

# Southwest Area Transmission (SWAT) Update

Arizona 9<sup>th</sup> Biennial Transmission  
Assessment

E-00000D-15-0001

Workshop #1

June 1, 2016



# SWAT's Purpose

May 20, 2009

## Southwest Area Transmission Subregional Planning Group CHARTER

### I. Purpose

- The Southwest Area Transmission (SWAT) subregional planning group is a voluntary study group that has been created to serve the following purpose:
- *To provide an open and collaborative forum where interested parties are encouraged to participate in the planning, coordination, and implementation of a robust transmission system in Arizona, New Mexico, and parts of Colorado, west Texas, southern Nevada, and the Imperial Valley area of California. The open stakeholder participation envisioned in this process is intended to result in transmission expansion plans that meet a variety of needs and have a broad basis of support.*



# SWAT in Relation to WestConnect and Planning Regions

# SWAT Area

## SWAT Footprint covers:

Arizona

New Mexico

Southern Nevada

Southern California (IID, LADWP)

West Texas (El Paso)

## Meetings:

All SWAT Oversight, Subcommittee, Work Group or Study Group meetings are open to interested stakeholders.

Four meetings per year in: February, May, August, and November.

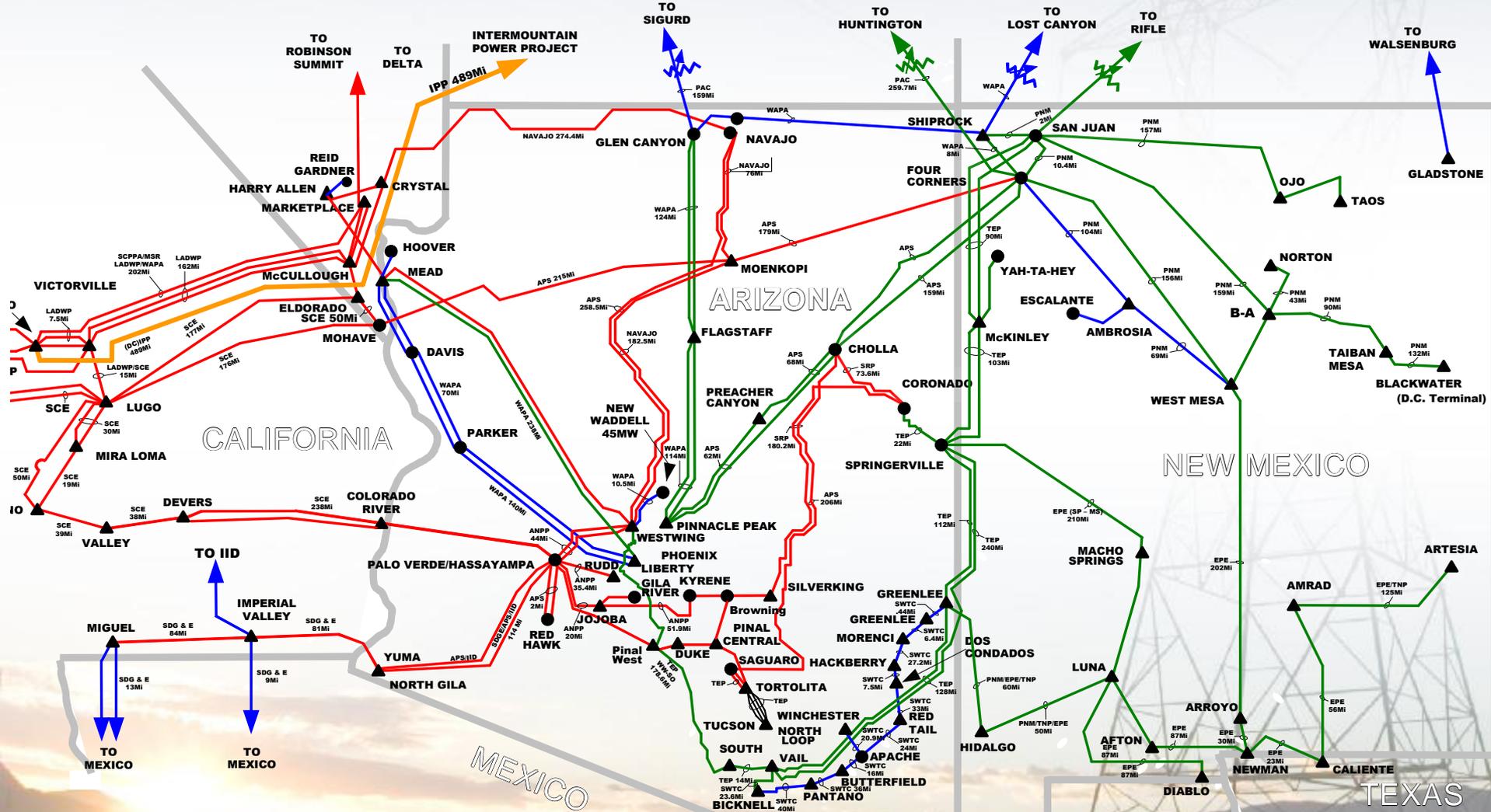
Work groups hold additional meetings as needed.

