



INVESTING IN A CLEAN FUTURE



Austin Energy's Resource, Generation and
Climate Protection Plan to 2020 Update

April 23, 2014

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Austin Energy Briefing on Generation Retirements, Load forecast & Capacity Gap

Austin Generation Resource Planning Task Force



April 23, 2014

✓ Criteria for retirement

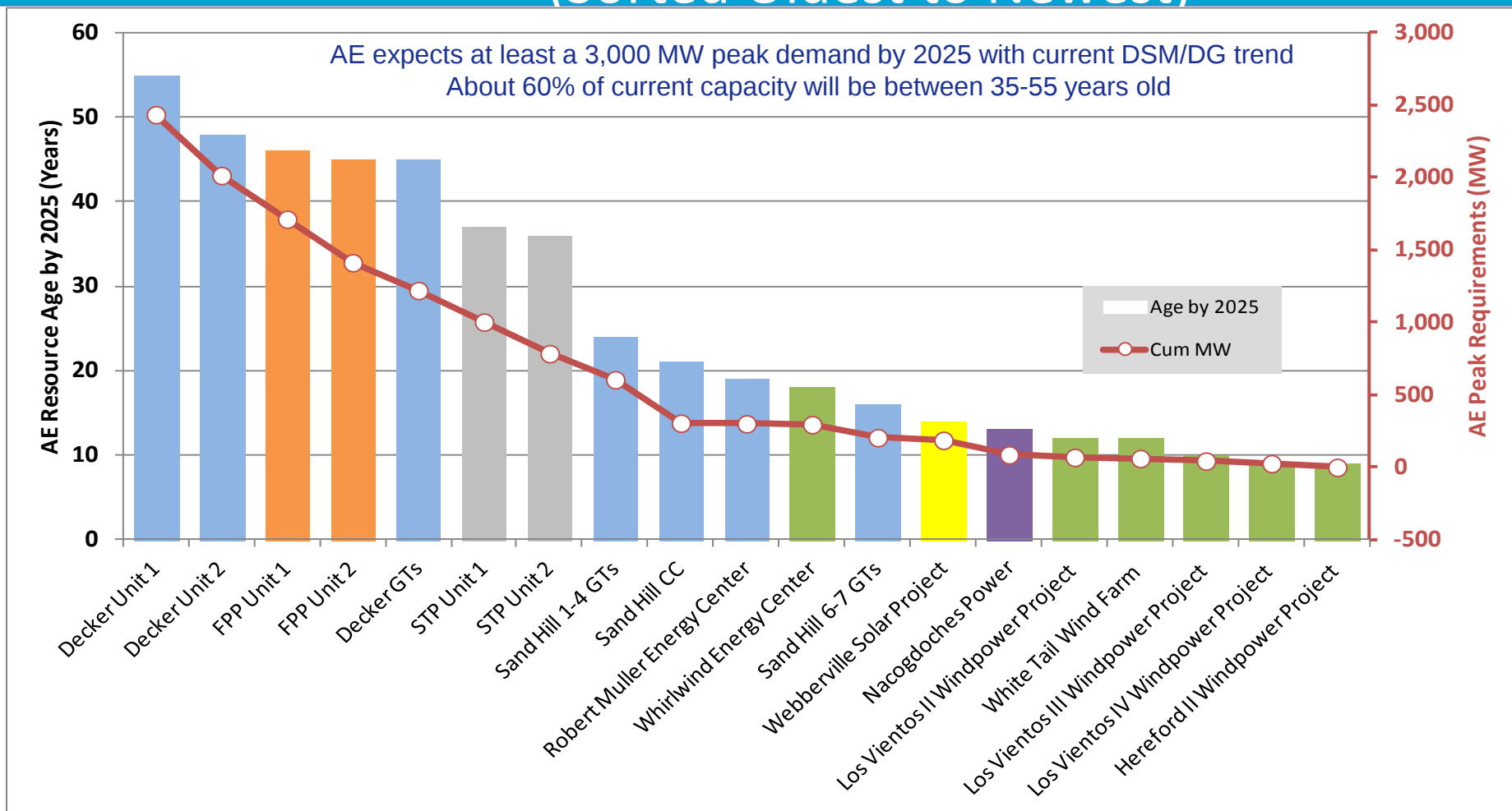
- Age of the Asset
- Underutilized or displaced by other efficient technologies
For Example: Lower Capacity Factor & Higher Heat rate
- Environmental Retrofits

✓ Retirement Considerations for Analysis:

- Decker & FPP in this planning cycle
 - Decker by the end of 2017 based on economic projections
 - FPP by the end 2025
- All the retirements need to be approved by ERCOT
- Post 2025 retirements addressed in future 2 year update cycles.

