



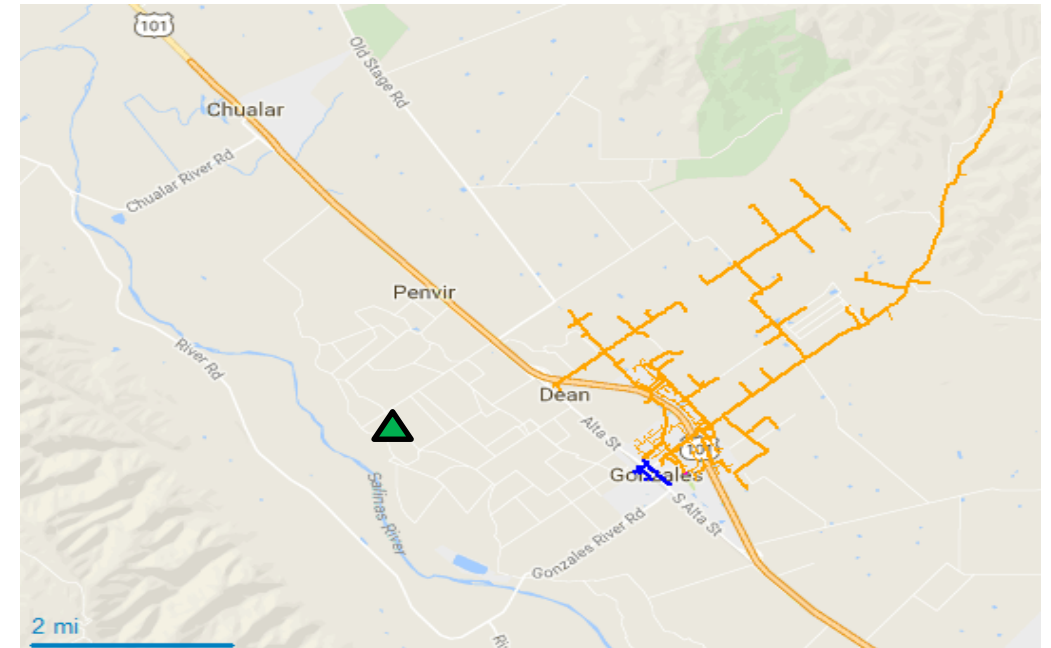
DER Growth: Customer Data

Appendix F



Gonzales Bank 3 Location Overview

- Location: Gonzales Substation, Monterey County
- Summer peaking area
- Electrical Service:
 - 3-phase, 6.67 MVA bank with two 12kV feeders (Gonzales 1101 and 1102)
 - Normal operating capacity of bank: 6.6 MW
- 1,895 electric service points. Customer base:
 - Residential (1,665 service points)
 - Commercial and Industrial (169 service points)
 - Agricultural (57 service points)
 - Other (4 service point)

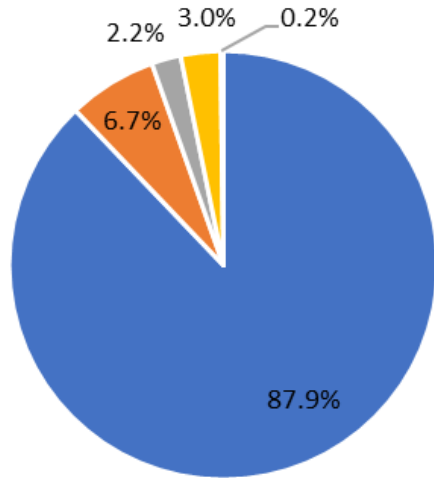


Current 2017				Forecast					
Observed Peak Load (MW)	Installed DERs			Year	Peak Load (1 in 10 Year)	Incremental DER Growth			
	PV (MW)	Landfill Gas Plant (MW)	ES (MW)			PV (MW)	ES (MW)	EE (MW)	DR (MW)
5.7	0.65	1.42	0	2021	6.4	0.25	0	0.07	0.02
				2025	7.1	0.52	0	0.14	0.02