## Meeting materials located at:

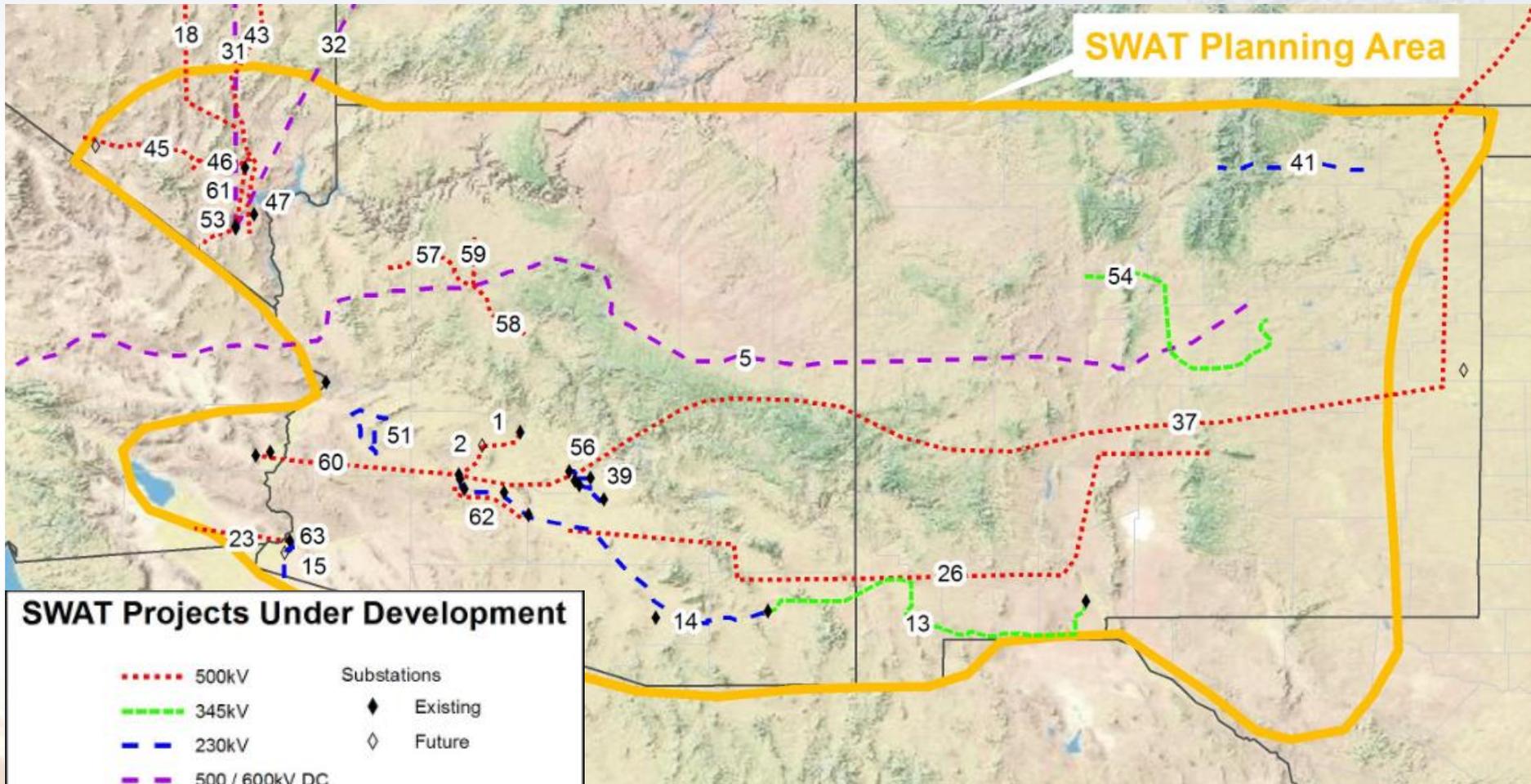
[http://www.westconnect.com/planning\\_swat.php](http://www.westconnect.com/planning_swat.php)



