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Filer:	Misa Milliron
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Western
Area Power
Administration

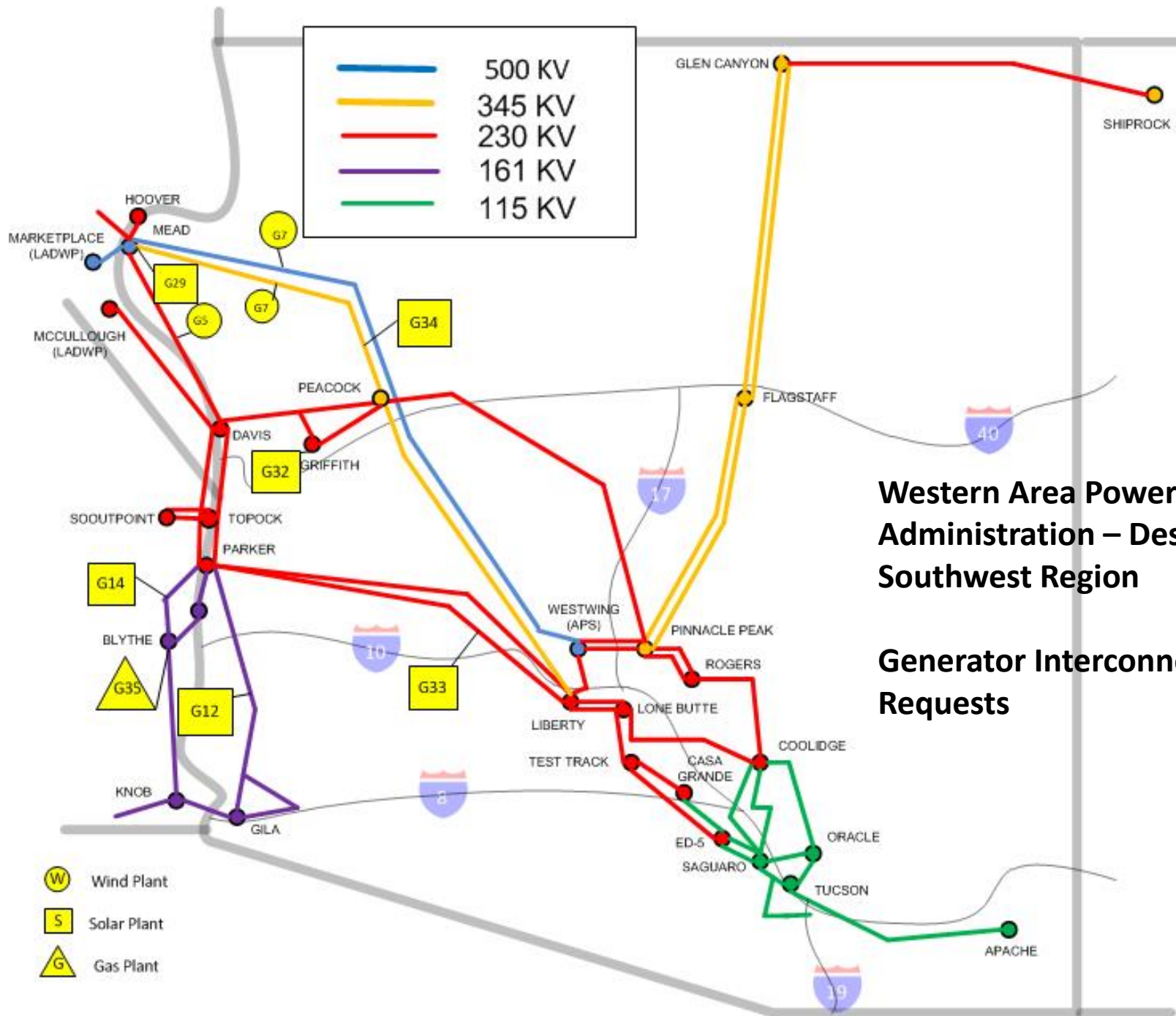
RETI 2.0 Western Outreach

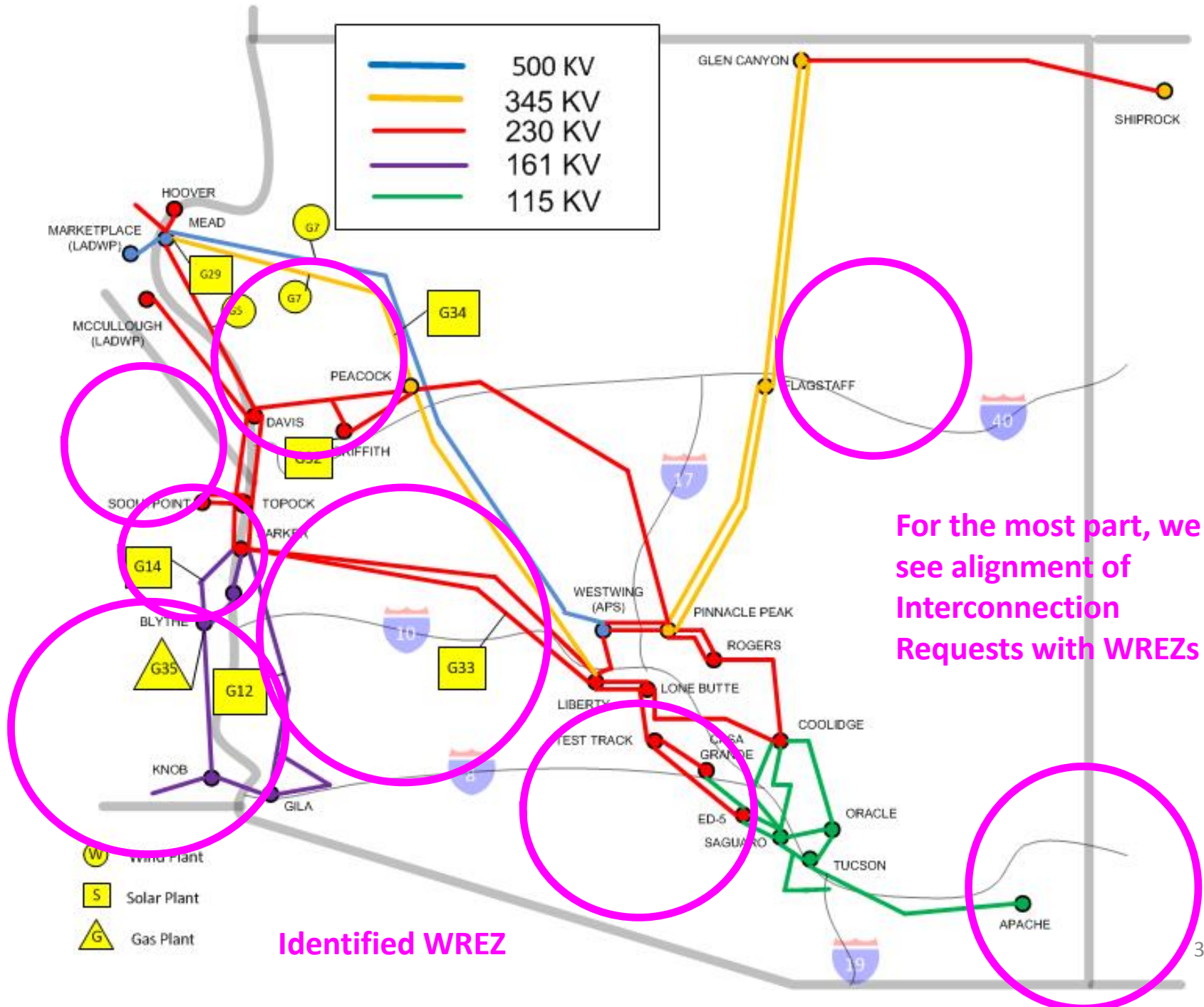
Patrick Harwood—Electrical Engineer

8/31/2016

Panel 2



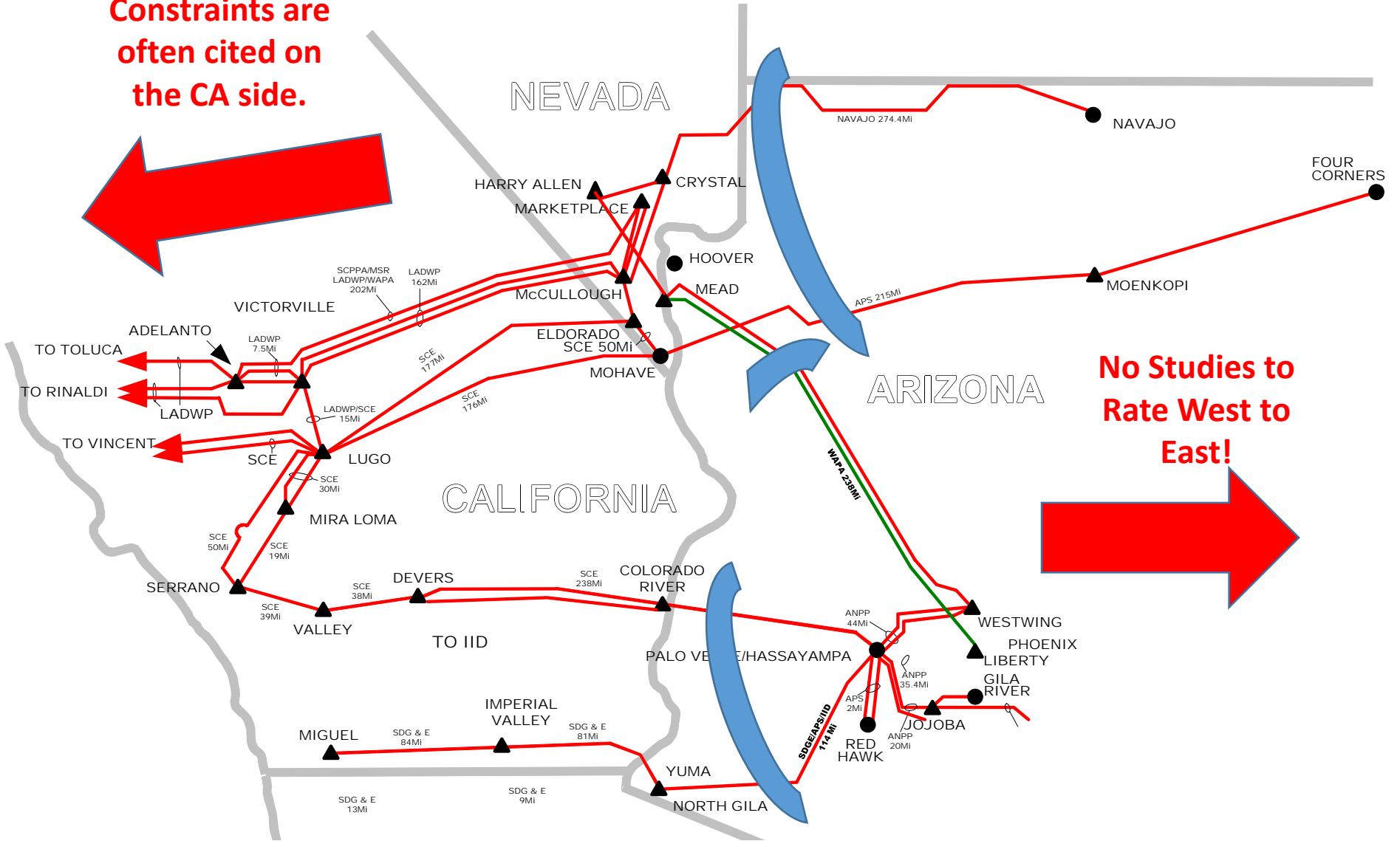
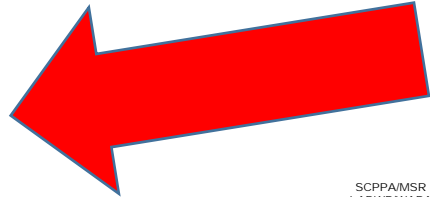




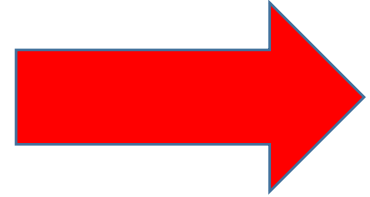
For the most part, we see alignment of Interconnection Requests with WREZs