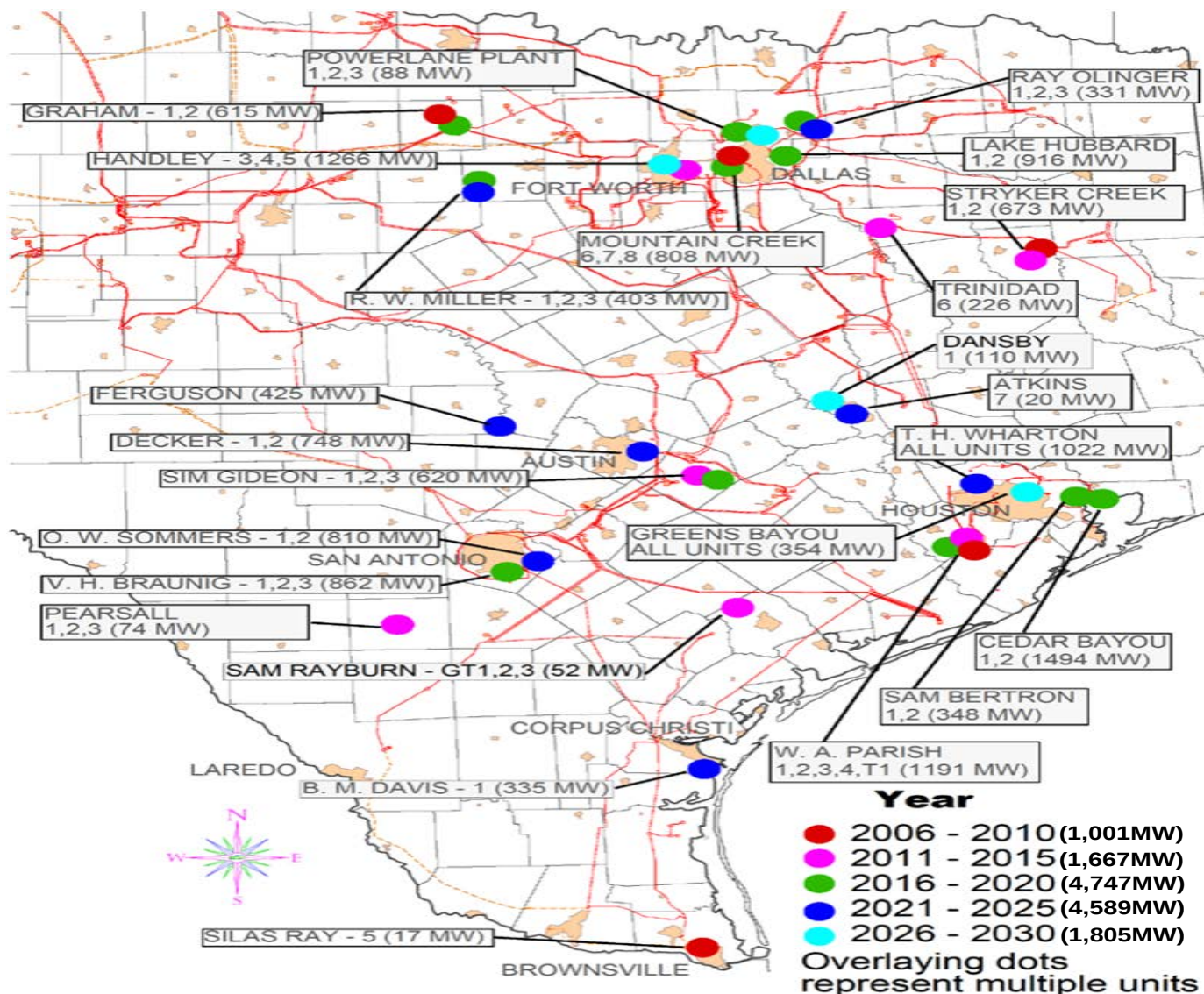


Age of AE Owned Assets/Contracts vs. MW Capacity (Sorted Oldest to Newest)

