



Long Range Transmission Planning *Technical Study Update*

Planning Advisory Meeting

Jan 13, 2021

Purpose & Key Takeaways



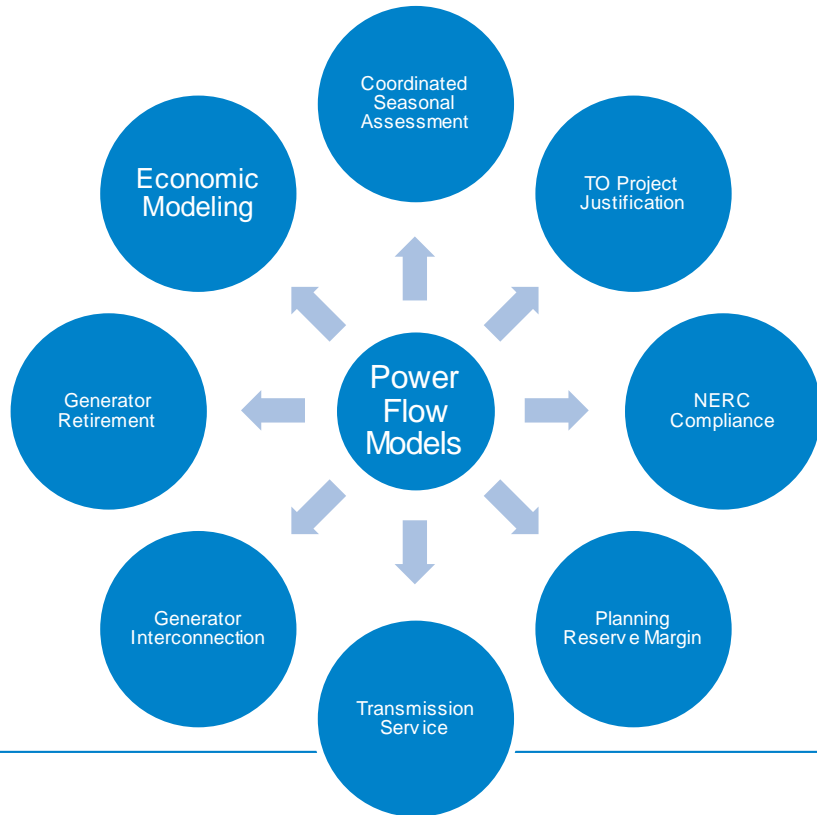
Purpose:

Provide brief overview of the modeling document MISO posted in December 2020

Key Takeaways:

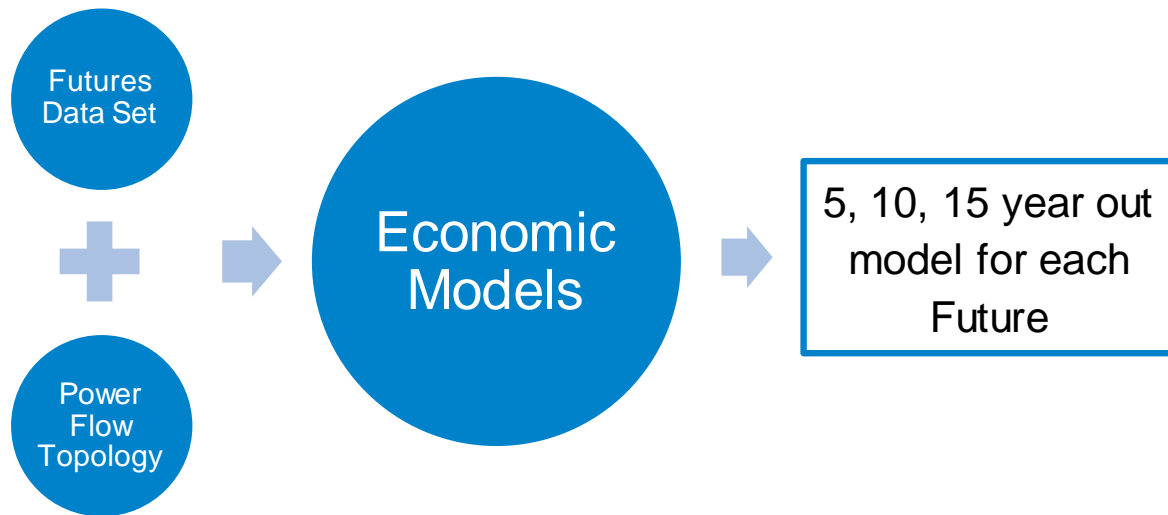
LRTP base model building is ongoing and Stakeholder review opportunity will be provided

