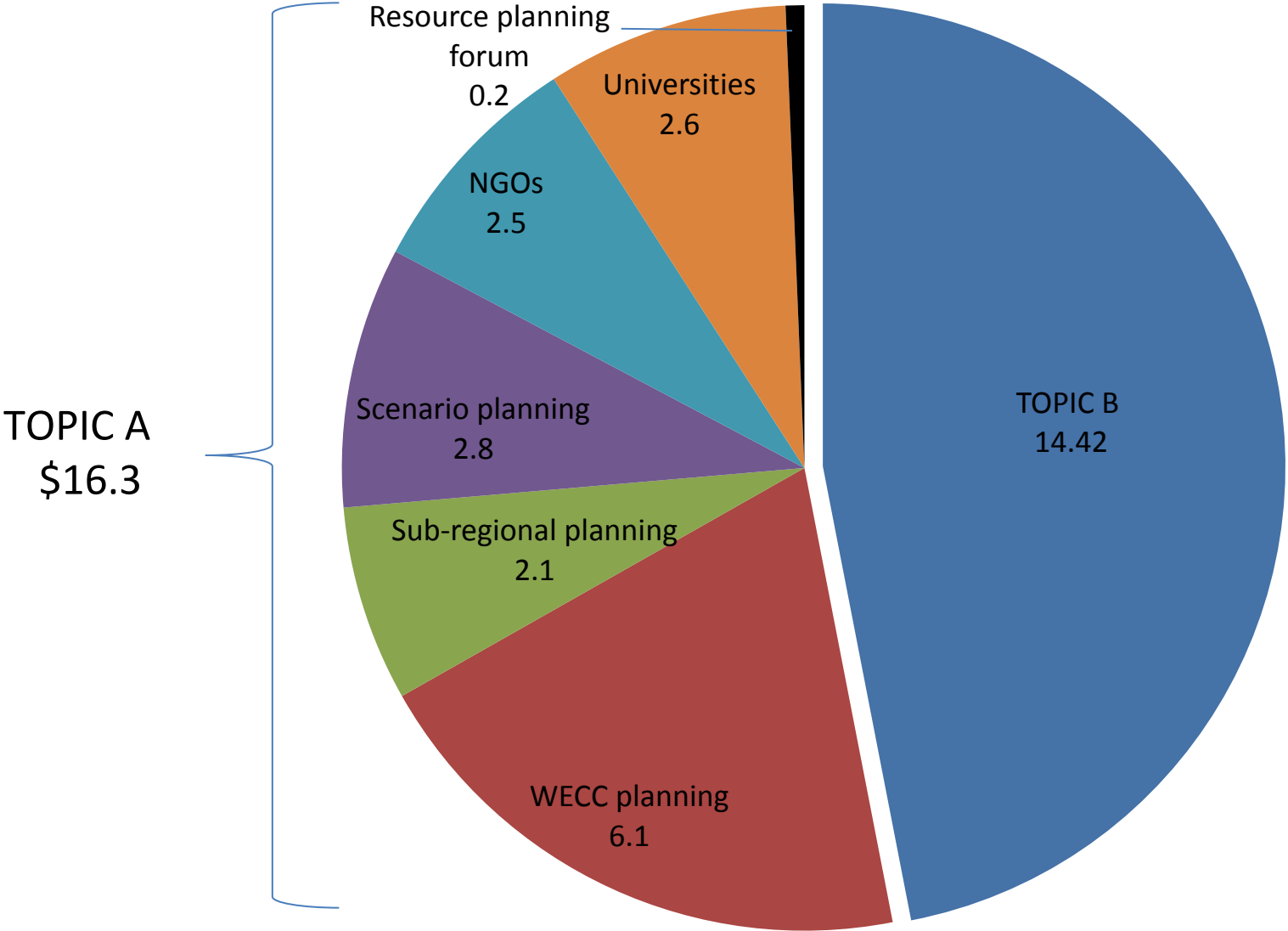


# Overview of Topics A and B

Doug Larson