# Major Existing Transmission in SWAT



# Major Projects Under Development in SWAT



## SWAT Projects Under Development

- |  |             |
|--|-------------|
| <span style="color: red;">- - -</span> 500kV             | Substations |
| <span style="color: green;">- - -</span> 345kV           | ◆ Existing  |
| <span style="color: blue;">- - -</span> 230kV            | ◇ Future    |
| <span style="color: purple;">- - -</span> 500 / 600kV DC |             |

<http://www.westconnect.com/documents.php#cat83>



Last Updated: 5/5/2016

# SWAT Structure and Subcommittees

## SWAT OVERSIGHT COMMITTEE

Chair: P. Harwood

Vice-Chair: C. Fecke-Stoudt

### Arizona Updates

Contact: G. Trent /  
P. Harwood

### New Mexico Updates

Contact: T. Duane

### Eldorado Valley Updates

Contact: P. Harwood

### California Interface Updates

Contact: C. Fecke-Stoudt

### SWAT-AZ / BTA Studies

Chair: G. Trent

### Coal Reduction Assessment Task Force

Chair: R. Belval/TEP Staff

### Short Circuit Work Group

Chair: J. Trejo

# SWAT Highlights, Summer 2014-2016

- Assisted WestConnect in Order No. 1000 implementation:
  - Coordinated base case for 2015 study cycle
  - Vetted transmission topology assumptions used in the study plan.
- Continued project updates; maintained maps and project listings for SWAT area
- Continued updates on California interface, especially CAISO transmission planning process.
- Industry updates: CREPC Electric-Gas study, NREL Western Wind and Solar Integration Study, Sonoran Institute Build-out study, WECC updates, Reliability Standard Updates, etc.
- Discussion of conceptual opportunities for a transmission corridor along proposed interstate I-11
- Continued updating the ASPEN short circuit cases for SWAT planning area.

# Arizona Subcommittee (SWAT-AZ)

- Coordinated the study plan and technical study work to support the Biennial Transmission Assessment (BTA) which included:
  - 10<sup>th</sup> Year Snapshot Study (N-1-1)
  - Extreme Contingency Study
  - EE/DG studies
  - Load Forecasts for Reliability Must Run Studies
- Coordinated several base cases for utilities' internal studies.
- Coordination of new NERC TPL-001-4 study plans and results.
- Shared updates on projects and other technical issues.

# Coal Reduction Assessment Task Force

- Led by Tucson Electric Power
- First phase of a reliability study conducted to determine potential impacts of coal reductions; reported in 8<sup>th</sup> BTA.
- Continued meeting to shape the next phase of the study throughout Fall 2014.
  - Most interest was in making coal reductions reflect EPA Clean Power Plan, “111(d)” possibilities.
  - State implementation plans delayed and now stayed by U.S. Supreme Court
  - Technically, studies could not be limited to just SWAT or Arizona areas.
- WestConnect studying coal retirement scenarios in its 2016-2017 planning cycle. If needed, Arizona-specific analysis will continue after WestConnect studies are complete.

# Next SWAT Meetings

- August 2016 – (Westminster, Colorado)
- November 2016 – (Phoenix, Arizona)
- February 2017
- Check WestConnect Calendar for Updates:  
<http://www.westconnect.com/calendar.php>

# Questions?

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