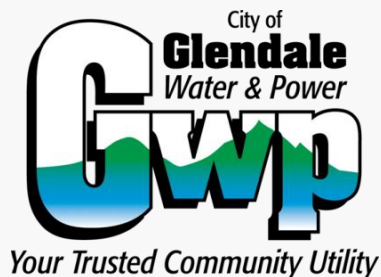


Glendale Water & Power

Clean Energy RFP Pre-Bid Informational Meeting

Stephen M. Zurn – General Manager

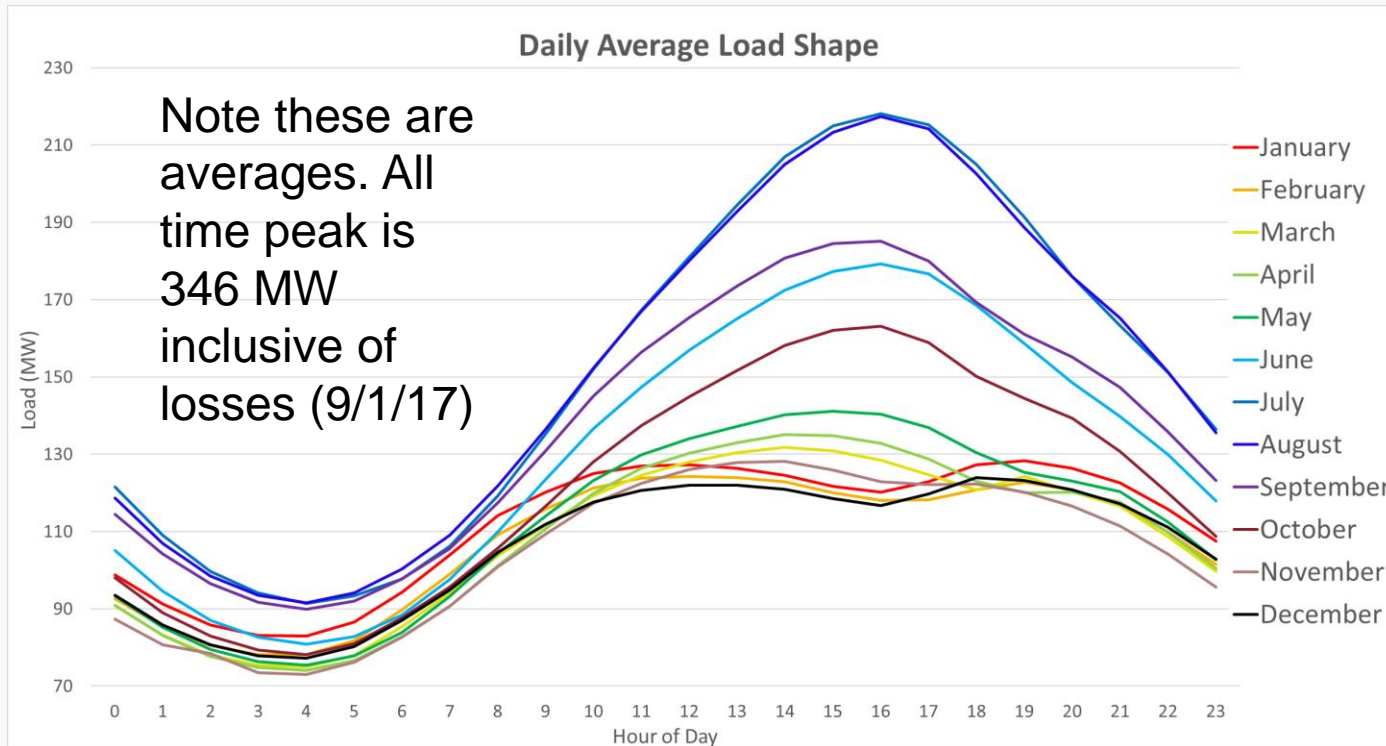
May 30, 2018



Agenda

- Background: About GWP
- Glendale's energy sources
- GWP's need for capacity, energy, and RPS
- The Clean Energy RFP
- Response templates
- Evaluation criteria
- Q&A