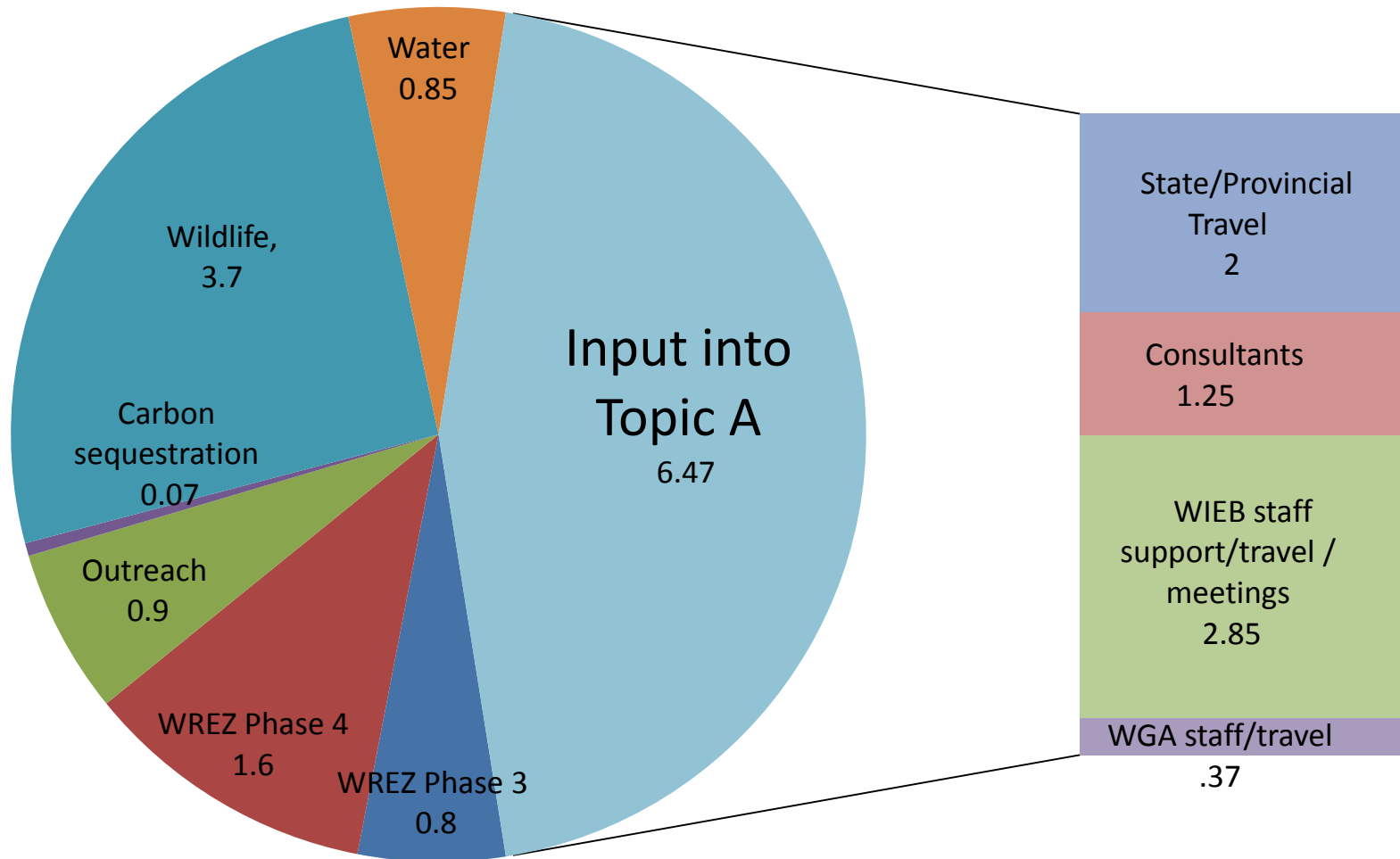
# Budget orientation to Topic A and B proposals (in million \$)