MISO's reliability models are built annually and provide input for several efforts



- Reliability (power flow) models are used for multiple efforts and the inputs into those efforts are dependent on the objectives of each effort
- LRTP reliability models also utilize these power flow models as a starting point

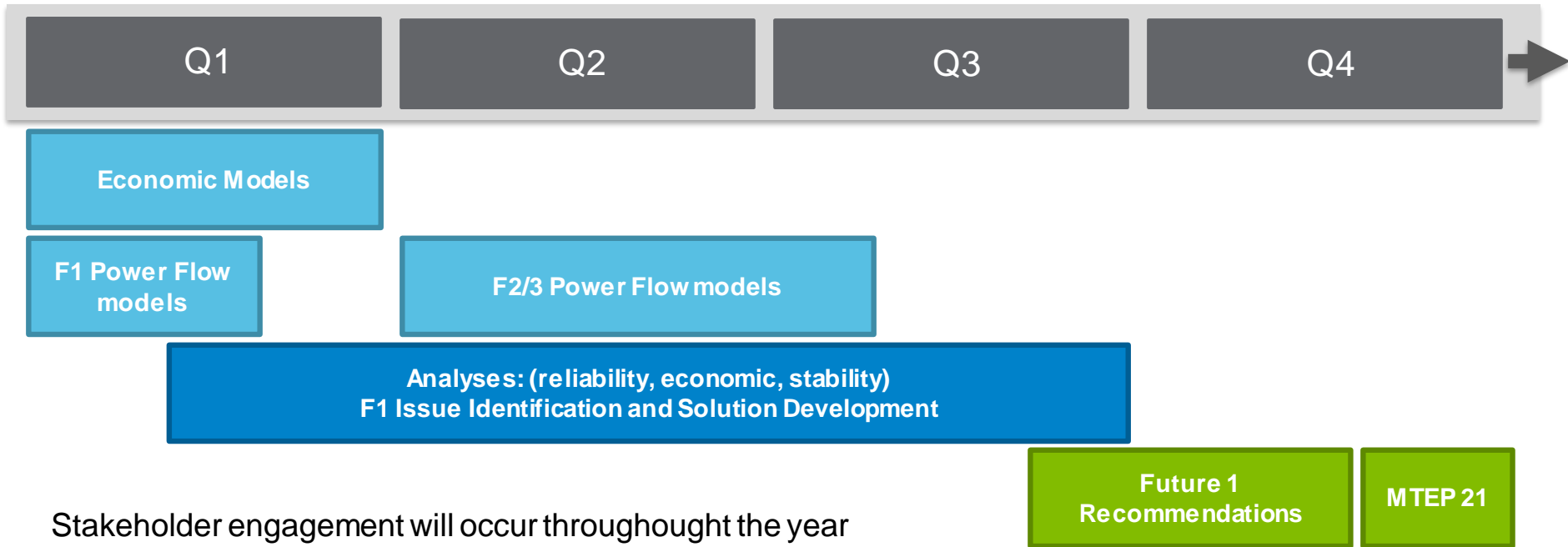
MISO economic models are built annually and incorporate the latest Future data set



L RTP specific models will utilize Futures

- Economic models (PROMOD)
 - In development following normal PROMOD model build process including stakeholder review
 - Process creates 5, 10, 15 year out modes for all three Futures, in addition, 20 year out models will be created for L RTP
- Reliability models (power flow)
 - MISO has published a modeling document describing its modeling approach*
 - 14 base reliability models are being developed for Future 1 to capture various load levels (peak, off-peak, etc.) and dispatch patterns (day vs night) for 10 year and 20 year out periods
 - Additional models may be developed as needed
 - Base models will incorporate the Future 1 data set (generation and load) with generation dispatched based on the practices utilized in our established reliability planning studies
 - Stakeholder review will be provided - more details will be provided as models are ready

2021 High Level Timeline



PAC Action Items

- LRTP Feedback request on LRTP modeling approach
- Describe approach when a power flow model does not solve in planning studies, including LRTP

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