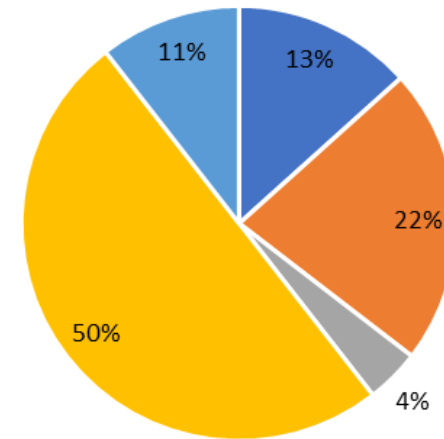
Customer Composition Served by Gonzales Bank 3

Total Service Points by Sector



- Residential
- Commercial
- Industrial
- Agricultural
- Other

Peak Day Demand by Sector



Customer Sector	Total Service Points*	Peak Day Demand (MW)
Residential	1,665	0.76
Commercial	127	1.26
Industrial	42	0.23
Agricultural	57	2.85
Other	4	0.6

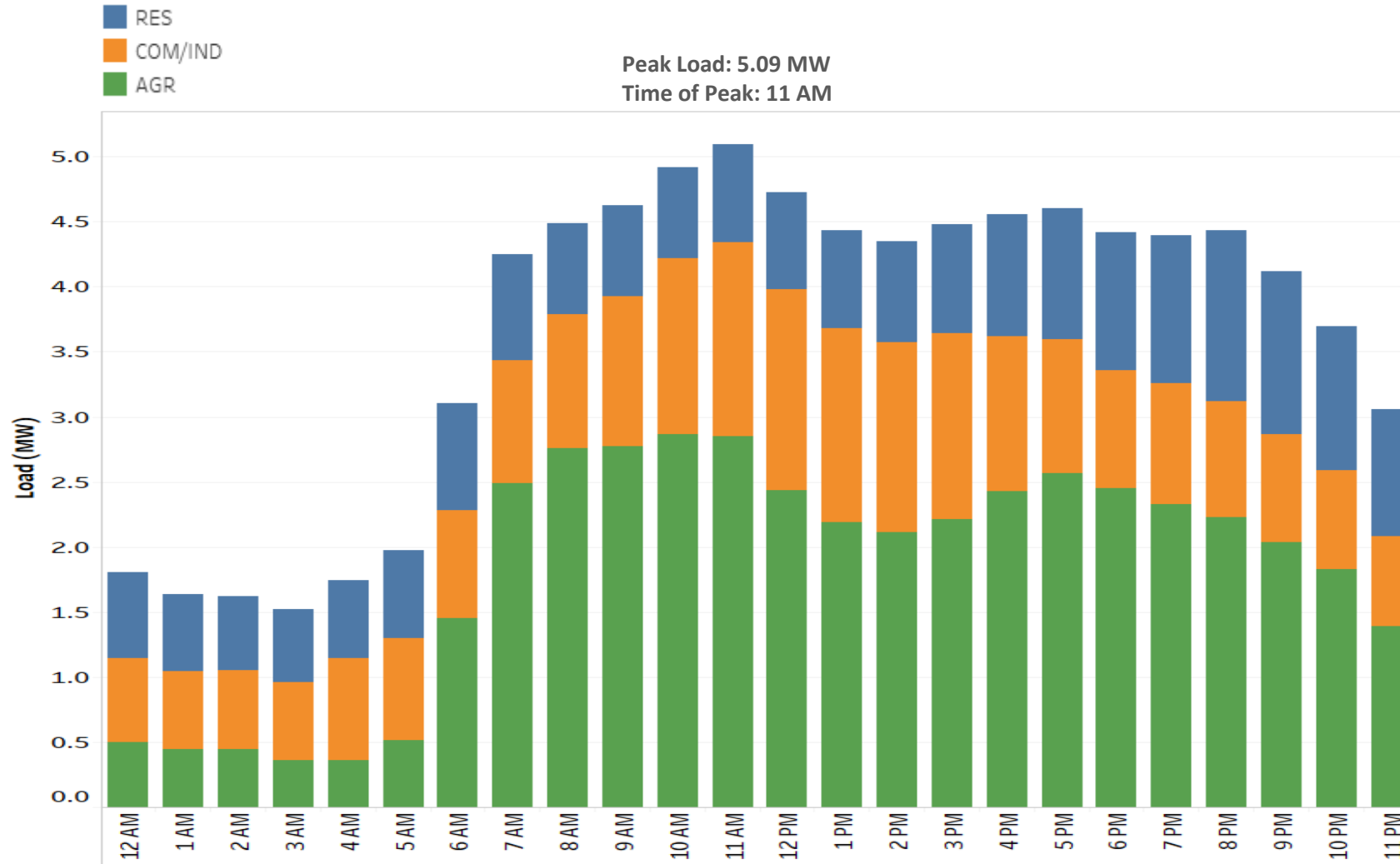
PV Interconnections**		Other DG Interconnections**	
# of Customer PV Installations	Total PV Capacity (MW)	# of Customer Other Installations	Total Capacity (MW)
179	0.65	1	1.42

