

DSS Experience in Manitoba Hydro

Overview of Manitoba Hydro's Presentations

Long-Term Generation Planning

Bruce Hinton

Medium-Term Operational Planning

Jason Westmacott

Short-Term DSS – Wind Integration

Bill Girling – Manitoba Hydro

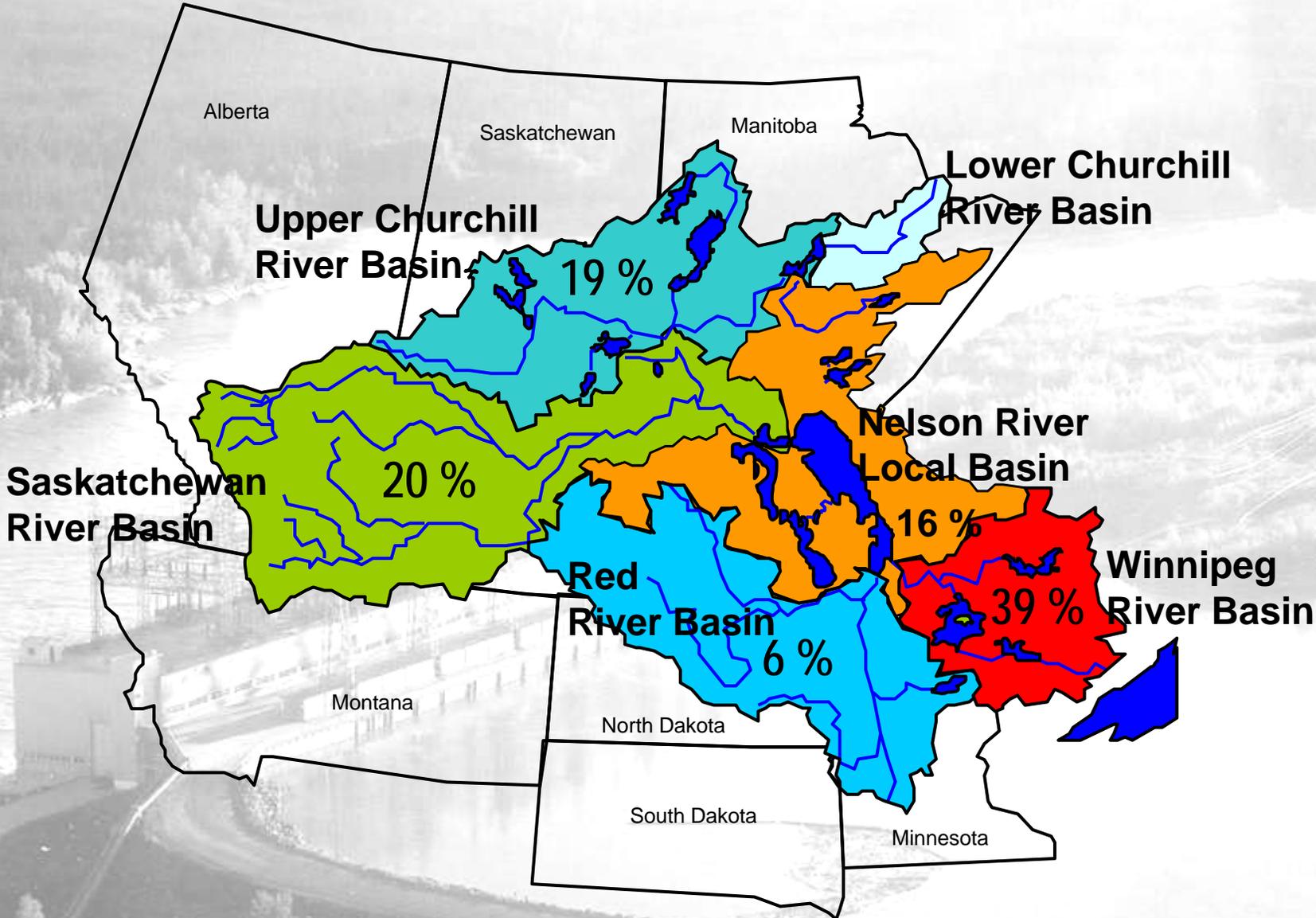
Diana Hurdowar – Synexus Global

Churchill/Nelson River Drainage Basin

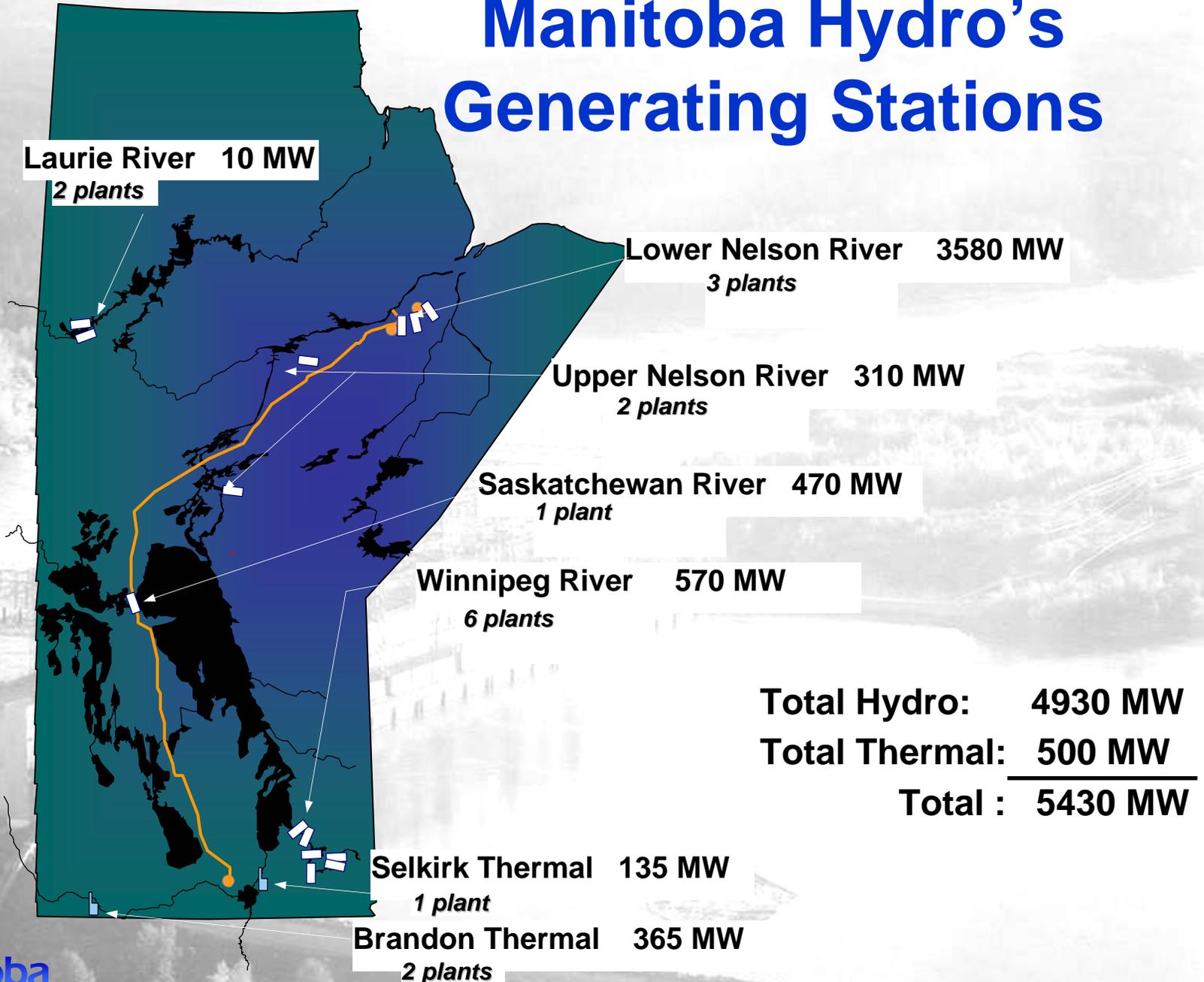
More than
90%
Hydro -
similar to
Hydro-
Quebec