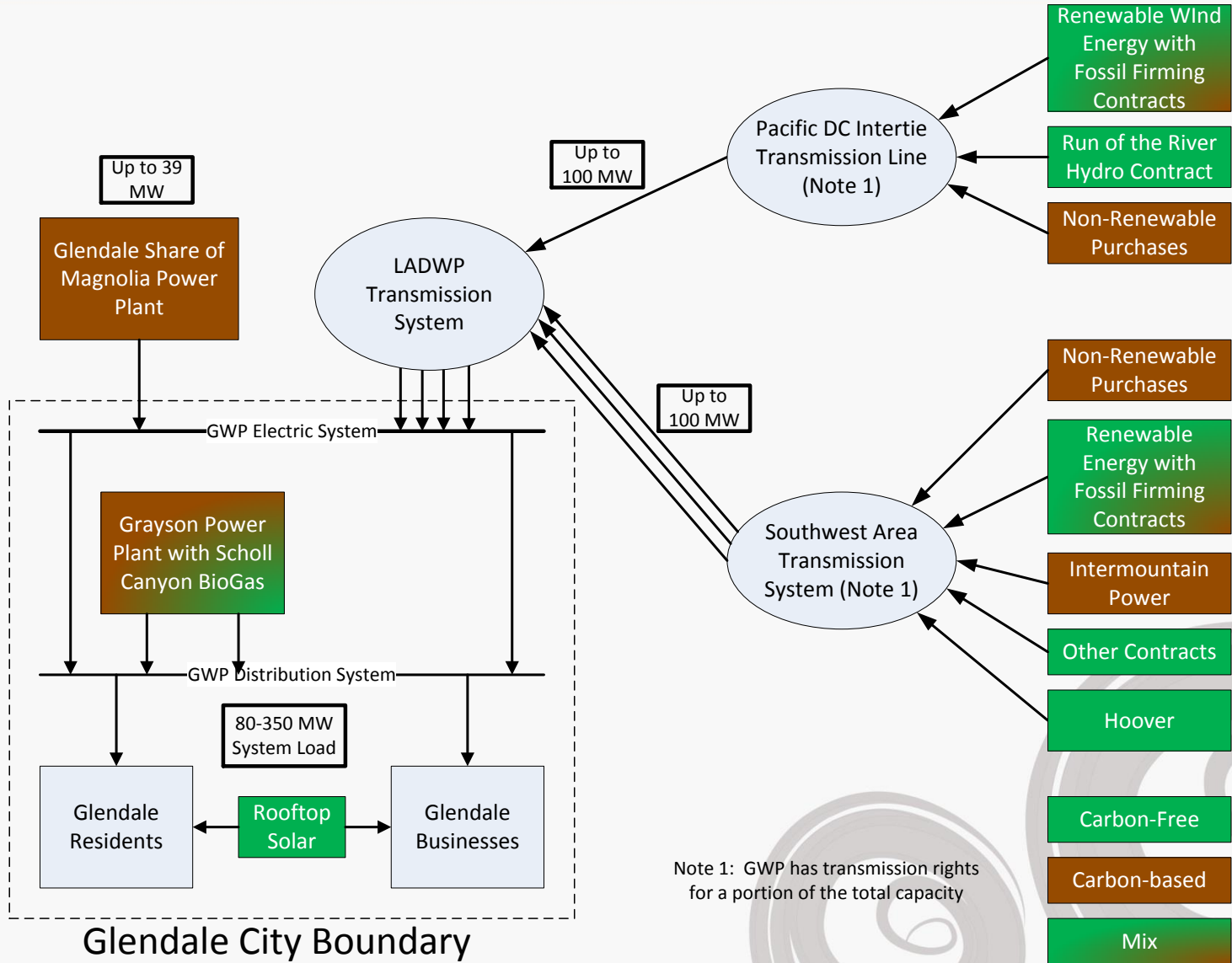
Background: About GWP



2017 Monthly Peak and Energy at the Meter

	January	February	March	April	May	June	July	August	September	October	November	December
Max Load (MW)	144	138	239	165	190	257	274	319	325	276	165	136
Monthly Total (MWh)	83,197	72,099	79,896	77,848	83,081	93,824	112,867	112,609	99,089	90,264	75,464	79,074

Glendale's Energy Sources



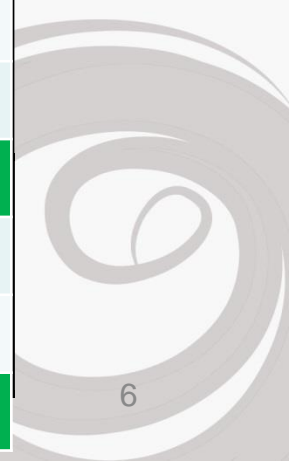
Note 1: GWP has transmission rights for a portion of the total capacity

GWP's need for capacity, energy, and RPS

- GWP's access to transmission limited to 200 MW.
 - GWP most severe single contingency (n-1) is an outage on the 100 MW Pacific DC intertie.
- GWP is a member of LADWP balancing authority.
- By April 2021, GWP needs 234 MW of additional capacity. Controllability and flexibility are key.
- Also need 200 – 600 GWh of economic and clean energy.
- Currently 47% renewable but interested in going higher.

How Much Capacity is Needed?

Peak Load Capacity Requirement	
Maximum System Load	350 MW
Grayson Unit 9	-48 MW
GWP's share of the Magnolia Power Plant	-39 MW
GWP's share of the Pacific DC Intertie	-100 MW
GWP's share of the Southwest Area Transmission	-100 MW
Capacity Needed to Meet Peak Load	63 MW
Reserves Capacity Requirement	
Loss of Largest Contingency	100 MW
Loss of Second Largest Contingency	71 MW
Capacity Needed to Provide Reserves	171 MW
Peak Load Shortfall	63 MW
Reserves Requirement	171 MW
Total Repower Generation Requirement	234 MW