Existing Transmission Capacity Moving Power to California – East of the Colorado River

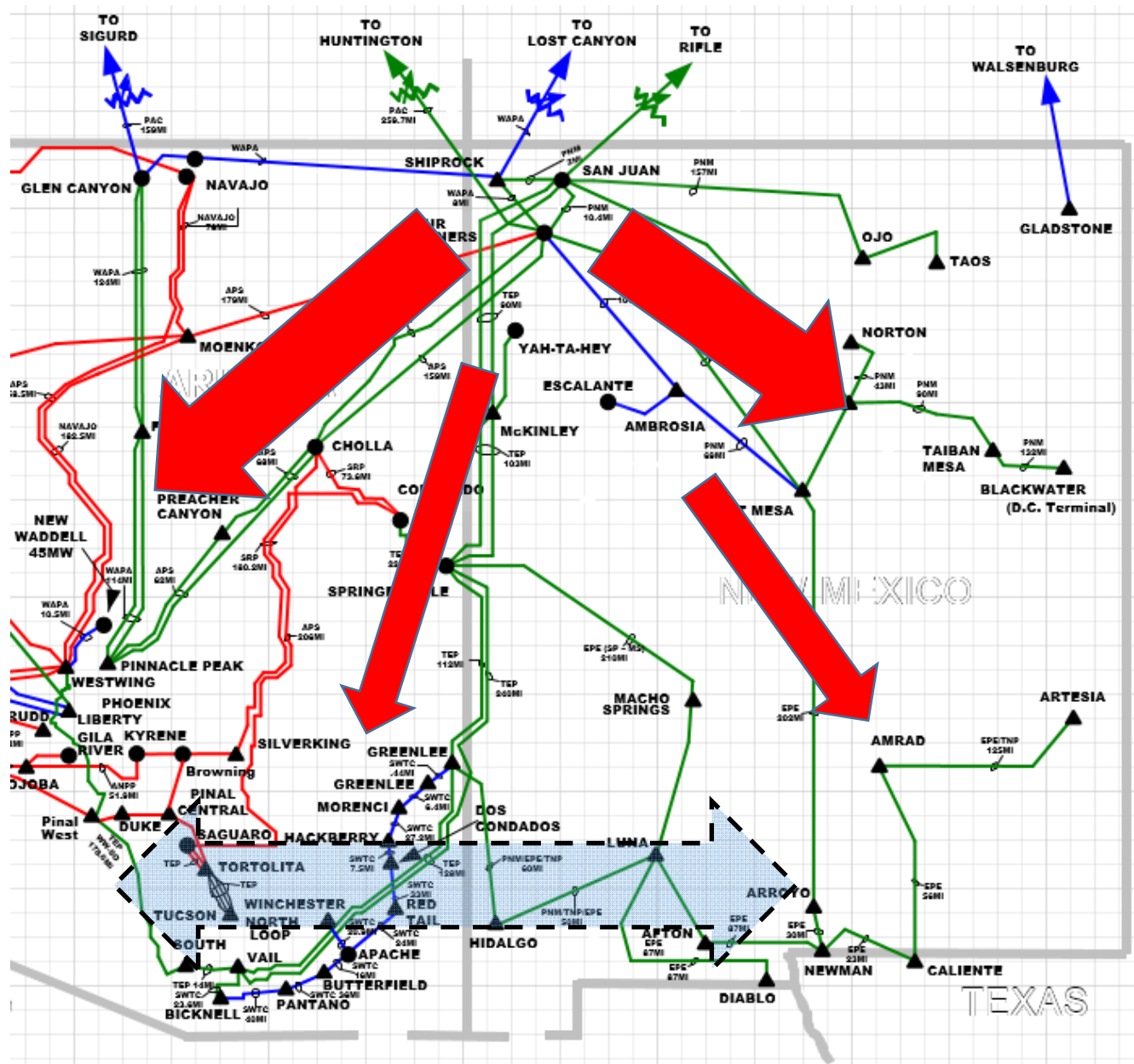
Constraints are often cited on the CA side.