* Service point count as of Oct 31, 2018

** Interconnection values based on Oct 31, 2018 data

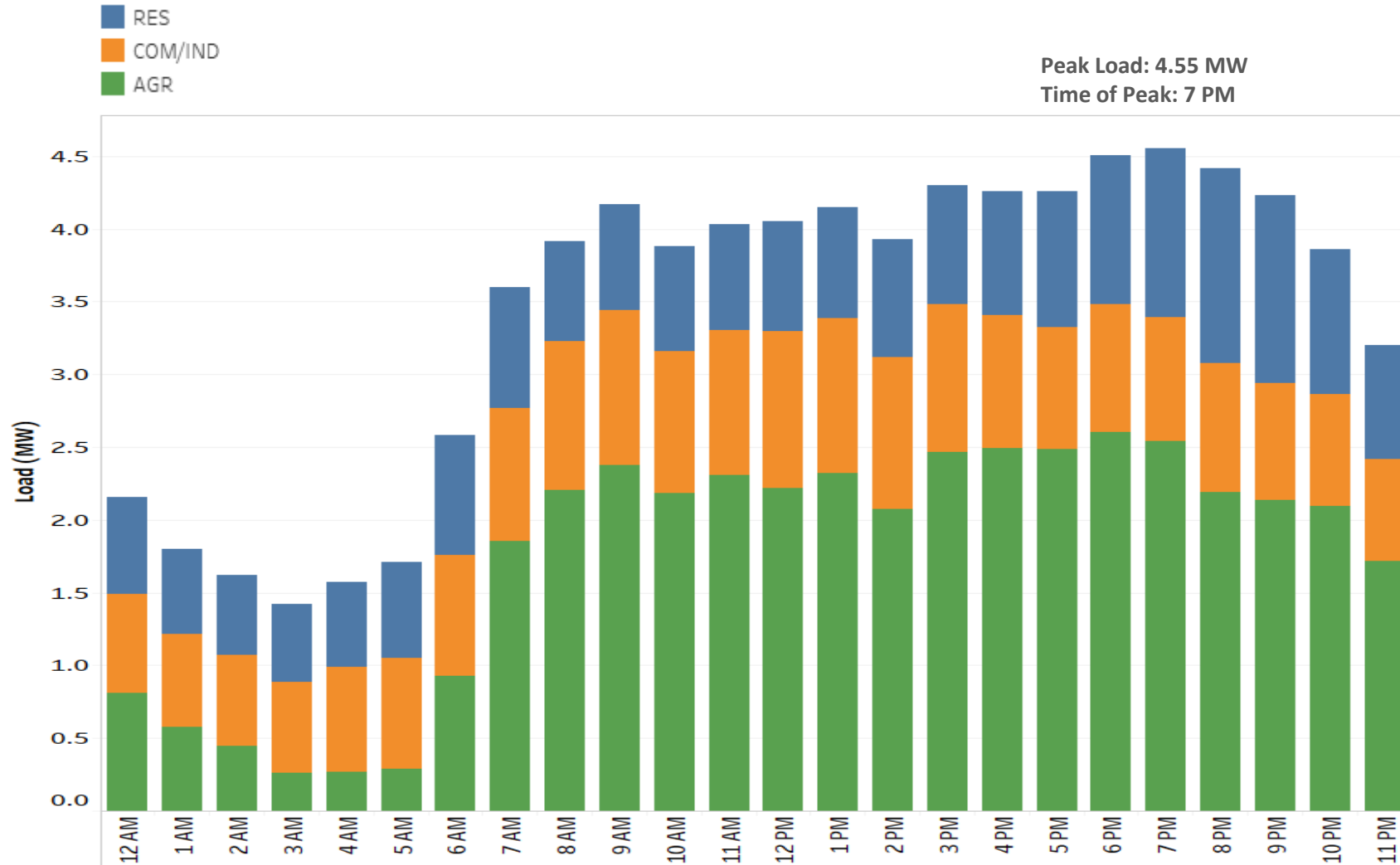


Peak Load Day-September 2017: Bank 3 Load by Customer Type