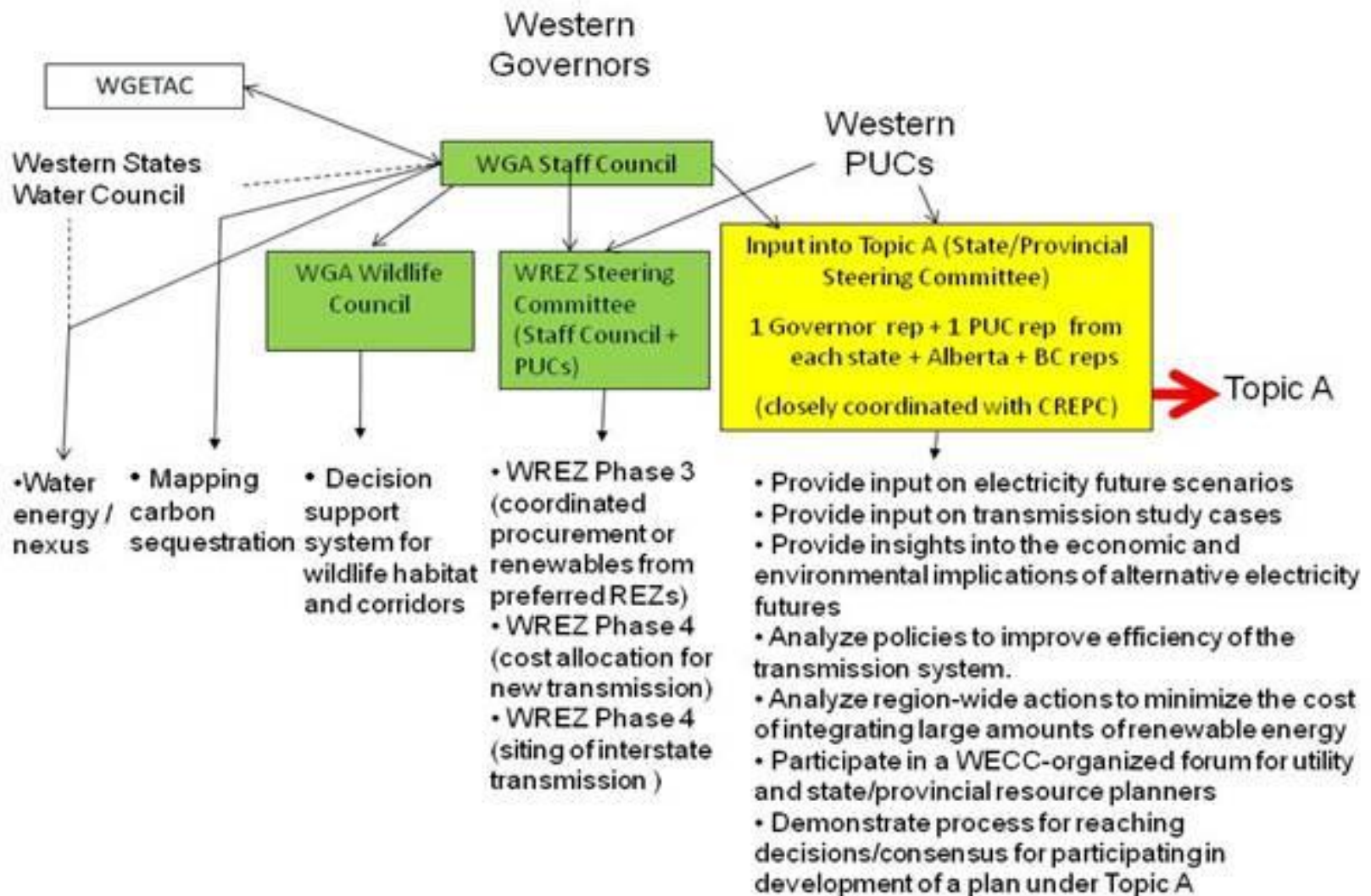
# Activities under Topic B of the FOA

(per the Sept 11 WGA application to DOE)

# Topic B proposed budget (in million \$)



# Organization of Topic B activities



# State-Provincial Steering Committee

- Tasks
  - Direct the execution of the Input into Topic A task
  - Focus on four areas
    - **Expansion planning**
    - **Integration of variable generation**
    - **More efficient use of the existing grid**
    - **Resource planners' forum**
- Composition
  - One representative from the Governor/Premier, one from PUC from states and provinces in the Western Interconnection

# State-Provincial Steering Committee appointees to date

AB	Premier – pending	NV	PUC – Rebecca Wagner Gov – pending
AZ	ACC – Kristin Mayes Gov – Mike Anable (pending)	NM	PRC – Jason Marks (attending 11/6 meeting) Gov – Sarah Cottrell
BC	Premier – Les MacLaren	OR	PUC – John Savage Gov/SEO – Tom Stoops
CA	PUC – Dian Gruenich Gov – pending	SD	Gov – Hunter Roberts
CO	PUC – Jim Tarpey Gov – Morey Wolfson	TX	Declined
ID	PUC – Marsha Smith Gov – John Chatburn	UT	PSC – Ric Campbell Gov – Dianne Nielson
MT	PSC – Ken Toole Gov – Tom Kaiserski	WA	UTC – Jeff Goltz Gov – Howard Schwartz (interim appointment)
NE	Invited	WY	PSC – Steve Oxley Gov – Steve Ellenbecker