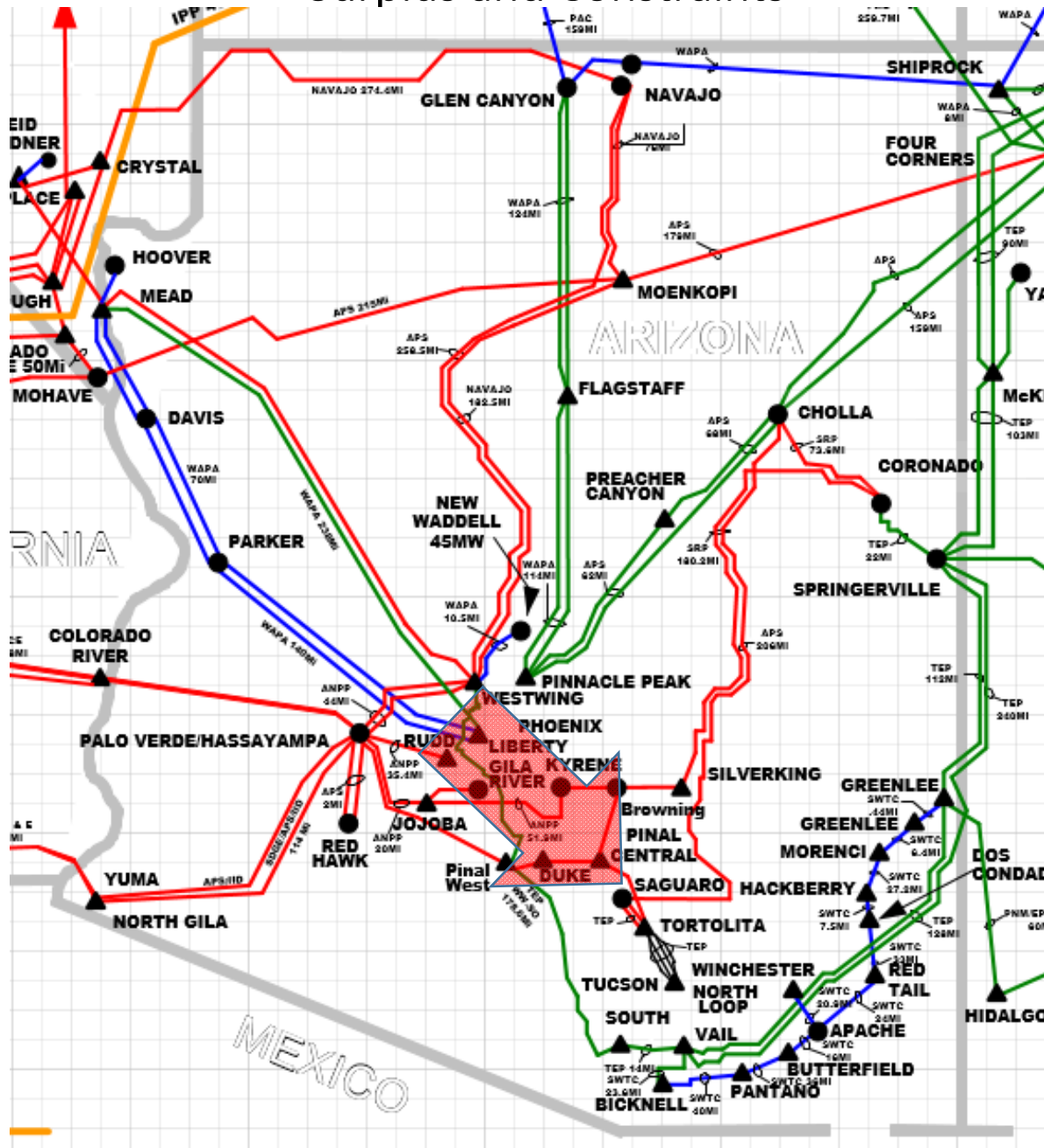
No Studies to Rate West to East!



