

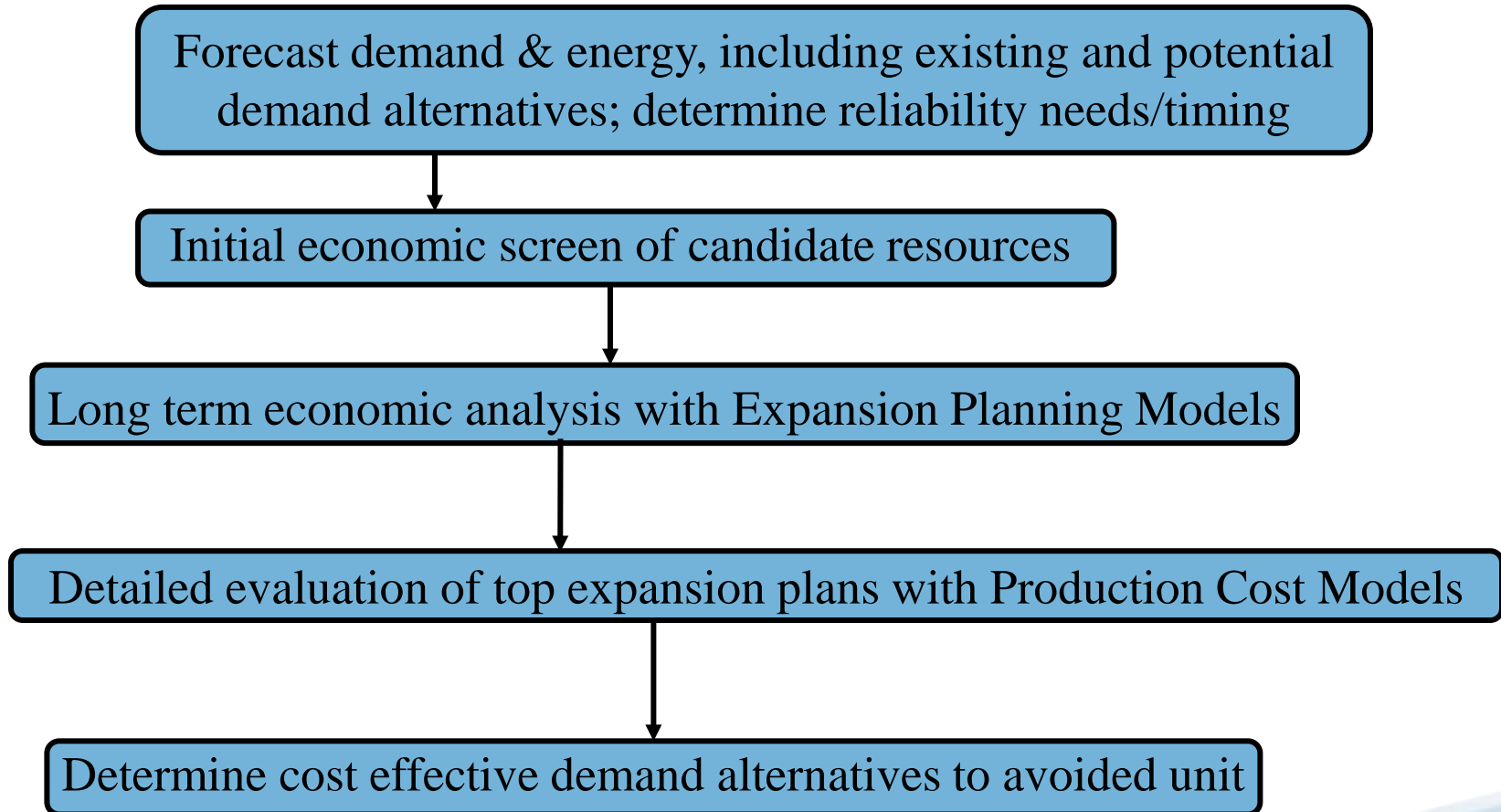
September 12, 2017

TYSP Presentation Tampa Electric

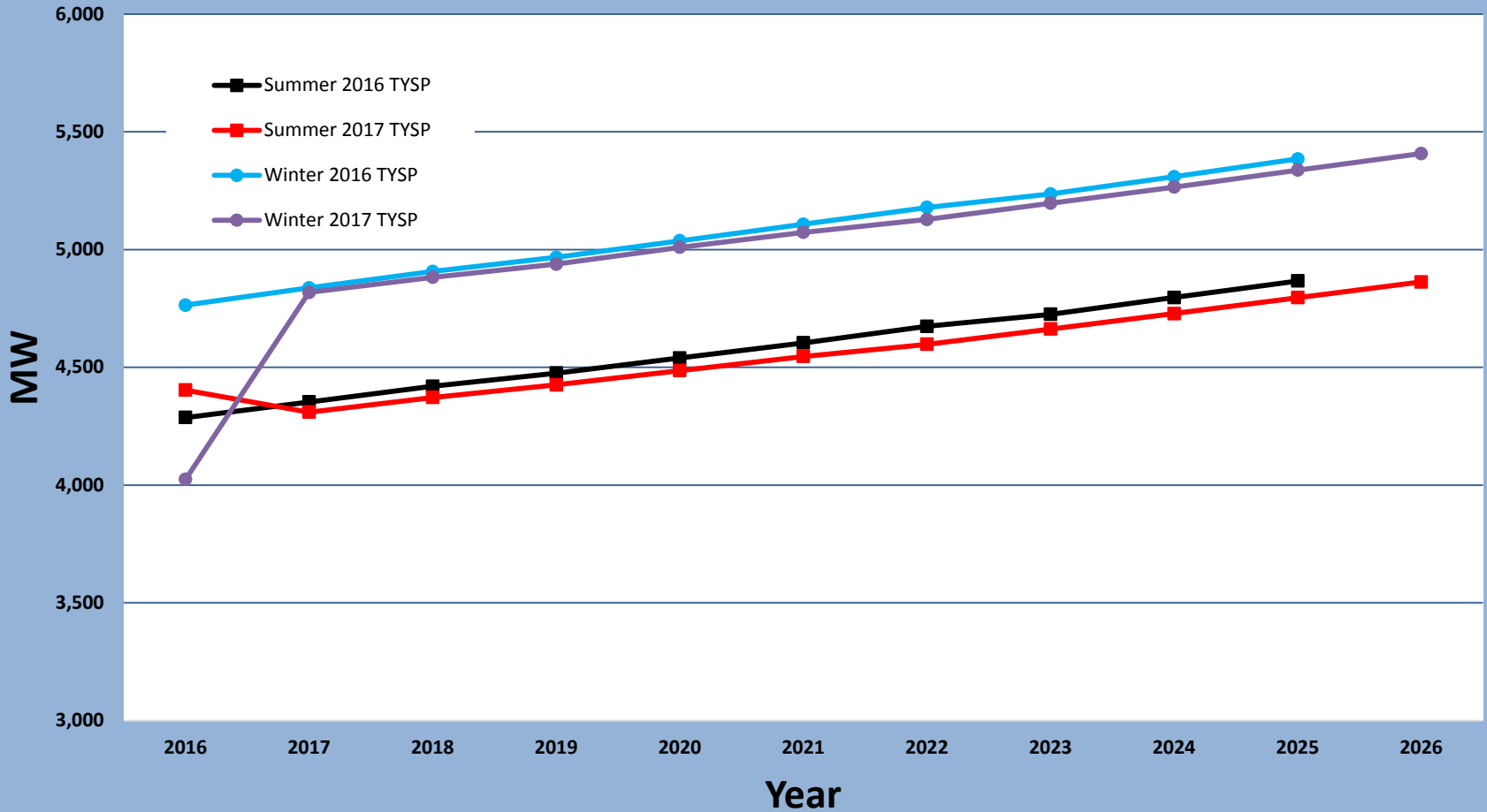
Ten Year Site Plan (TYSP)

- TEC's IRP process is designed to evaluate demand-side and supply-side resources on a comparable and consistent basis to satisfy future energy requirements in a cost-effective and reliable manner
- The process incorporates a reliability analysis to determine timing of future needs and an economic analysis to determine what resource alternatives best meet future system demand and energy requirements.

