

Q1. How green is GWP's power supply?

- GWP's energy portfolio to serve retail load is greener than State average and regional peers .

| Renewable Portfolio Standard (%) | | | | | | |
|----------------------------------|---------|----------|----------|----|-------|----------|
| Year | City | | | | State | GWP Rank |
| | Burbank | Pasadena | Glendale | LA | CA | |
| 2015 | 33 | 29 | 34 | 21 | 22 | 1 |
| 2016 | 32 | 32 | 47 | 29 | 25 | 1 |
| 2017 | 32 | 38 | 37 | 30 | 29 | 2 |

- GWP's energy portfolio to serve retail load is mostly carbon free and is consistently ranked #1 carbon free among regional peers.

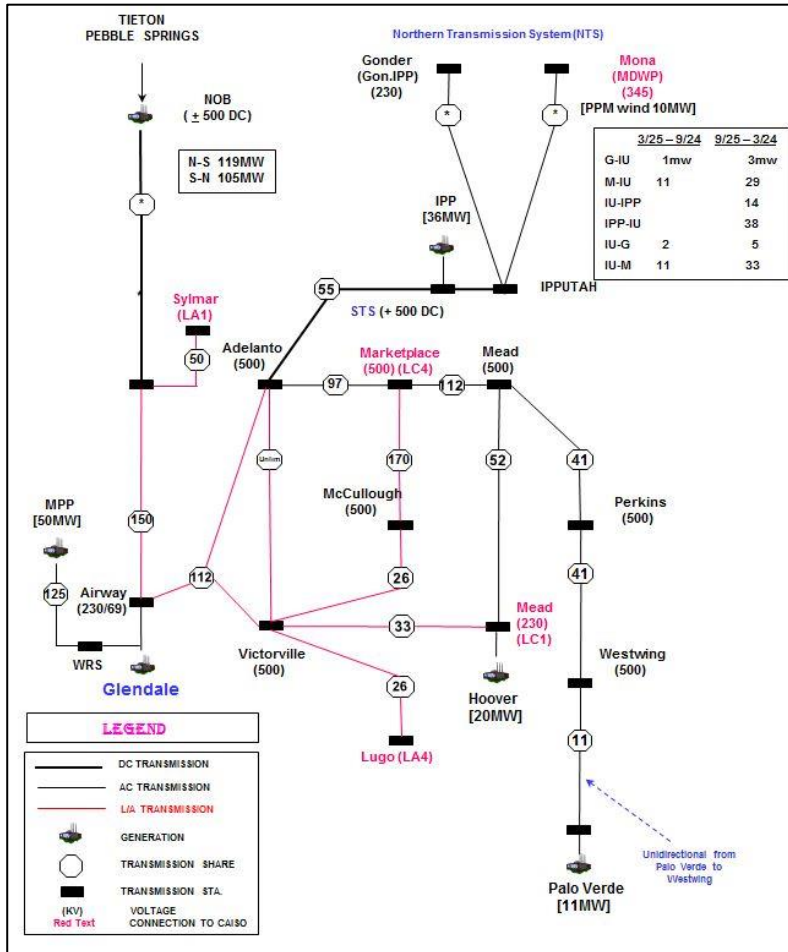
| Carbon Free (%) | | | | | | |
|-----------------|---------|----------|----------|----|-------|----------|
| Year | City | | | | State | GWP Rank |
| | Burbank | Pasadena | Glendale | LA | CA | |
| 2015 | 40 | 40 | 46 | 34 | 36 | 1 |
| 2016 | 40 | 43 | 64 | 48 | 44 | 1 |
| 2017 | 39 | 47 | 57 | 44 | 53 | 1 |

* All data is from California Energy Commission certified historical PCLs.



Q2. What effort has GWP initiated to solve transmission constraints?

