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**Hydropower Investment
Promotion Project (HIPP)**

GEMM 2015 GSE Investment Planning

July 2013



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Hydropower Investment Promotion Project (HIPP)

Key Issues

- **EU Compliance**
- **Methodology of Transmission Investment Planning**
- **Planning Set Forth in Grid Code Chapter 3**
- **Investment Planning for GEMM 2015**
 - Existing Status
 - Transition to GEMM 2015
 - Target Framework for Investment Planning



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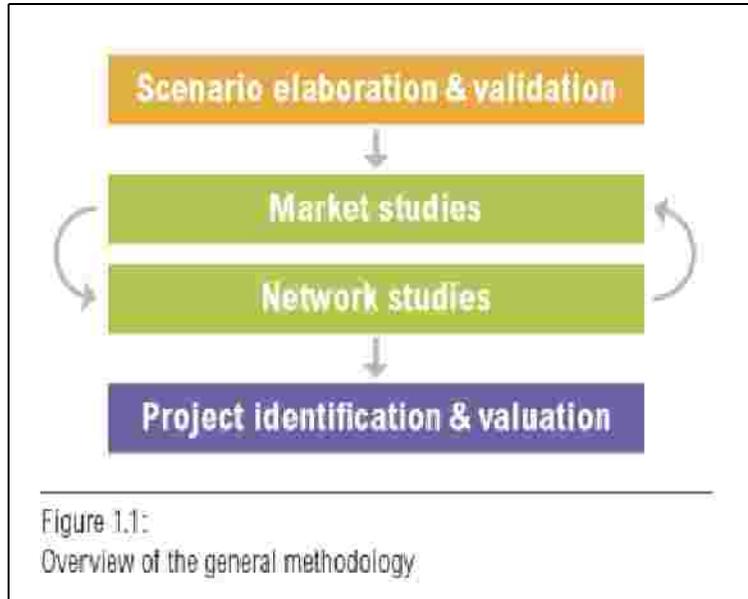
EU Requirements re: Investment Planning

- Directive 2009/72
 - TSO make and submit 10-year network development plan with planned identified investments and new needed.
 - National energy action plans, ensuring system can meet reasonable demand through investment planning
 - National regulator monitor development plan
- Regulation (EC) No 713/2009 creates ACER
- Regulation (EC) 714/2009
 - Creates ENTSO-e, calls for harmonized network codes
 - “ENTSO-E shall adopt a non-binding Community-wide 10 year network development plan, including a European generation adequacy outlook, every two years.”



Methodology of Transmission Investment Planning

TYNDP



Implementation to Financing





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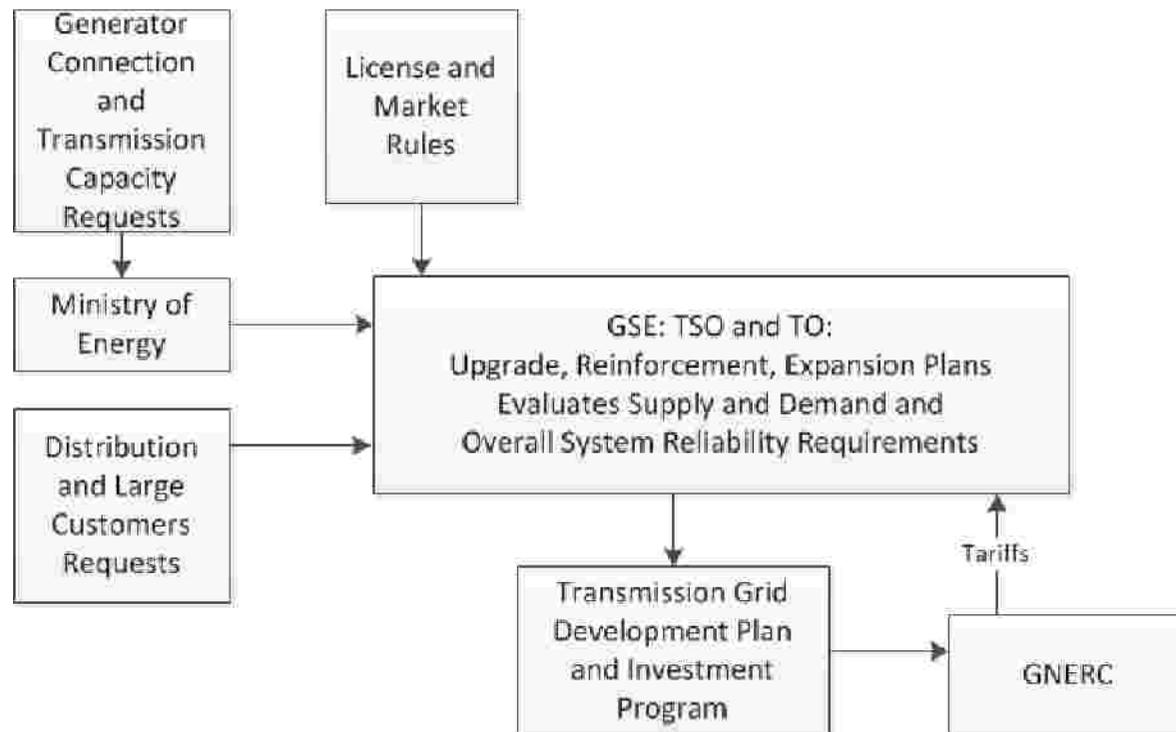
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Planning as Set Forth in Proposed Georgia Grid Code Chapter 3; Consistent with Energy Community