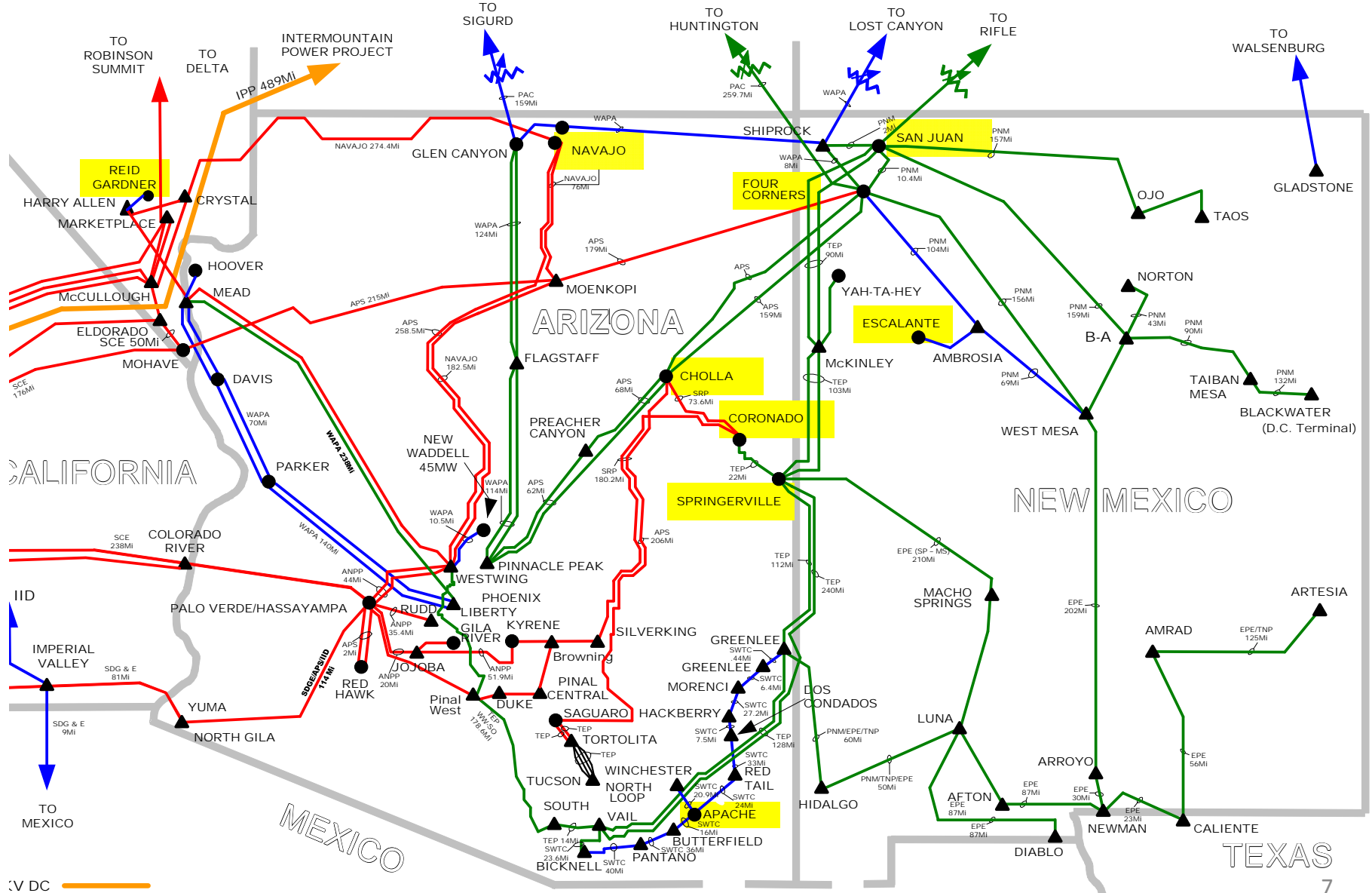
What about Paths from NM to CA, through AZ?