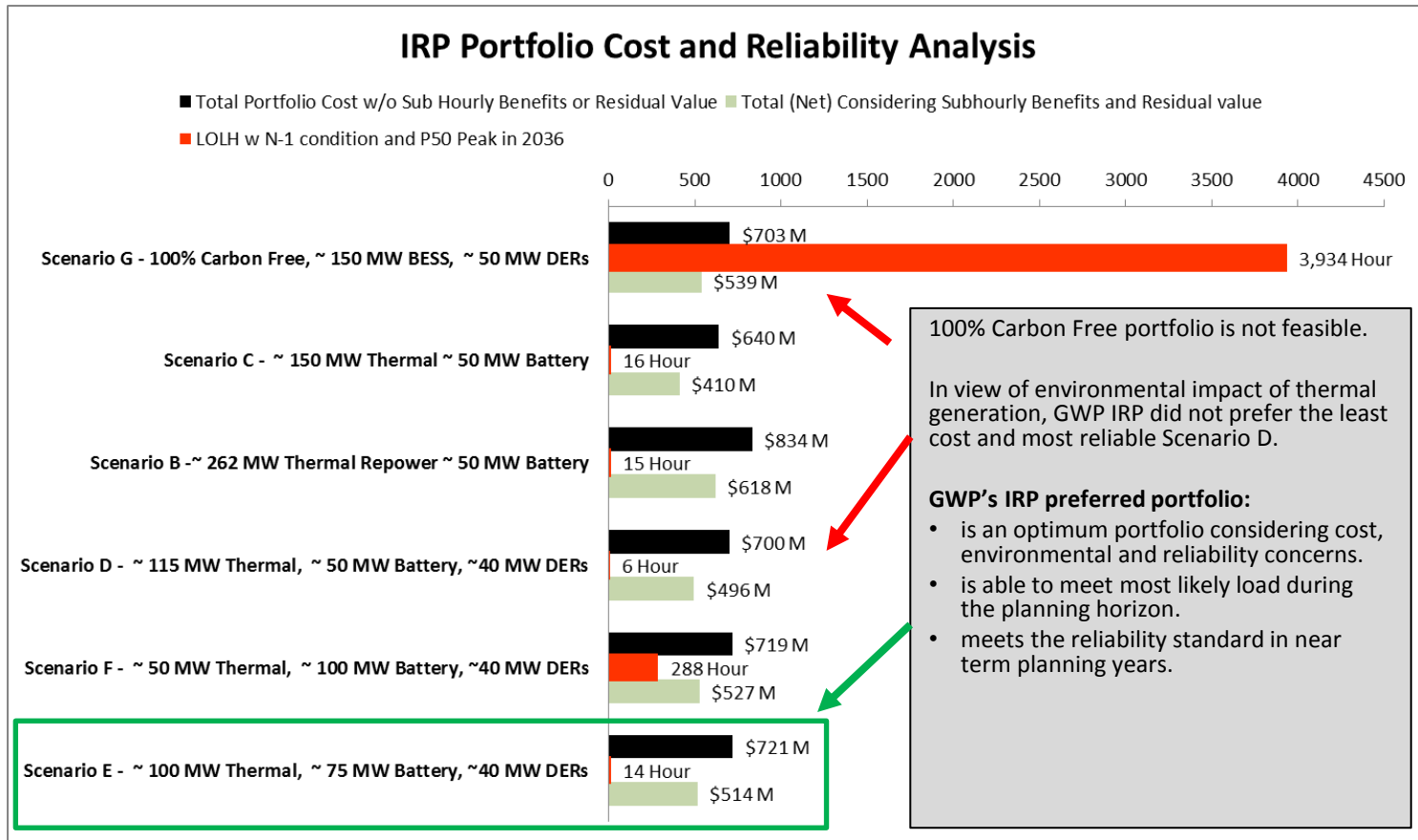
Glendale Transmission Schematic



- Numerous onsite or offsite meetings with LADWP to obtain more transmission from LADWP
- Work collaboratively with other Municipals
- GWP Will likely to get approx. 50 MW more transmission from IPP thanks to projected increase of ownership percentage to IPP repower in 2027.



Q3. What is the cost of the IRP Preferred Portfolio?