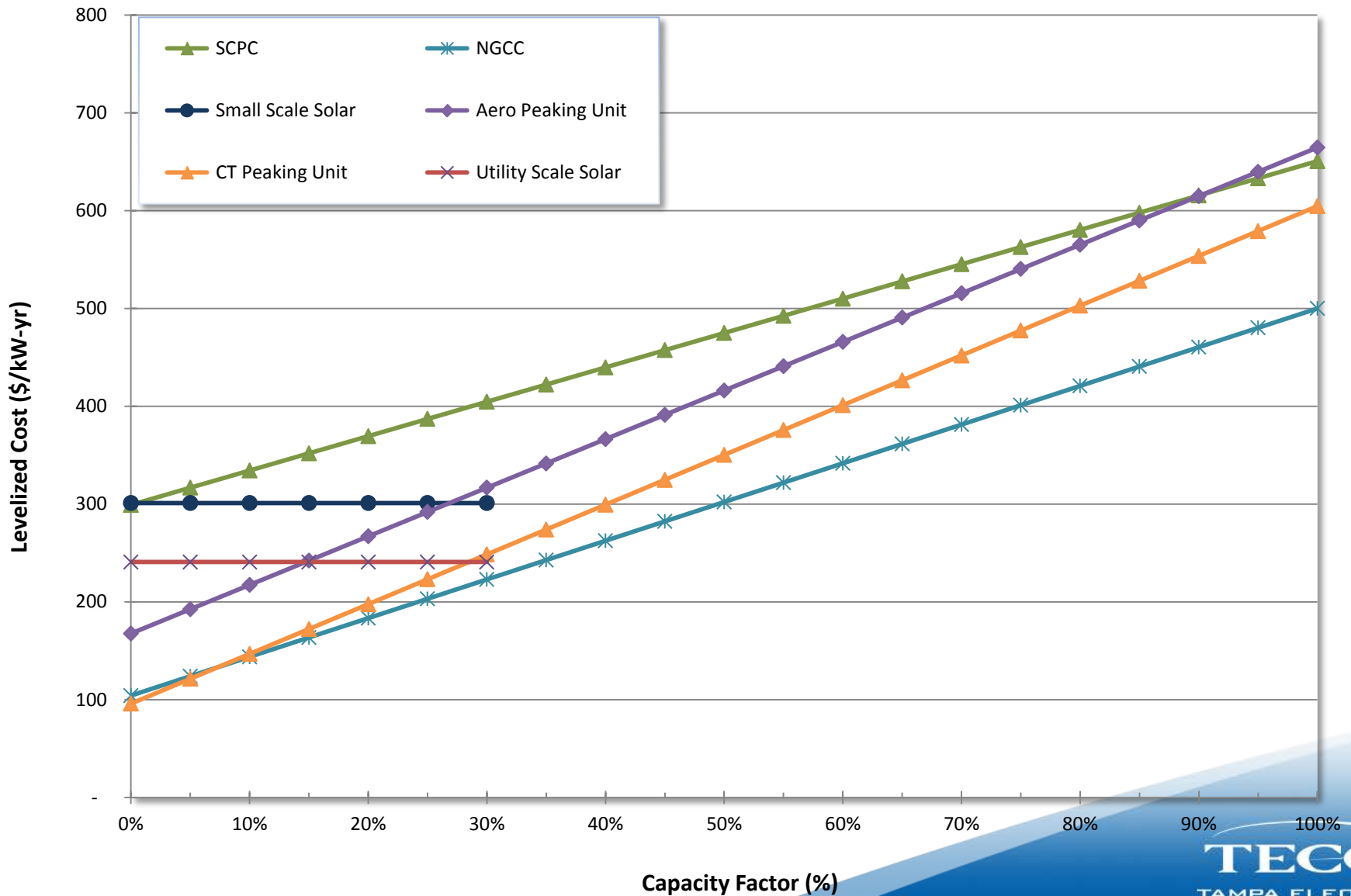
IRP process



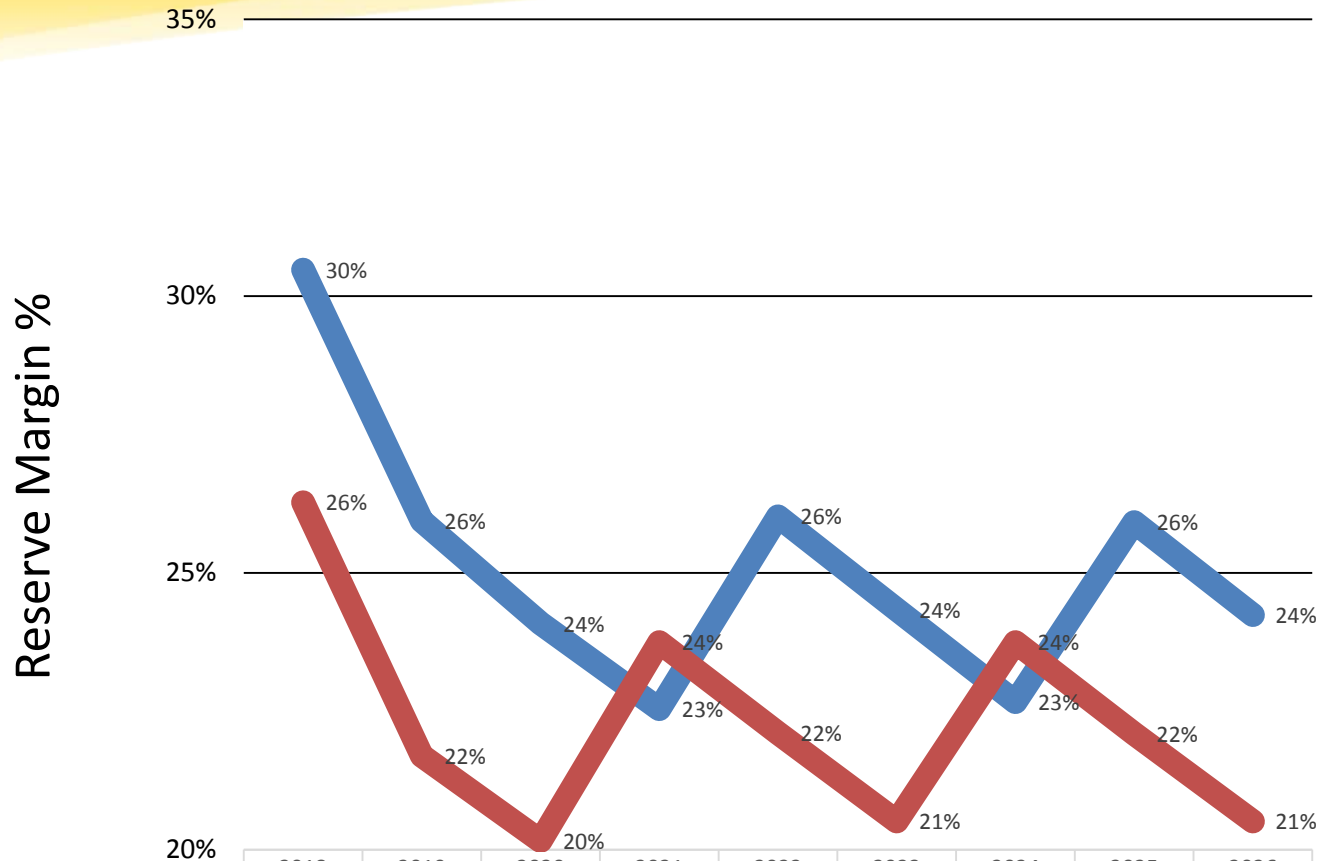
TECO Peak Load Forecast Comparison (MW)



Generation Technology Screening Curves



Reserve Margin 2017 - 2026



	2018	2019	2020	2021	2022	2023	2024	2025	2026
Winter Reserve Margin	30%	26%	24%	23%	26%	24%	23%	26%	24%
Summer Reserve Margin	26%	22%	20%	24%	22%	21%	24%	22%	21%

Plant Name	Commercial In-Service Mo/Yr	Net Capability	
		Summer MW	Winter MW
Polk 2 CC	01/17	1,063	1,195
Big Bend Solar	02/17	19.4	19.4
Future CT 1	05/21	204	220
Future CT 2	05/24	204	220