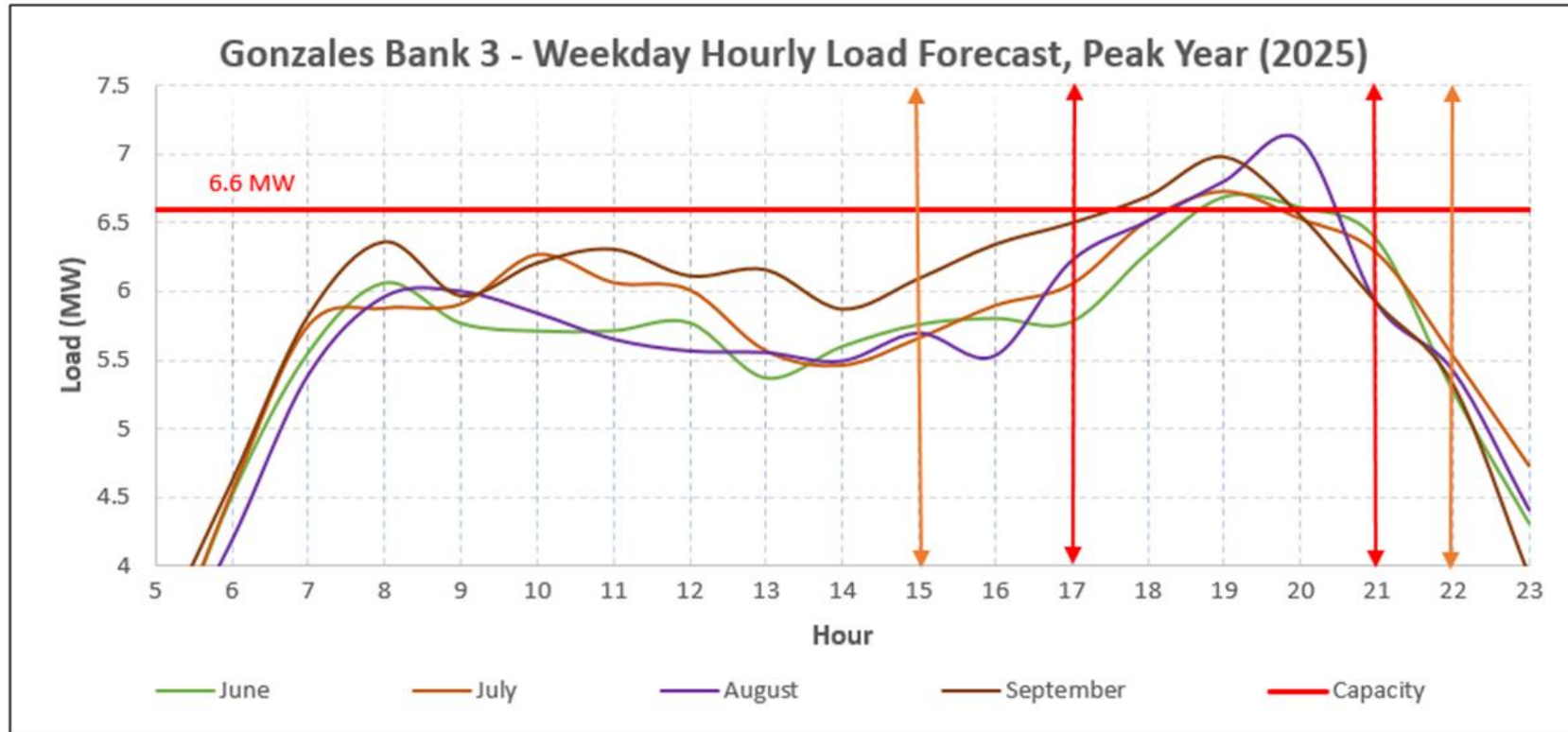


Evening Peak Load Day-August 2017: Bank 3 Load by Customer Type





Distribution Capacity Need: Gonzales Bank 3 Loading Forecast: Evening Peak

