



Joint Initiative Presentation

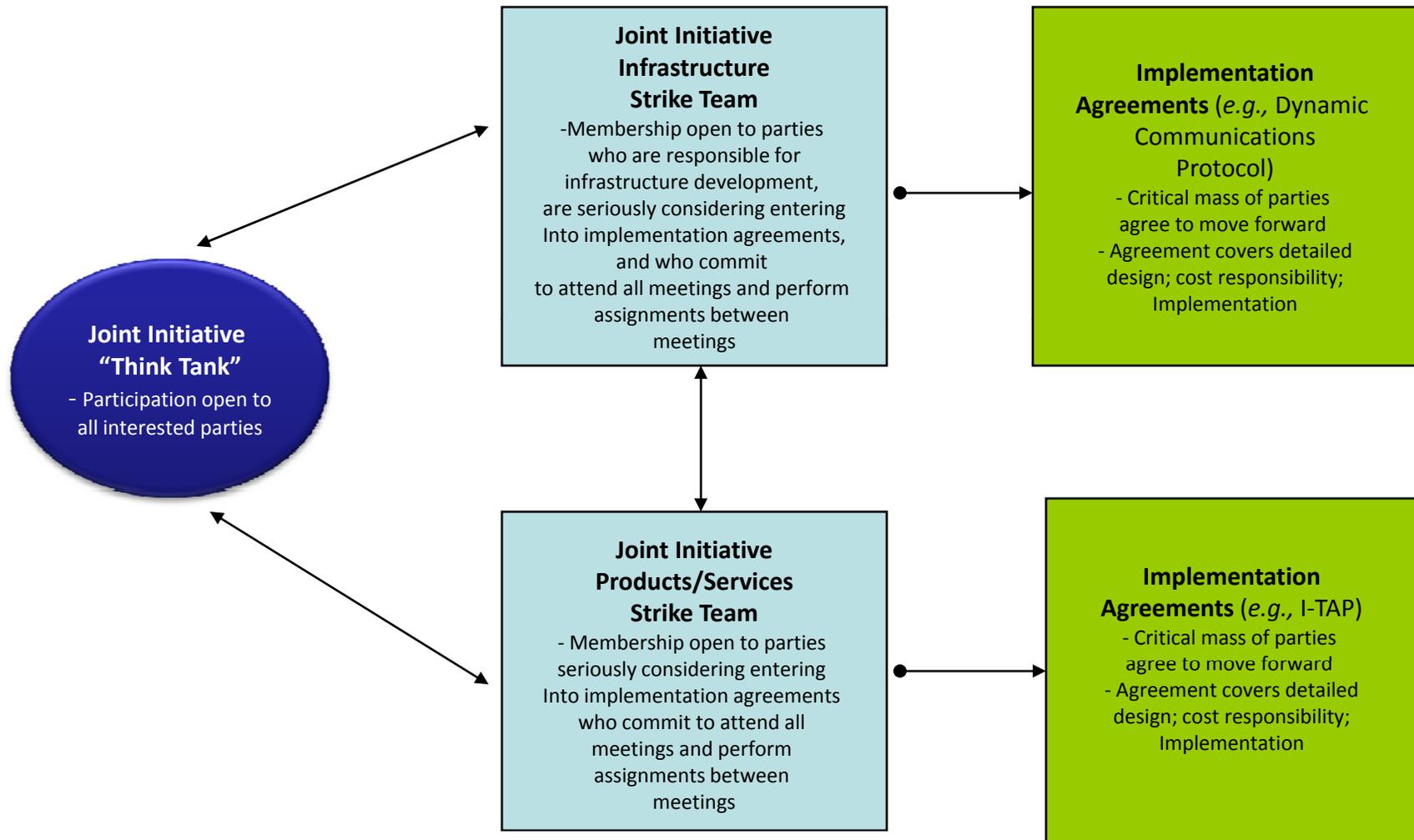
Western Interconnection Resource Planning Forum

February 24, 2009

Goal

- Encourage and facilitate Western Interconnection parties to develop and implement high-value cost-effective regional products
- Broader focus than integration of renewables, but immediate wind integration issues provide significant motivation

Structure



Approach

- Beginning focus is narrow, could be expanded after initial successes
- Joint Initiative Strike Teams develop business case proposal
- Interested parties move to implementation agreement when critical mass is achieved; may not involve all Joint Initiative parties

Relationship with Wind Integration

- Uniquely situated to assist with timely integration of renewable resources
 - Short timeframe
 - Initial products straightforward (do not require tariff amendments)
 - Focus is on more efficient use of existing transmission, including greater ease in accessing system flexibility both within and outside of Balancing Authority areas

Focus

- Currently focused on three areas that relate directly to wind integration issues
 - Within-Hour Transmission Purchase and Scheduling Business Practices (**Products and Services Strike Team**)
 - Allows for within-hour schedule changes to address unanticipated generation patterns
 - Inter-Hour Transaction Accelerator Platform (I-TAP) (**Products and Services Strike Team**)
 - Facilitates bilateral transactions to address unanticipated generation patterns

Focus

- Dynamic Scheduling System (DSS)
(Infrastructure Strike Team)
 - Provide more agile delivery mechanism for dynamic energy products (currently, dynamic scheduling must be arranged manually days, weeks, or months in advance)

Within-Hour Transmission Purchase and Scheduling Business Practices

- Business Practices to allow within-hour scheduling and within-hour purchase of existing transmission products
 - Better use of capacity within and outside of BA (bilateral transactions) by allowing shorter timeframes for scheduling
- Success
 - Strike Team finalized recommendation, including proposed business practices
 - Individual TSPs/BAs coordinating finalization and implementation