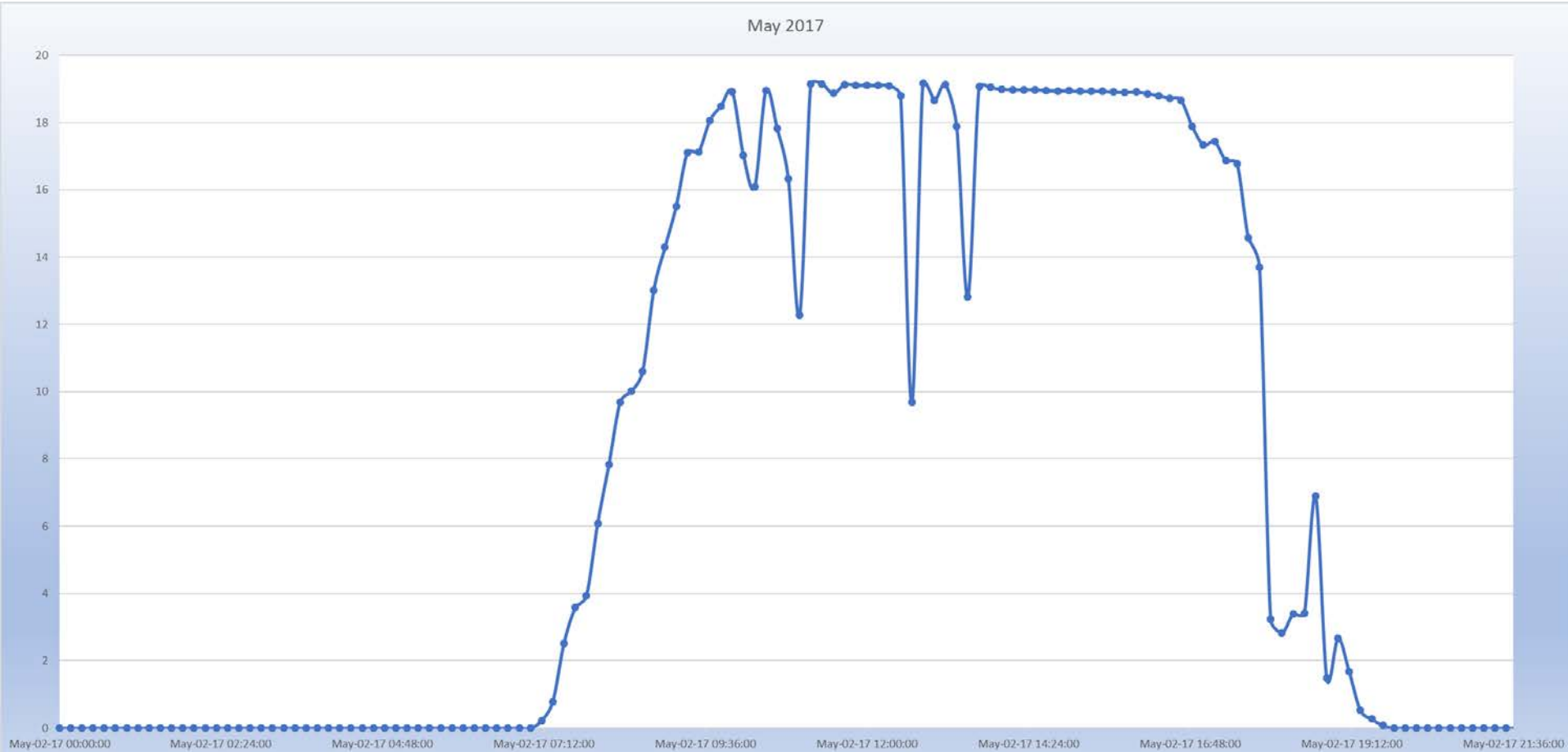




Solar Update

- Big Bend 19.4 MW_{AC} is in full operation
- Planning Considerations
 - Strategy to deal with intermittency
 - Understand future impacts of renewable resources
 - The impact of storage on Solar

BB Solar Profile – May 2



BB Solar Profile – July 2

July 2017