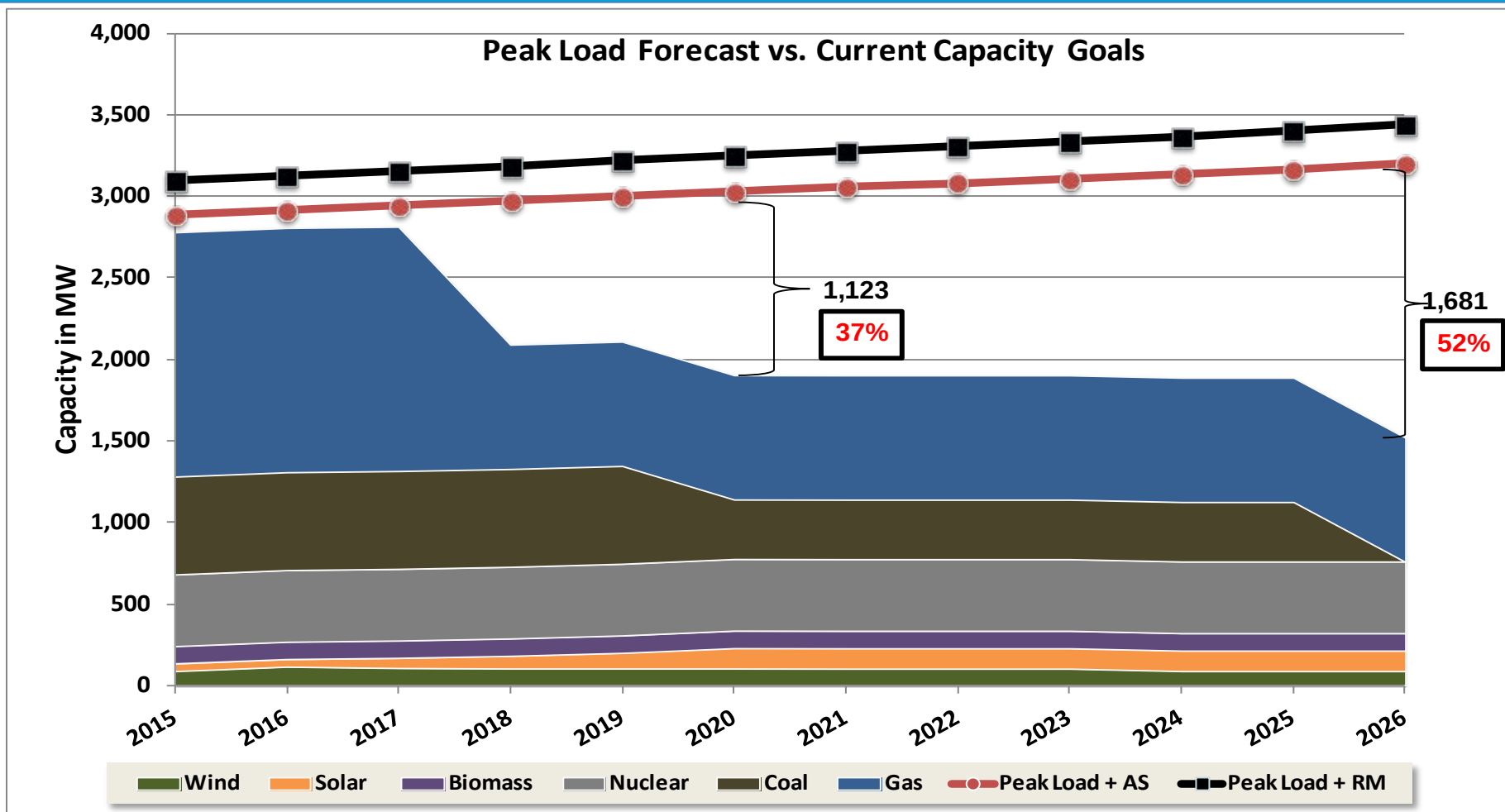


- Kunitz & Hackberry Wind PPA are not included in this chart as the contracts expire before 2025
- The 150 MW of new solar that is under negotiation is not represented in the chart.
- Wind contributions to the peak is based on ERCOT CDR assumption i.e. 8.75%
- Solar contributions to the peak is based on AE 2014 VOS Estimates i.e. 62%





AE Peak Load Forecast vs. Resource Capacity Gap



- Includes all the renewables to meet the 35% renewable goal including 200 MW Solar goal
- Wind contributions to the peak is based on ERCOT CDR assumption i.e. 8.75%
- Solar contributions to the peak is based on AE 2014 VOS Estimates i.e. 62%
- Does not include the Sand Hill CC expansion