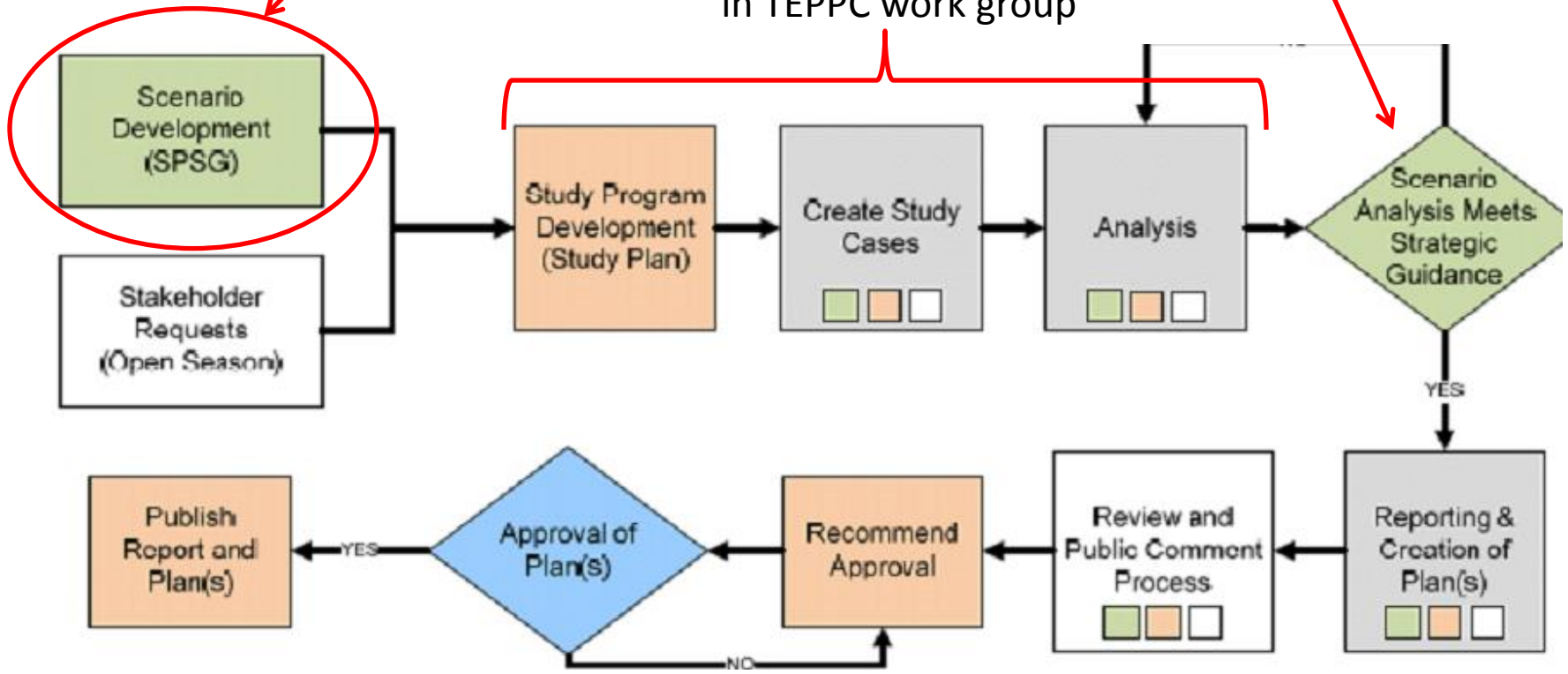
# Input into WECC planning

- Nominations to WECC Scenario Planning Steering Group
- Steering Committee recommended scenarios
  - For example: high efficiency; high demand; high renewables; carbon limits; coal with CCS; etc.
- Building capacity of states/provinces to directly participate in planning studies
  - Travel reimbursement
  - Information sharing among states/provinces
  - WIEB staff support

# WECC planning process

State/provincial members of Scenario Planning Steering Group

Direct state/provincial participation in TEPPC work group



# Subregional transmission planning

- Build the capacity of states/provinces to be effective participants in subregional planning groups
  - Travel reimbursement
  - Sharing of information among state/provincial participants on important subregional issues