I-TAP

- Automated Information Exchange
 - Information regarding state of participating systems, including individual generator's ability and prices to move up (inc) or down (dec)
 - Leads to greater visibility regarding needs, opportunities, and costs
- Automated Mechanisms to access system flexibility swiftly and efficiently
 - Communications links
 - Links to OASIS for transmission purposes

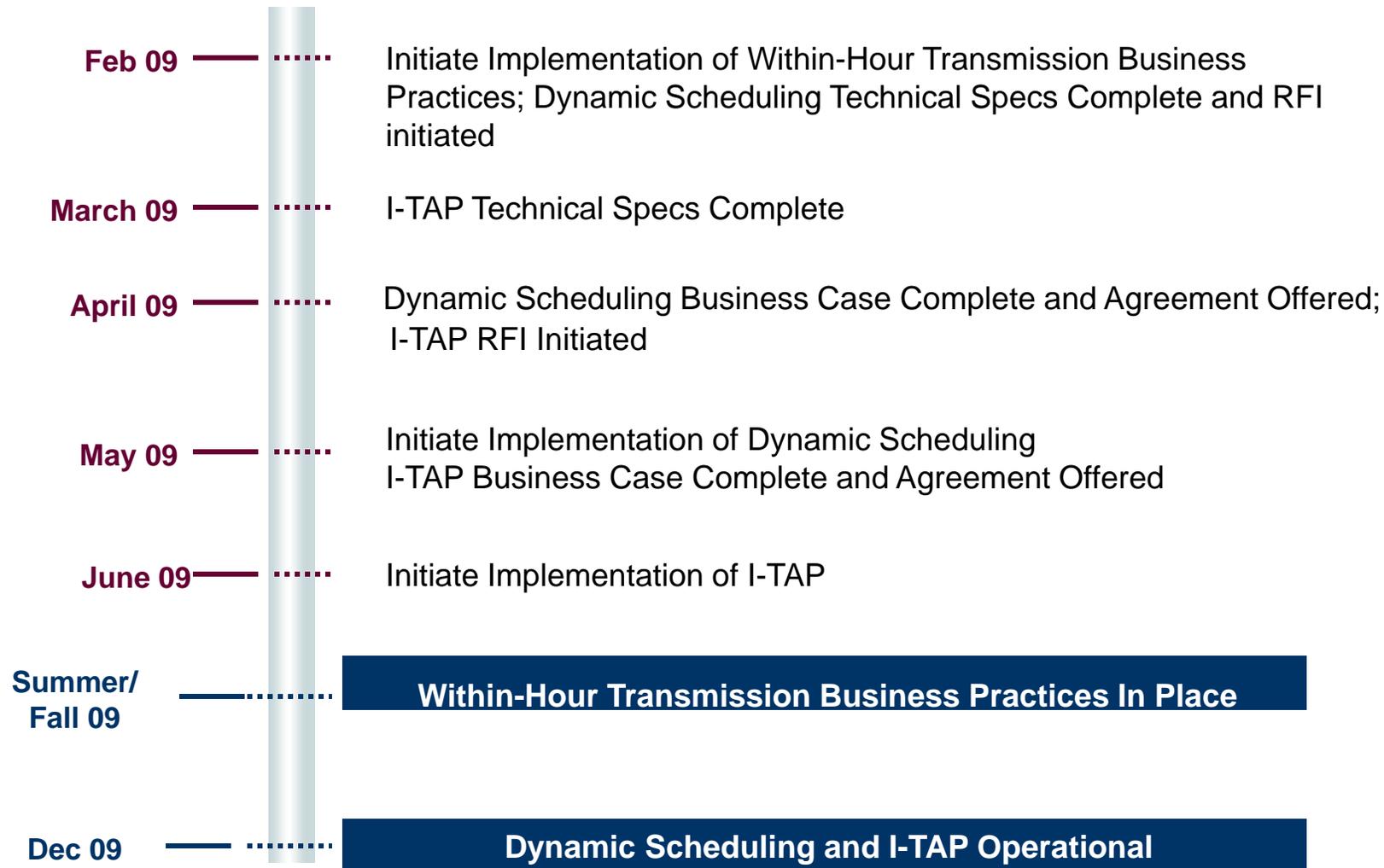
I-TAP

- Facilitates accessing flexibility both within and outside of a BA's area as opposed to relying exclusively on BA's system to support wind integration
- Helps manage costs of integrating wind

DSS

- Supports increased utilization of the transmission grid by providing the ability to implement dynamic schedules between any number of BAs at any scheduling granularity
- Accomplished via a centralized node that interfaces with participant systems via e-Tag requests and ICCP links
- Utilizes existing processes and systems, to the extent possible
- RFI released February 8; responses due March 9; final business case/recommendation by mid-April

Rough Timeline



Current Products and Services Strike Team Participants

APS (Transmission)

BPA (Trans/Merch/Corp)

ColumbiaGrid

Grant County PUD

OATTi

PacifiCorp (Trans/Merch)

PGE (Merchant)

PPC

PSE (Transmission)

Seattle City Light

Snohomish

Tacoma

WECC

WestConnect

Xcel (Merchant)

PowerEx

Northwestern (Trans

I-TAP)

Current Infrastructure Strike Team Participants

Balancing Area Participants:

- BCTC
- BPA
- Grant County PUD
- Idaho Power
- Northwestern Energy
- PacifiCorp
- Puget Sound Energy
- Seattle City Light
- Xcel Energy

Other Interested Parties:

- Columbia Grid
- Northern Tier Transmission Group
- WECC
- West Connect

Opportunities for Involvement

- Infrastructure Facilitator
Sharon Helms (503-644-6262)
- Products and Services Co-Facilitators
Charlie Reinhold (480-215-0299)
Kristi Wallis (206-726-1699)
- Joint Initiative materials posted on CG website

www.columbiagrid.org



Questions