

Top Three Renewable Transmission Projects

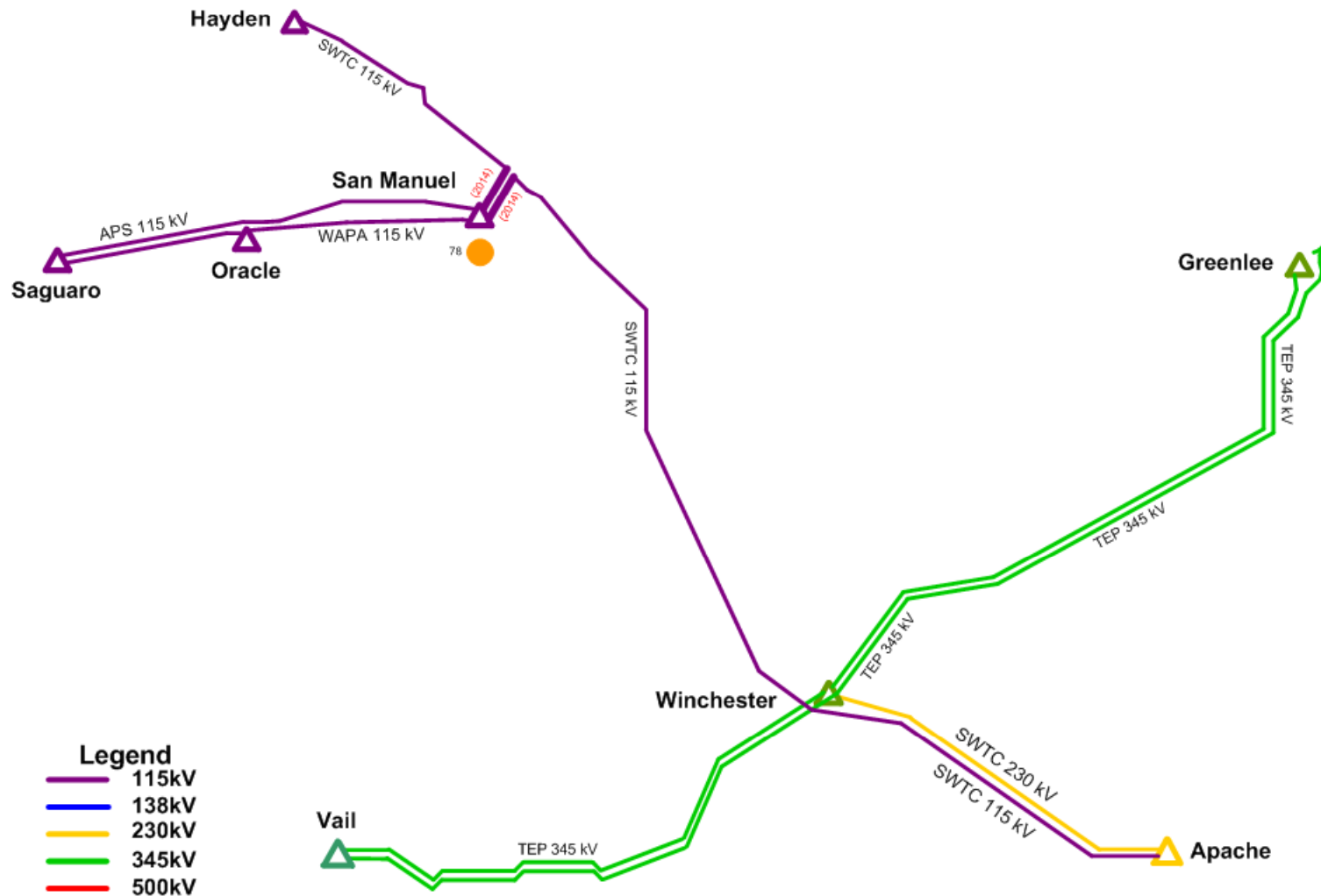
6th BTA Workshop
Carnegie Center, Phoenix, AZ