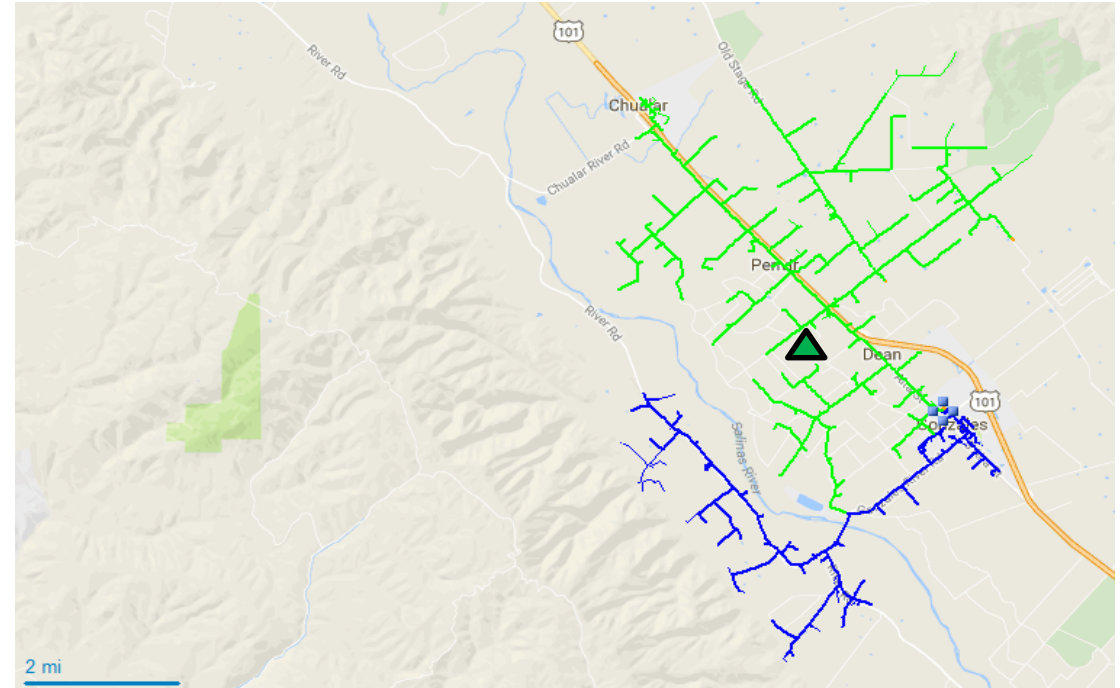


Distribution Capacity Need (MW)	0.5
Delivery Months to Schedule DERs	Jun - Sep
Duration of Need (Hours)	5 PM – 9 PM
Delivery Days	Monday - Friday
Number of Need Days in Year	12