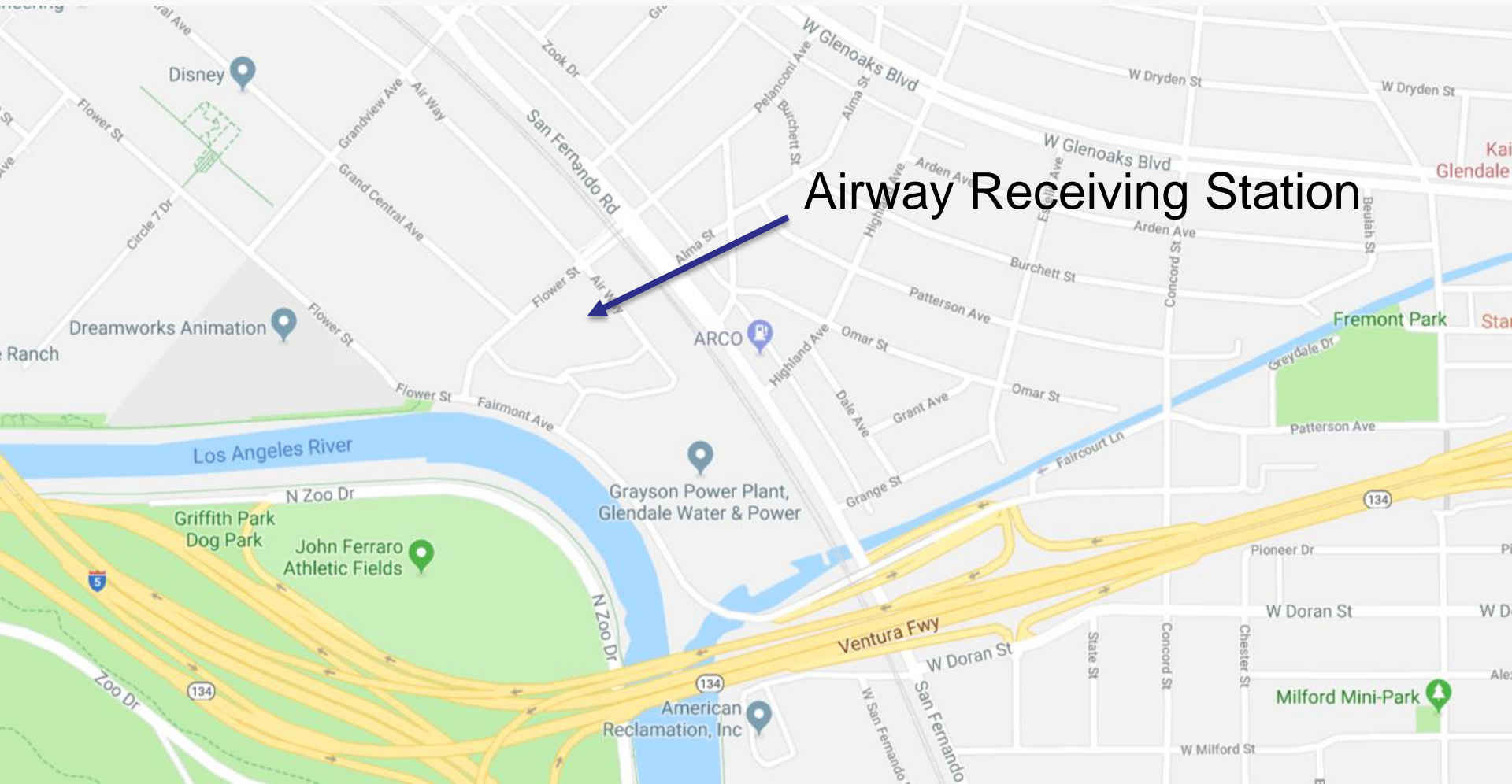


The Clean Energy RFP

- This is an *all-source RFP*. No restrictions on type of projects that can be offered.
- City property is available for projects.
 - Public works building/parking area 0.77 MW
 - Civic Auditorium parking structure 0.40 MW
 - Civic Auditorium Overflow Lot 0.175 MW
 - Diederich Reservoir 2.27 MW
 - Rossmoyne Reservoir 0.502 MW
- Demand response, efficiency, and behind-the-meter solar and storage aggregations may also be part of the solution.

Regional Projects

Resources outside of Glendale will be considered if transmission is included to the AirWay Station.



Response templates

- Submittal Templates
 - GWP will provide standardized RFP response templates by mid-June posted on the website. A notification email will be sent.
 - Includes standardized forms to characterize cost and physical characteristics of solar, batteries, demand response, and EE. Only use templates applicable to your solution.
 - If templates are not adequate to characterize your solution or you have questions on templates, email cleanenergyrfp@glendaleca.gov

Evaluation criteria

Criteria	Points
Proposer's experience and expertise to complete the project	15
Environmental performance w.r.t. impact on RPS, air quality, and other environmental attributes	15
Project feasibility	10
Project ability to supply reliable energy and capacity	30
Cost-effectiveness, which will include value attributed to system reliability and deferred or avoided system infrastructure costs.	30

Q&A

Thank you.

[https://www.glendaleca.gov/government/departments/
glendale-water-and-power/clean-energy-rfp](https://www.glendaleca.gov/government/departments/glendale-water-and-power/clean-energy-rfp)

Email questions:

cleanenergyrfp@glendaleca.gov