Jim Rein/Bruce Evans
June 3-4, 2010

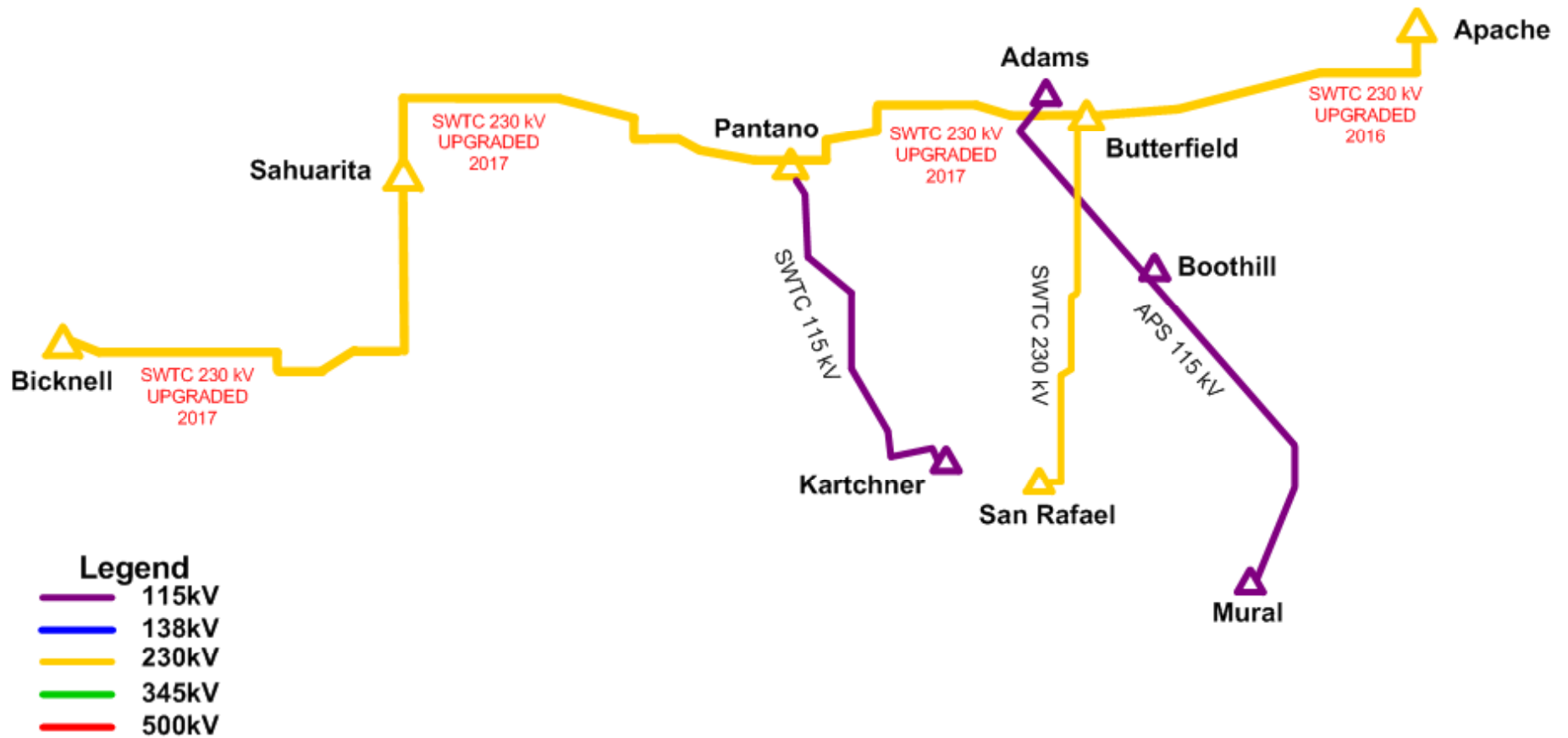
Overview

- SWTC initially presented its plan for its Top Three Renewable Transmission Projects at the August 14, 2009 Utility Group Meeting. The projects presented were:
 - San Manuel Interconnect Project
 - Apache-Bicknell 230 kV Line Upgrade Project
 - WAPA Saguaro-Apache 115 kV Line Upgrade Project (SOI Proposed Project)
- As required by the Commission's 5th BTA Decision #70635, SWTC docketed its "Plans for Top Three Renewable Transmission Projects" on October 28, 2009.