Gonzales Bank 4 Location Overview

- Location: Gonzales Substation, Monterey County
- Summer peaking area
- Electrical Service:
 - 3-phase, 16 MVA bank with two 12kV feeders (Gonzales 1103 and 1104)
 - Normal operating capacity of bank: 15.84 MW
- 1,223 electric service points. Customer base:
 - Residential (827 service points)
 - Commercial and Industrial (181 service points)
 - Agricultural (206 service points)
 - Other (9 service points)

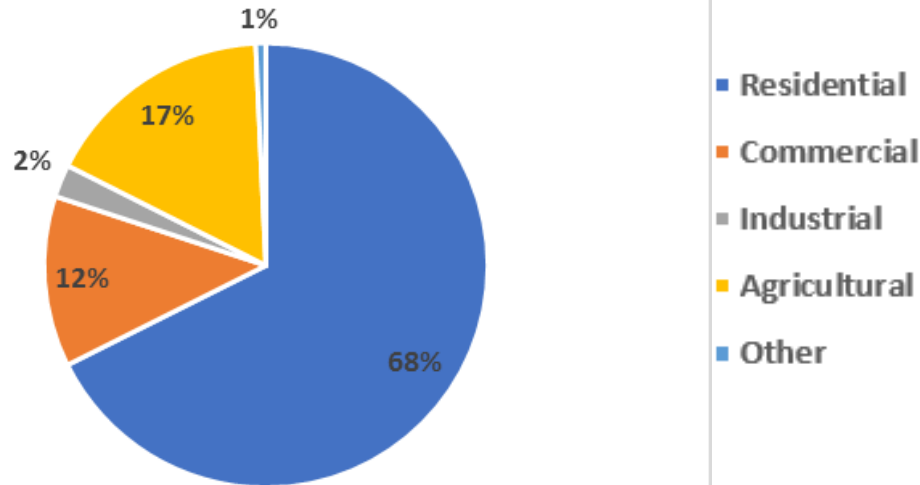


Current 2017				Forecast					
Observed Peak Load (MW)	Installed DERs			Year	Peak Load (1 in 10 Year)	Incremental DER Growth			
	PV (MW)	Wind (MW)	ES (MW)			PV (MW)	ES (MW)	EE (MW)	DR (MW)
14.7	0.69	1	0	2021	17.1	0.36	0	0.15	0.03
				2025	16.8	0.74	0	0.31	0.03

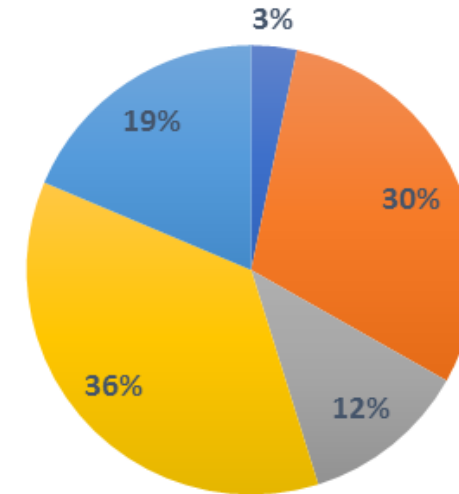


Customer Composition Served by Gonzales Bank 4

Total Service Points by Sector



Peak Day Demand by Sector



Customer Sector	Total Service Points*	Peak Day Demand (MW)
Residential	827	0.48
Commercial	152	4.4
Industrial	29	1.76
Agricultural	206	5.32
Other	9	2.74

