



Issues with the TYNDP scenario development

Sector Coupling modelling

- **Issue:- Lack of comprehensive sector coupling modelling framework**
- What is needed & why :-
 - TYNDP scenario leads to critical infrastructure decisions and hence the modelling should be as comprehensive as possible.
 - The lack of proper sector coupling modeling especially of both gas to power & power to gas streams is a major shortcoming, as it does not allow to properly assess what could be the synergies btw. power and gas systems
 - Power-to-gas and gas-to-power flows should be better described and highlighted, notably when it comes for 2- week cold snaps, extreme daily peaks and “kalte Dünkelflaute” scenarios modelling. This is required to assess the supply/demand balance of each system but also for identification of both adequacy issues or network congestion constraints (for which infrastructure investments needs may be identified).
 - TYNDP 2022's expansion model focused on electricity & H2 systems. The future development of methane system is not well represented. This would undermine the flexibility and cross-commodity synergies stemming from such a coupling.
 - The demand for methane (progressively shifting from nat.gas to biomethane and synthetic methane) should be the result of the interaction of market & technology and not a narrative driven outcome.
 - This is to be improved and will need enhanced coordination btw ENTSO-E & ENTSO-G and also engagement with key stakeholders (for input on key parameters).

Stakeholder Involvement- DSOs

- **Issue:- Lack of recognition of greater role of DSOs in the TYNDP process**
- **What is needed & why :-**
 - DSOs have an overview on the sources connected to their grid (EV, DER, heat pumps) and the flexibility solutions (batteries, DSR, P2G etc).
 - They can provide useful assumptions about peak demand and the impact of flexible demand
 - Involve DSOs closely in the TYNDP process starting from scenario building exercise including the selection of the PCIs.
 - At the same time, ENTSOs must ensure consistency with existing processes pertaining to DSO/TSO coordination existing at national level to avoid any duplication of work