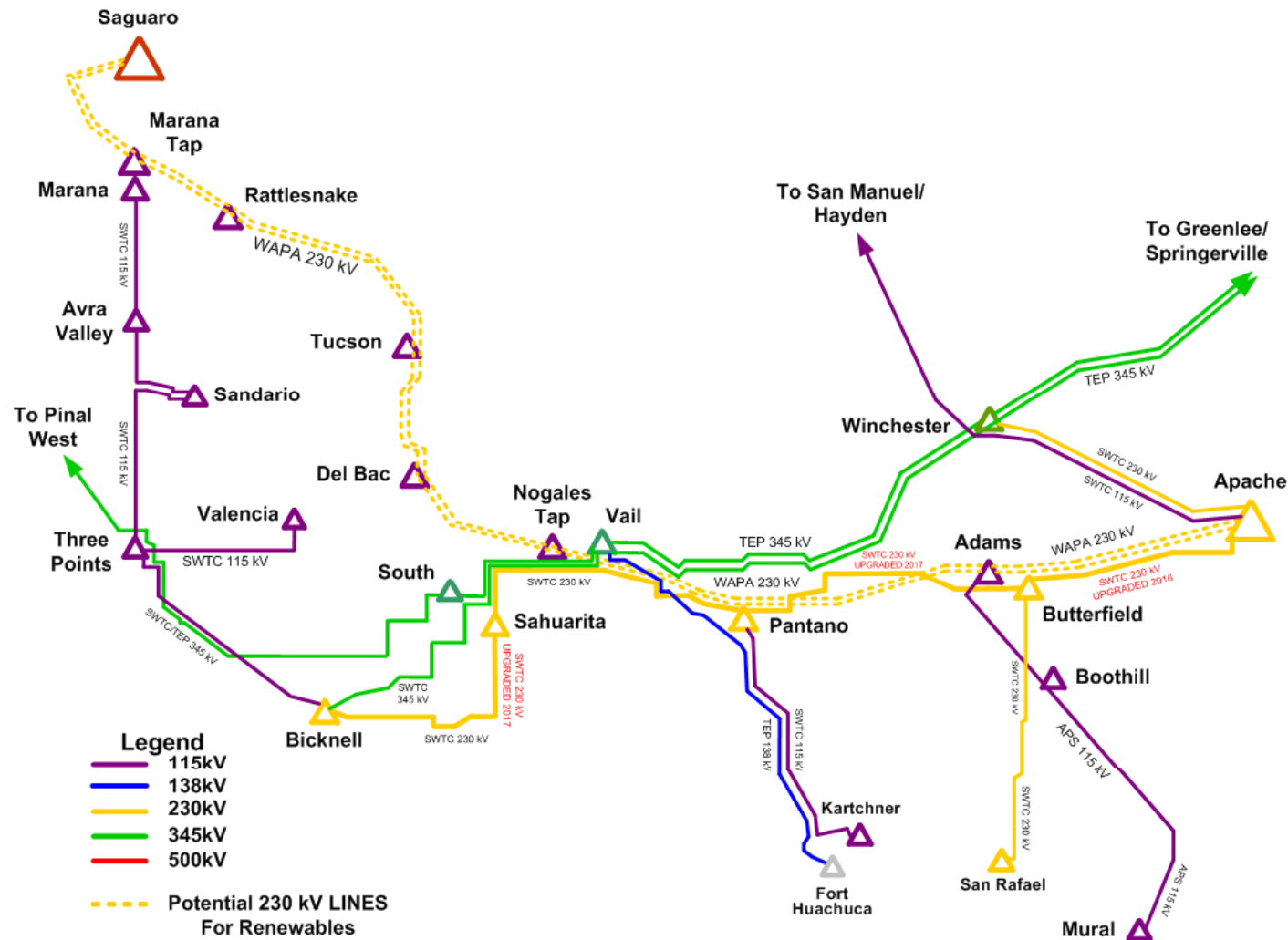
San Manuel Interconnect Project



Apache-Bicknell 230 kV Line Upgrade Project



WAPA Saguaro-Apache 115 kV Line Upgrade Project



Update on Projects

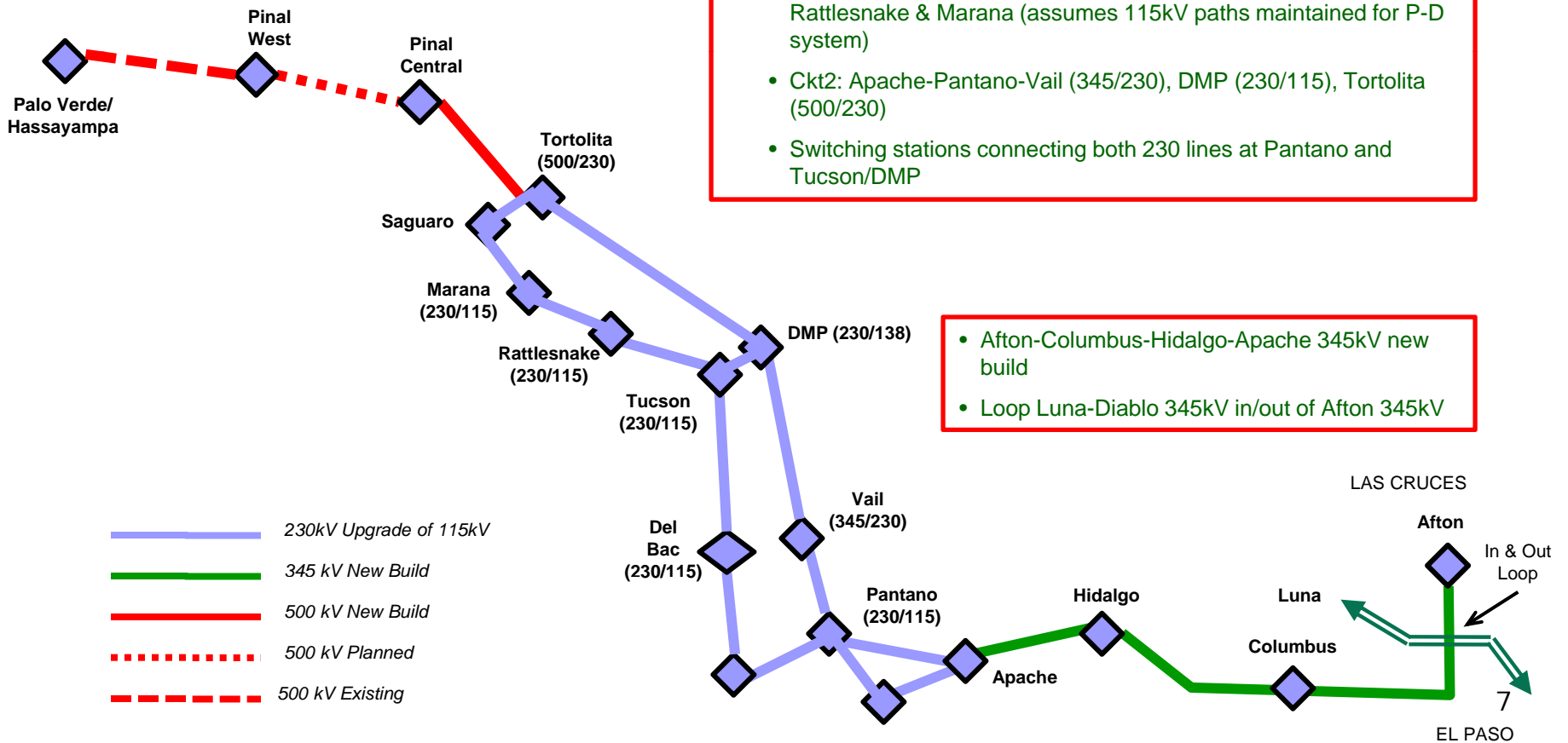
- San Manuel Interconnect Project in-service date deferred from 2010 to 2014 due to economic downturn. No new interconnection requests have been received in area.
- Apache-Bicknell 230 kV Line Upgrade Project in-service date deferred from 2014/2015 to 2016/2017.
 - Project path similar to Scenario 1 of the Southline Project.
- WAPA Saguaro-Apache 115 kV Line Upgrade Project is still being considered by WAPA for TIP funding, but is not actively being pursued at this time.
 - Project path also similar to Scenario 1 of the Southline Project.

Scenario 1 of Southline Project

- Tortolita-Pinal Central 500kV new build
- Pinal Central-Pinal West 500kV planned
- Pinal West-Palo Verde 500kV existing

- Rebuild Western 115kV Apache-Saguaro to 230kV double circuit
 - Ckt 1: 230/115kV substations at Adams, Pantano, Nogales, Rattlesnake & Marana (assumes 115kV paths maintained for P-D system)
 - Ckt2: Apache-Pantano-Vail (345/230), DMP (230/115), Tortolita (500/230)
 - Switching stations connecting both 230 lines at Pantano and Tucson/DMP

- Afton-Columbus-Hidalgo-Apache 345kV new build
- Loop Luna-Diablo 345kV in/out of Afton 345kV





Questions?