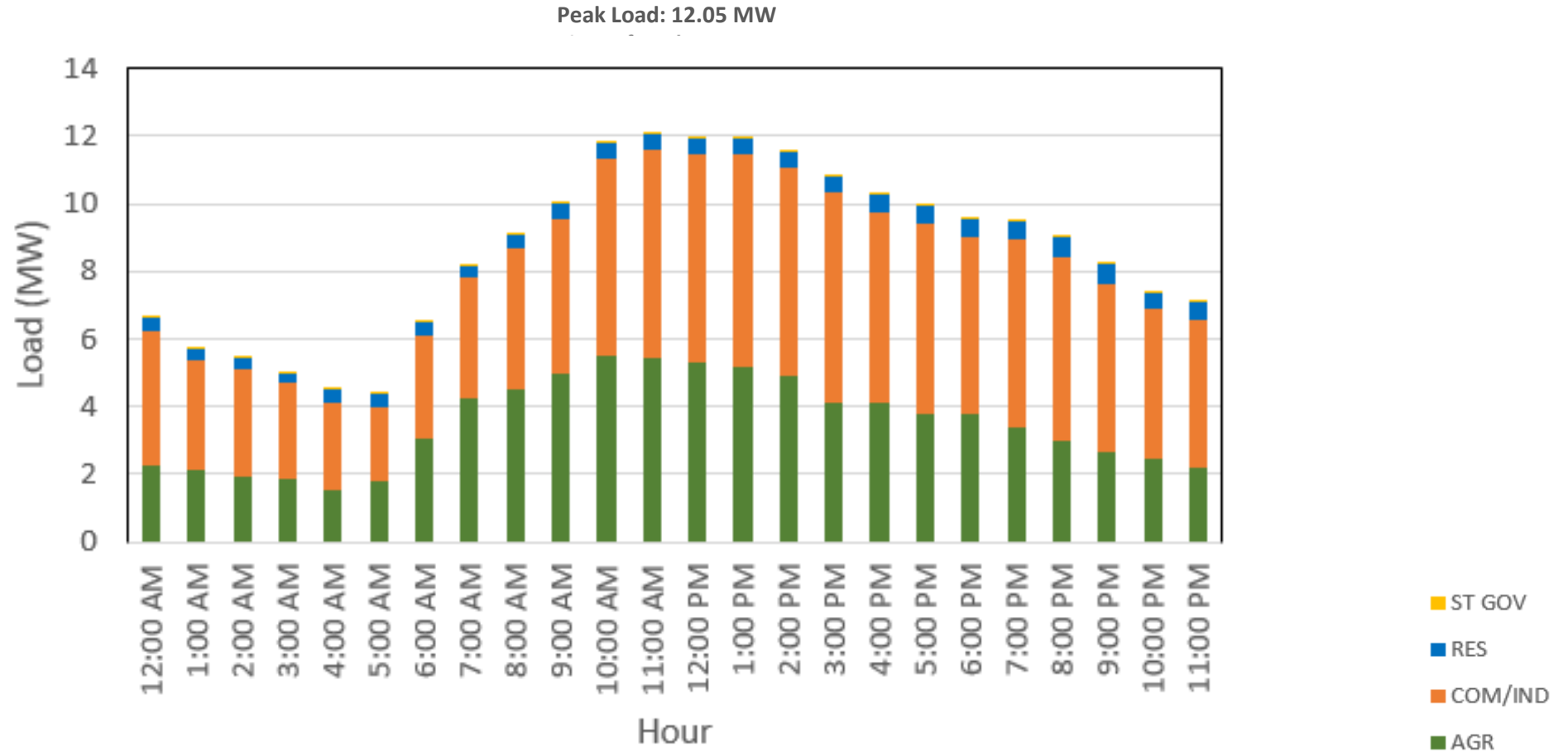
* Service point count as of Oct 31, 2018

PV Interconnections**		Other DG Interconnections**	
# of Customer PV Installations	Total PV Capacity (MW)	# of Customer Other Installations	Total Capacity (MW)
23	0.69	1	1