Water Supply
comes from: four
Provinces
two US States

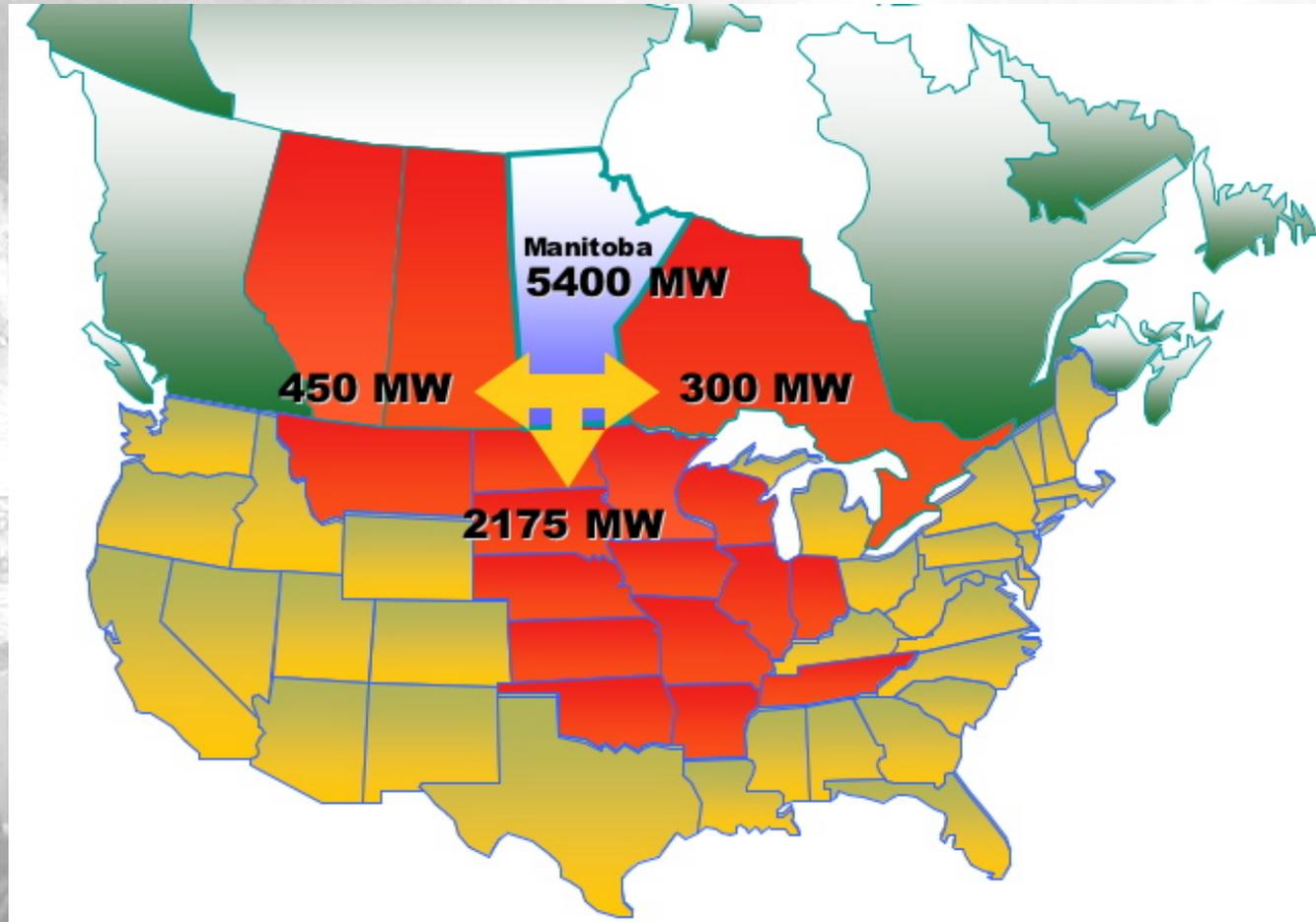
Basin Energy Supply



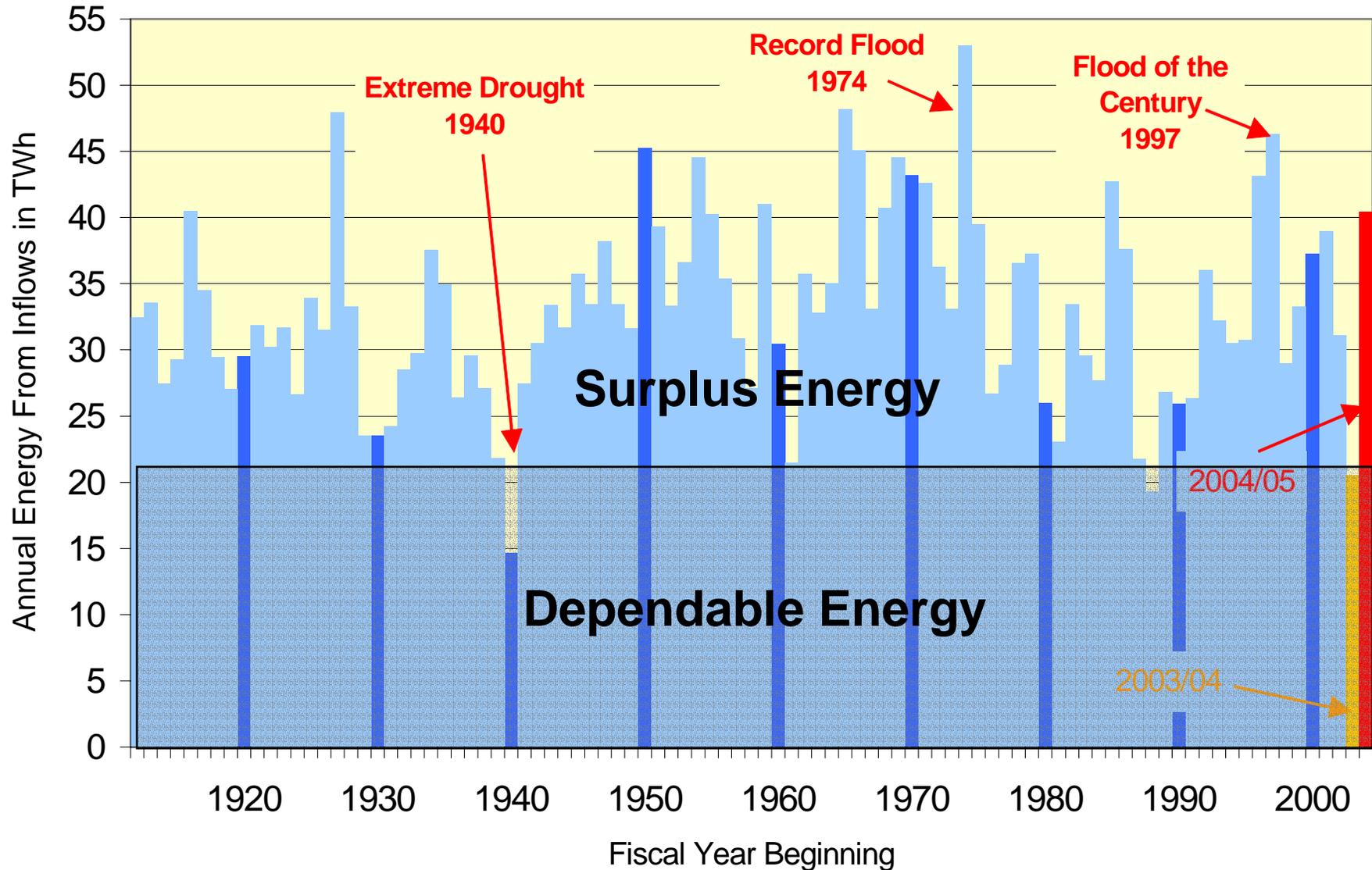