Appendix



Age of AE Resources

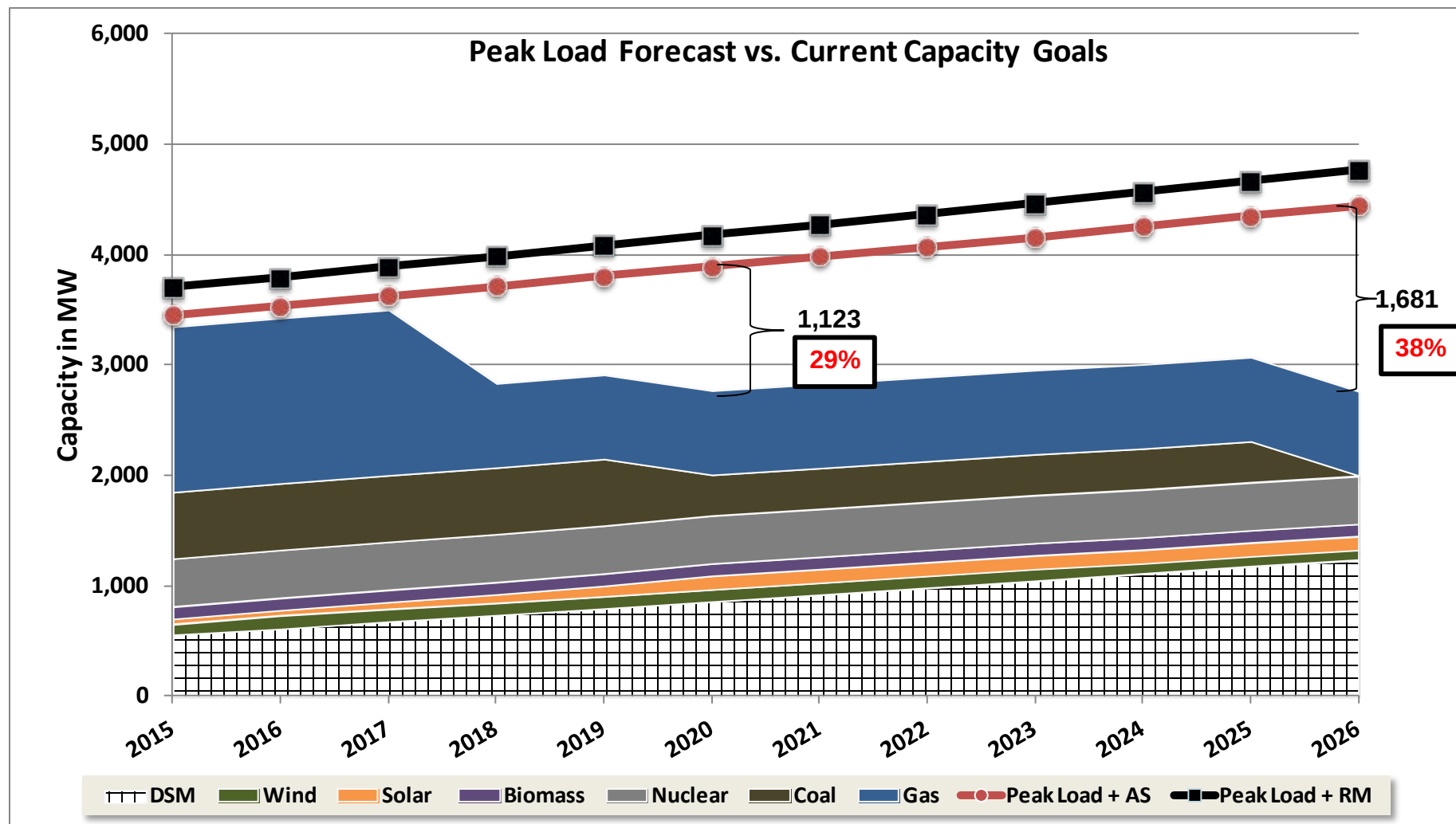
AE Resources Age by 2025 Sorted Oldest to Newest

Resource	Type	Age	MW
Decker Unit 1	Gas	55	315
Decker Unit 2	Gas	48	420
FPP Unit 1	Coal	46	302
FPP Unit 2	Coal	45	300
Decker GTs	Gas	45	192
STP Unit 1	Nuke	37	218
STP Unit 2	Nuke	36	218
Sand Hill 1-4 GTs	Gas	24	180
Sand Hill CC	Gas	21	300
Robert Muller Energy Center	CHP	19	5
Whirlwind Energy Center	Wind	18	5
Sand Hill 6-7 GTs	Gas	16	90
Webberville Solar Project	SolarPV	14	19
Nacogdoches Power	Biomass	13	100
Los Vientos II Windpower Project	Wind	12	18
White Tail Wind Farm	Wind	12	8
Los Vientos III Windpower Project	Wind	10	18
Los Vientos IV Windpower Project	Wind	9	18
Hereford II Windpower Project	Wind	9	26





AE Peak Load Forecast without DSM vs. Resource Capacity Gap



- The forecast assumes that DSM beyond 2020 grows at the same rate as previous years