** Interconnection values based on Oct 31, 2018 data

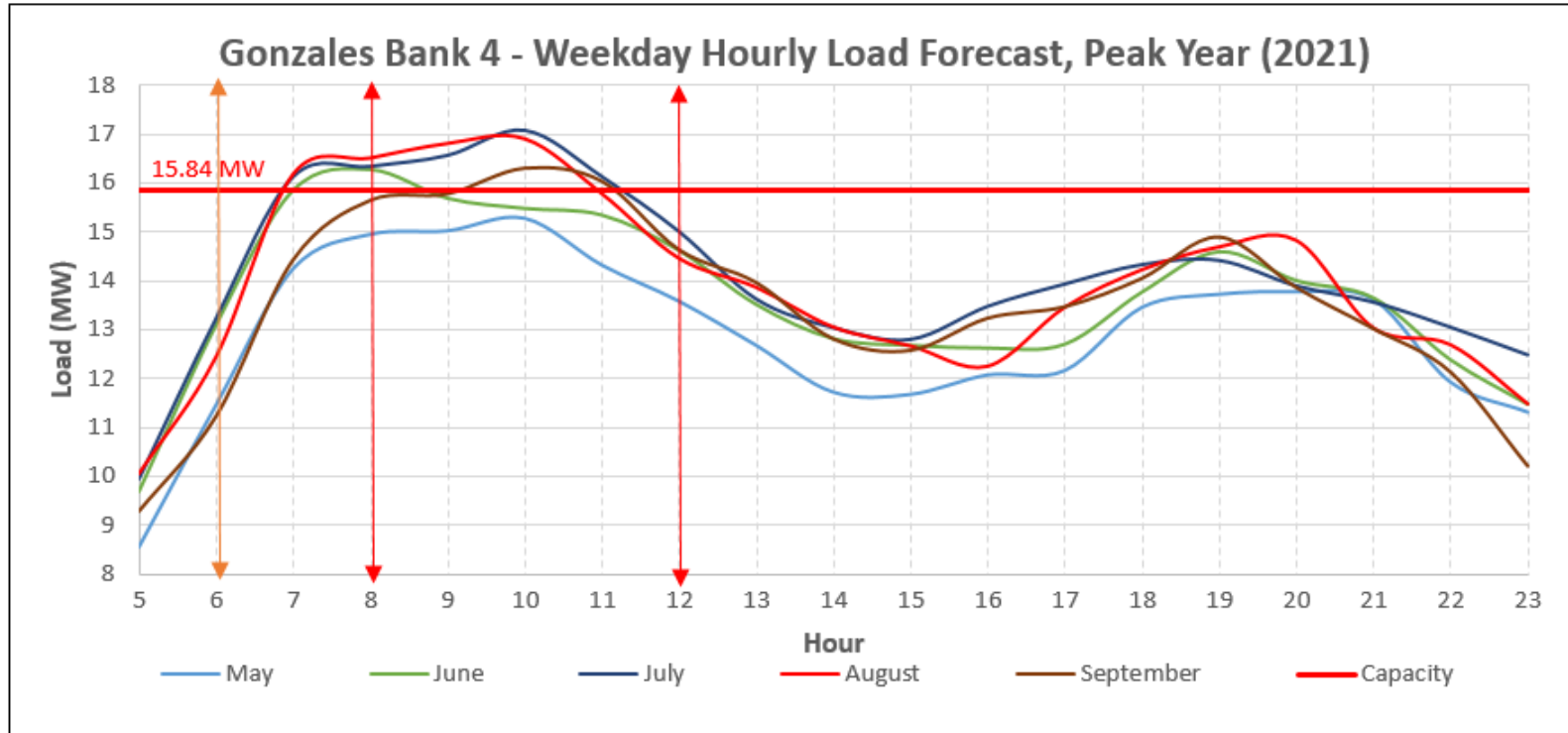


Peak Load Day-September 2017: Bank 4 Load by Customer Type





Distribution Capacity Need: Gonzales Bank No. 4 Loading Forecast



Distribution Capacity Need (MW)	1.5
Delivery Months to Schedule DERs	Jun - Sep
Duration of Need (Hours)	8 AM – 12 PM*
Delivery Days	Everyday of the Week**
Number of Need Days in Year	12
Net Loading Restriction Hours	6 AM – 12 PM***

*SCADA data from 2018 indicates that the peak occurs between 8am and noon.

**SCADA data shows load profile for Saturday to be close to a weekday profile.

***Applicable only when called