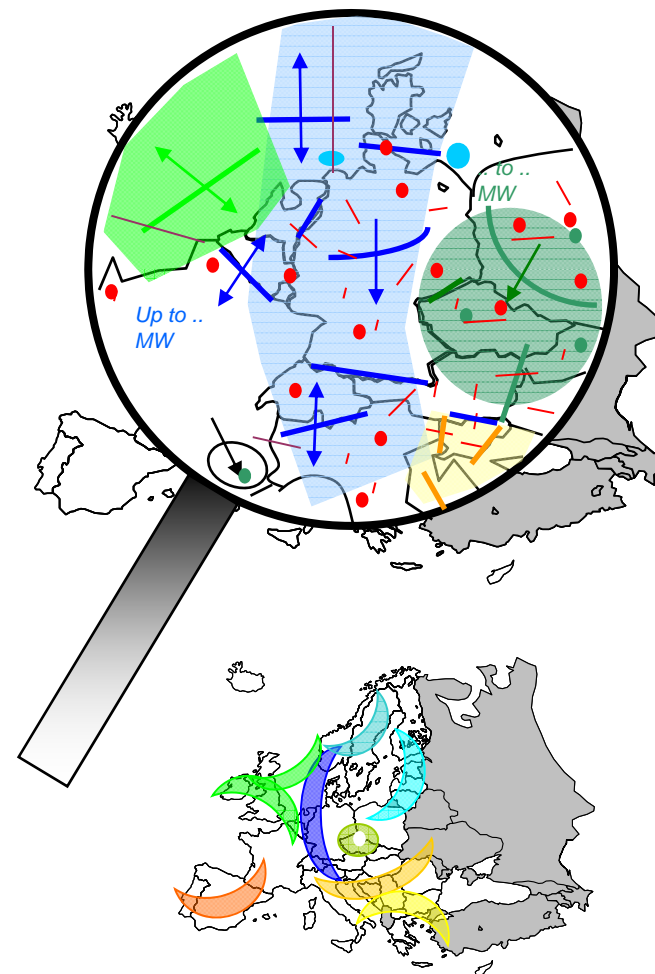
- About 50p each, complementing each other
- Scenario outlook & adequacy forecast report
 - “SOAF”
- 6x Regional Investment Plans reports
 - Detailed grid development issues, reg. level
- 10-year Network Development Plan report
 - Synthetic compilation, pan-European level

From TYNDP 2010 to TYNDP 2012 projects?

- 500 projects in TYNDP 2010
 - The sole level of detail in tyndp10
 - ... helping increasing grid transfer capability of...

Grid Transfer Capability

- ... # 100 boundaries / Δ GTC
 - the main level of detail in tyndp12
 - clustering the tyndp10 projects
- # 10 corridors/concerns?
 - 1 boundary possibly contributing to 1 concern (or more, or none)



RgIP & TYNDP 2012 – The reports' structure

Regional Investment Plan

1. Executive summary
 2. Introduction
 3. **Assess TYNDP 2010** (reg. focus)
(+ details / project in appendix)
 4. **Specific RG methodologies**
 5. **Scenarios** (regional focus)
 6. **Investment needs**
Present situation (NTC 2010), G/L dev. & tech. needs + Results of market studies (expected reg. p. flows maps)
 7. **Investments projects**
of European significance (& others if relevant) mid-term, long-term
Economic assessment (opt.)
 8. **Transmission adequacy** (map)
 9. **Environmental assessment** (optional, some macro-indicators)
 10. **Resilience assessment**
 11. **Conclusion**
- + Appendices (incl. table of projects)

Common
methodologies

Aggregated results

Pan-European
consistency
checks

Ten Year Development Plan

1. Executive summary
 2. Introduction
 3. **Assessment of TYNDP 2010**
 4. **Methodology**
 5. **Scenarios** (synthesis from SAF)
 6. **Investment needs** (synthesis)
pan-E NTC 2010, G/L dev. & technical
needs + expected power flow maps
 7. **Investments projects** (synth.)
of European significance only
MT/LT
 8. **Transmission adequacy** (pan-E map)
 9. **Environmental assessment** (optional, macro-indicators)
 10. **Resilience assessment**
 11. **Conclusion**
- + Appendices (incl. table of projects)

Which investment projects to be included for TYNDP?

Projects of European significance

- a set of EHV assets contributing to same grid transfer capacity matching the following thresholds:

EC Reg. 2010/617 on
notification of
infrastructures

- main equipment > 220 kV for OHL AC and > 150 kV else
- Grid Transfer Capability Increase either
 - enabling > 500 MW of additional NTC; or
 - enabling or securing output of > 1 GW/1000 km² of generation (new and/or existing); or
- securing for >-10-year load growth for an area > 3 TWh/yr.

EC 2009/72

RgIP & TYNDP 2012 – External deliverables