Manitoba Hydro's Generating Stations



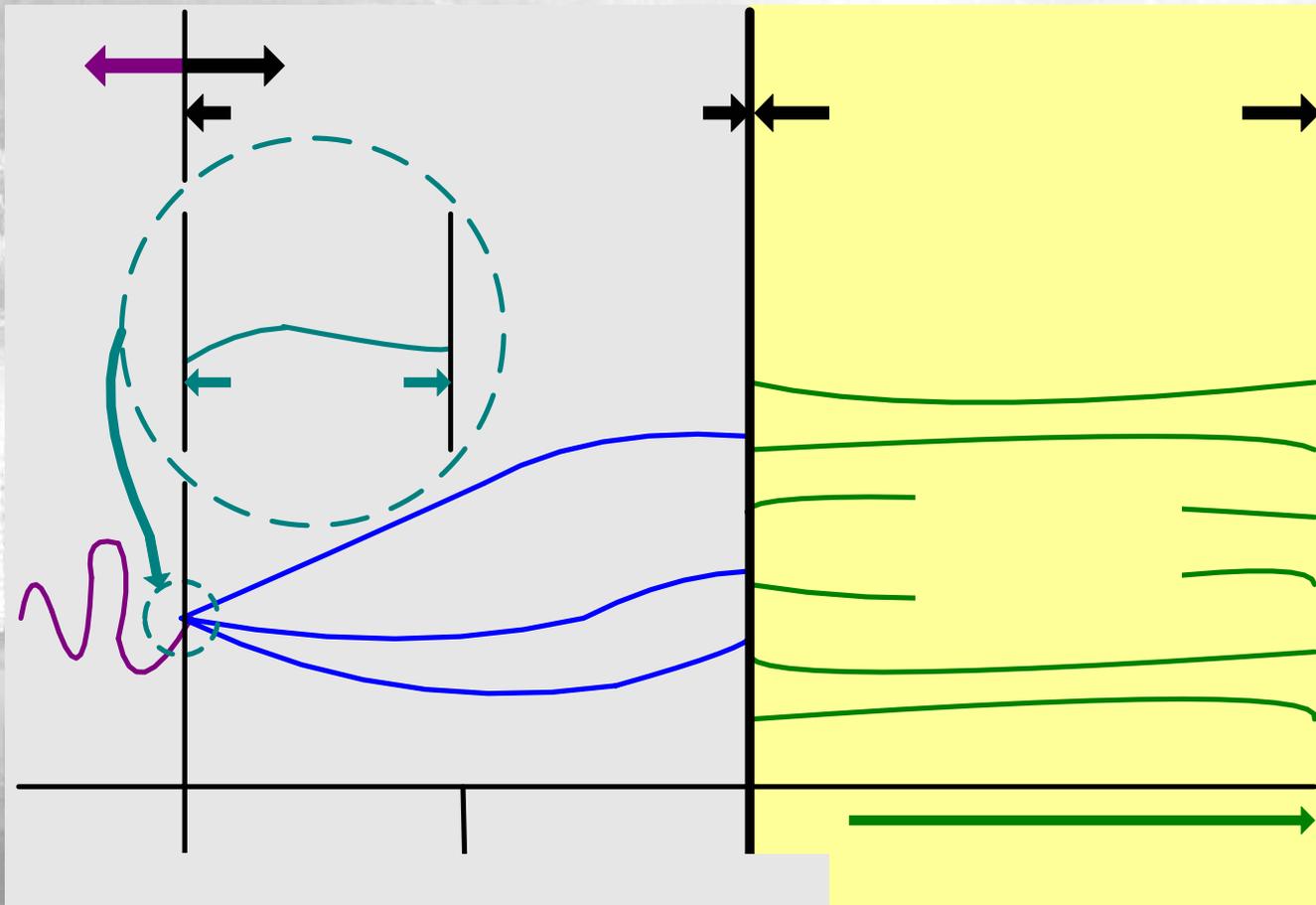
Interconnections Provide Market Access



Historical System Water Supply