- Overall and regional characteristics of the Transmission Grid;
- Evaluation of the current performance of the Transmission Grid, including comprehensive analyses of any portions of the transmission system that do not meet planning criteria;
- Transmission capacity for transmission lines at or above 110 kV;
- Power flows at maximum load on the Transmission Grid;
- Load at connection points of Transmission Users at maximum load;
- Levels of short-circuit currents in substation buses at or above 110 kV;
- Transmission and transformer losses;
- Proposed Transmission Grid Development based on load growth;
- Proposed Transmission Grid Development based on new generating units;
- Proposals for construction of new interconnection transmission lines and substations;
- Scheduled power interchanges with external (foreign) entities.

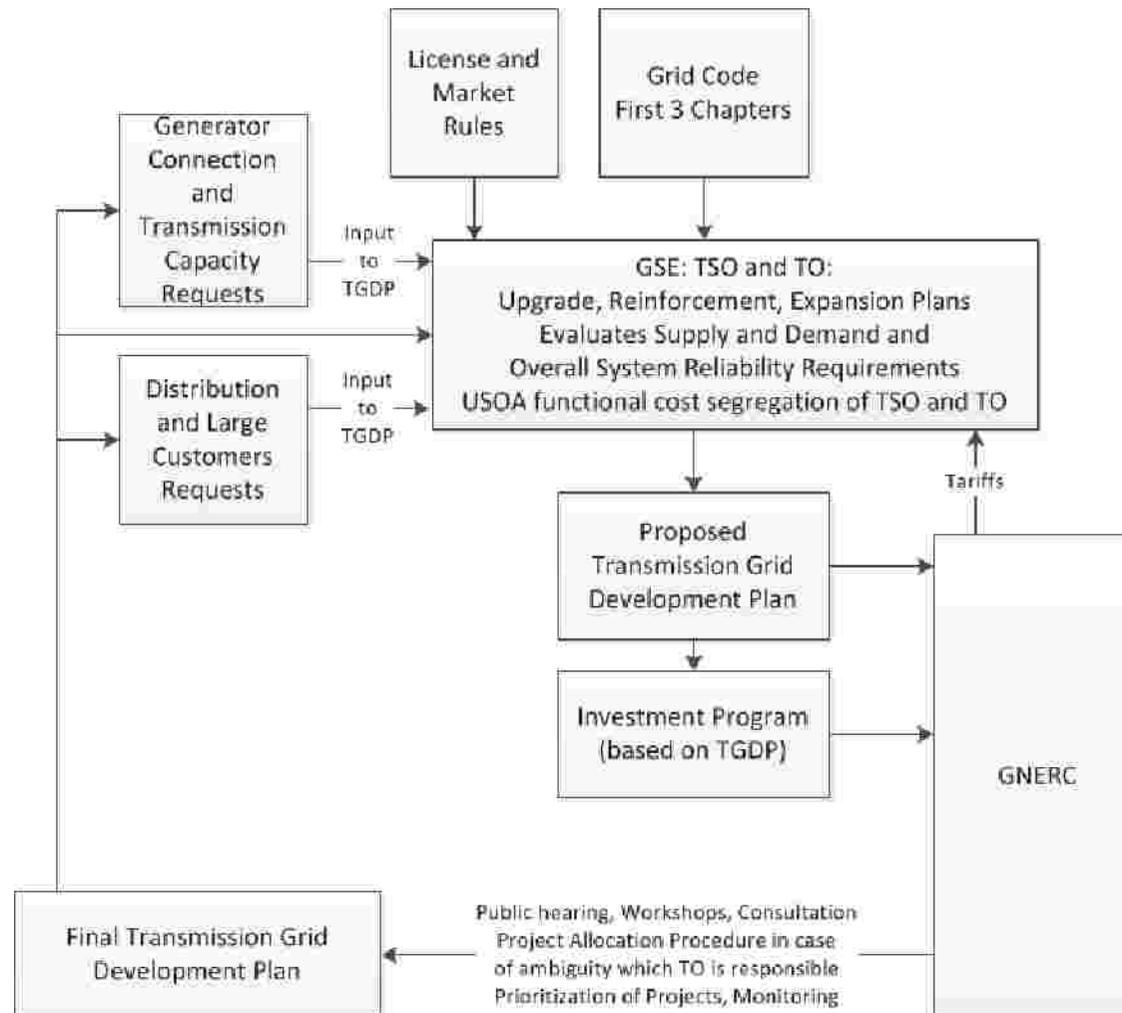


Investment Planning: Existing Framework (2013)