Surplus and Constraints



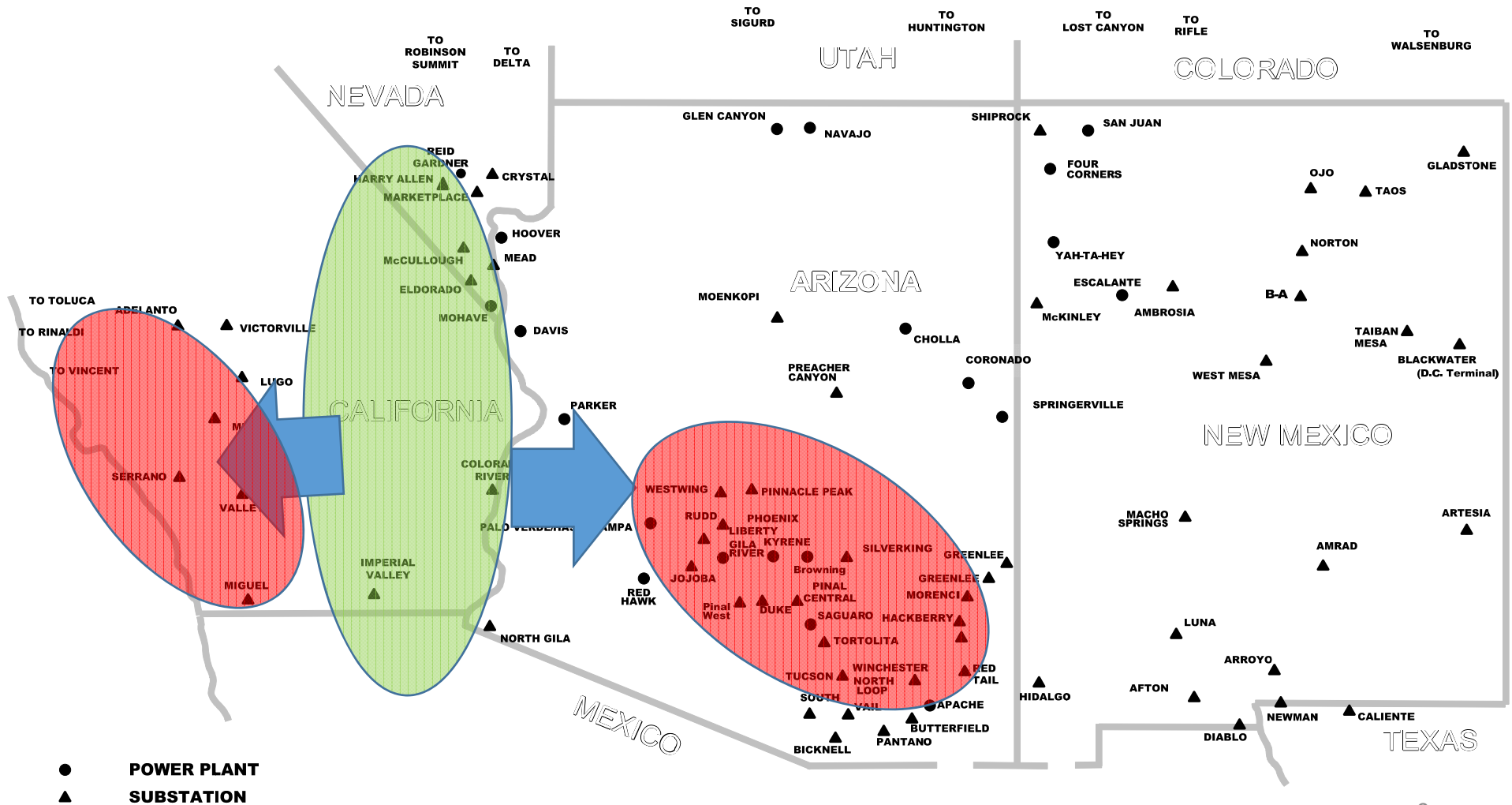
Coal Plant Closures



Other Issues:

- Sensing and Control Technologies?
 - Yes, but this is more of resource issue than a need to build transmission lines
- Grid-scale storage?
 - Only a couple of conceptual projects—very expensive
- Non-Transmission Alternatives?
 - Distributed generation and cost-effective distributed storage would be a total game-changer in industry, but hard to say when that will happen.
- Institutional Changes?
 - There are definitely opportunities to look into. Delivering renewable credits to California might be much more feasible than spending billions of dollars and decades to build interstate transmission lines that don't actually flow power.

A Potential High Level Summary?— Noon, over-generation in CA



A Potential High Level Summary?— Nightfall, heavy ramping to supply CA