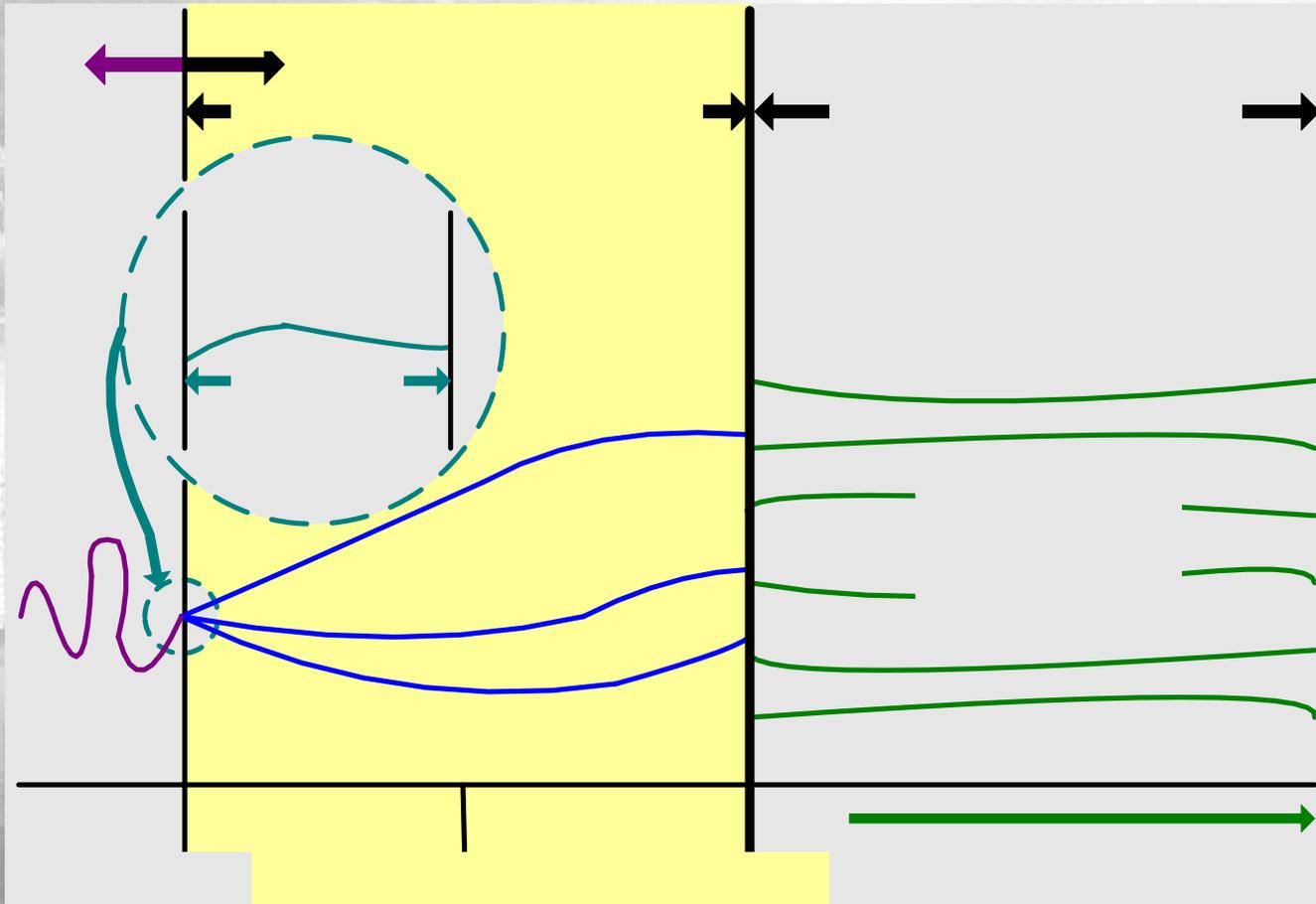


Planning Horizons & Inflow Forecasts



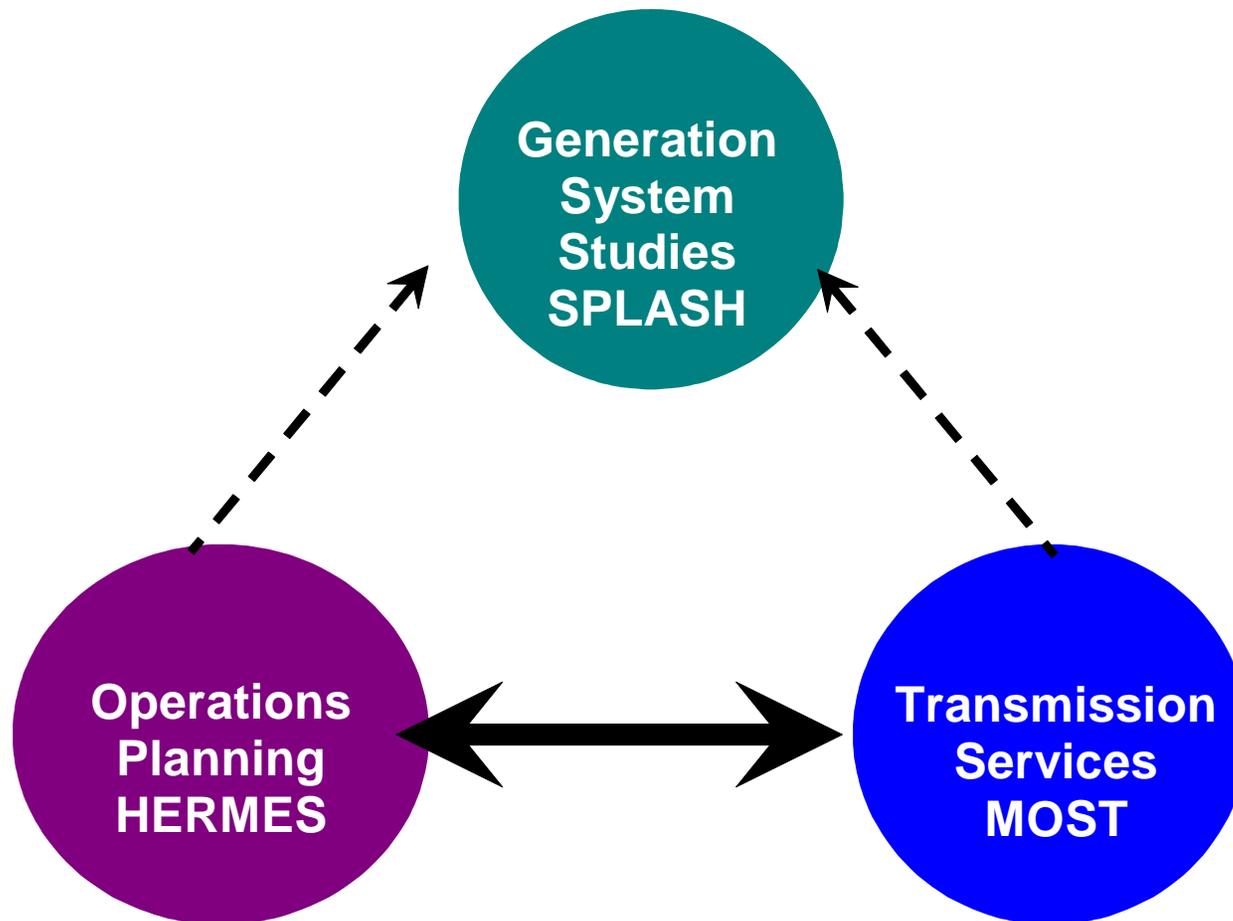
Historic **Forecast**

Planning Horizons & Inflow Forecasts



Historic **Foreca**

Generation System Models used by Modeling Groups in Manitoba Hydro





Introduce Long-Term Generation Planning Model

Bruce Hinton

Future Directions (for wrap-up)

1. One Model in Planning
2. Probabilistic vs. Deterministic
3. Build in Capability to Model:
 - Climate Change Impacts