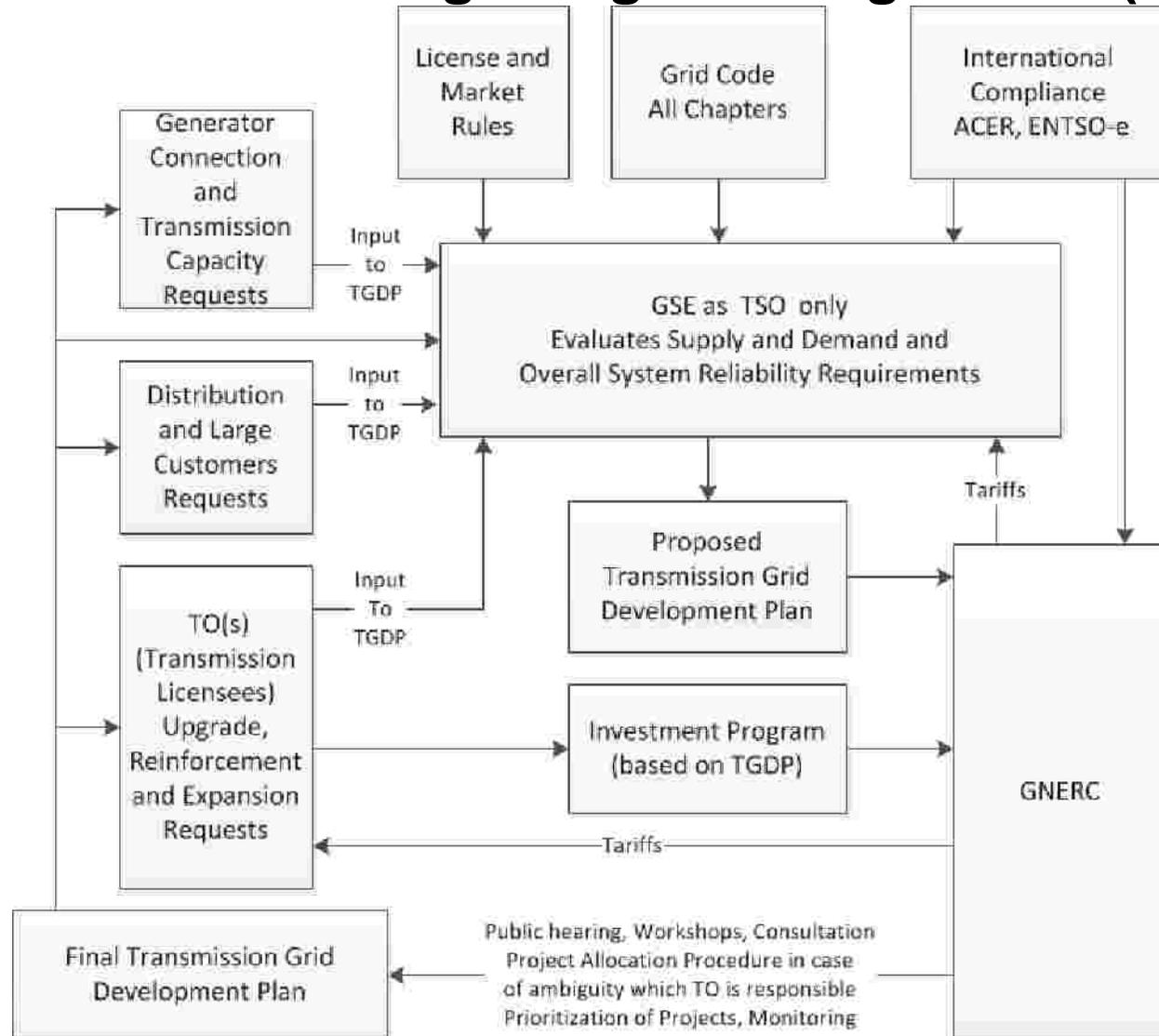


Investment Planning: Transition Phase (2014-2015)





Investment Planning: Target Configuration (2015)





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