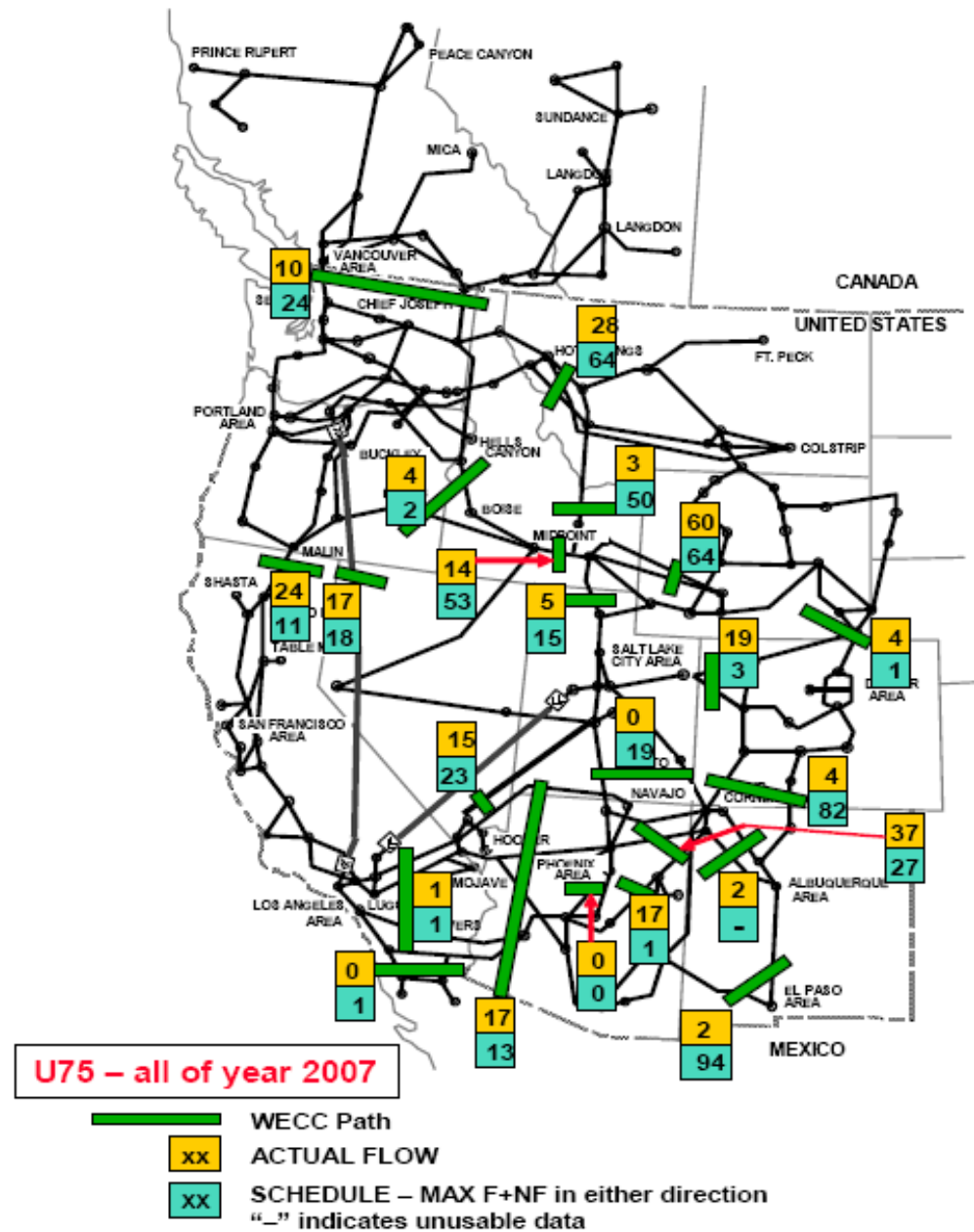
# Integration of variable generation

- Example activities under Topic B
  - Expand state/provincial participation in WECC Variable Generation Subcommittee
  - Expand state/provincial participation in and understanding of subregional initiatives (e.g., NTTG-Columbia Grid-WestConnect Joint Initiatives)
  - Engage in regional wind and solar integration studies (e.g., NREL/WestConnect, NW wind integration, potential WECC study)
  - Examine virtual consolidation of Balancing Authorities
  - Foster better wind and solar forecasting

# Efficient use of the existing grid

- This has been a long-term CREPC priority
  - Necessary to lower costs to consumers
  - Necessary to demonstrate need for new transmission
- Example activities under Topic B
  - Expand state/provincial participation in TEPPC Historical Analysis Work Group
  - Participate in ongoing analyses of more efficient grid use such as WECC MIC congestion management study and Joint Initiatives
  - Explore better grid management options

# Percent of Time Flows and Schedules Above 75% of Path's Capacity



# Path Ranking

## Maximum Seasonal Values from 1999 through 2005

### % of Time Path Actual Flow exceeds 75% of Path OTC