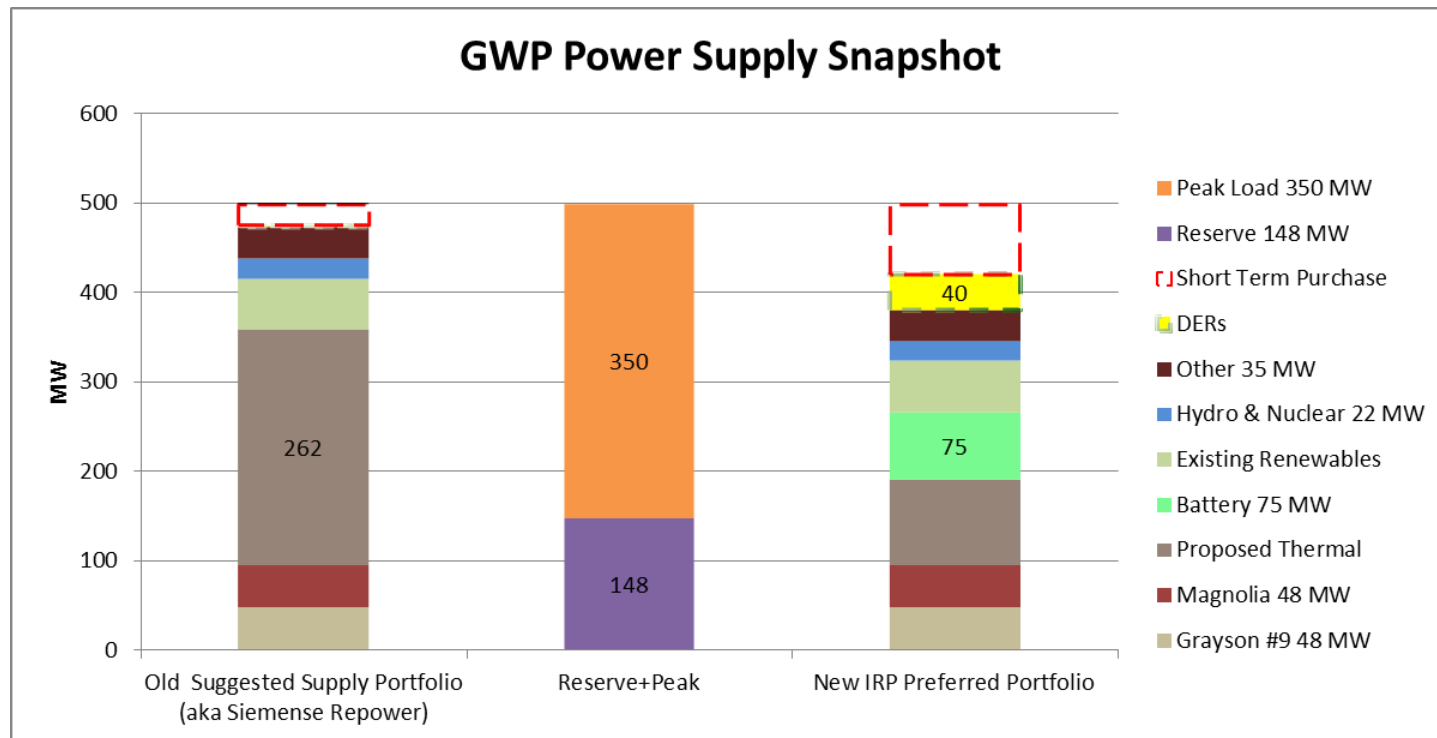
* All costs and reliability study is preliminary pending final contract negotiation.

* 50 MW Battery in Scenario B was evaluated to reduce the original 262 MW thermal generation to 191 MW. For illustration purpose, Scenario B still shows the original proposed thermal MW.



Q4. How does the GWP IRP preferred portfolio compare to old repower option?

- GWP’s IRP preferred portfolio has dramatically changed compared to previously proposed repower option.



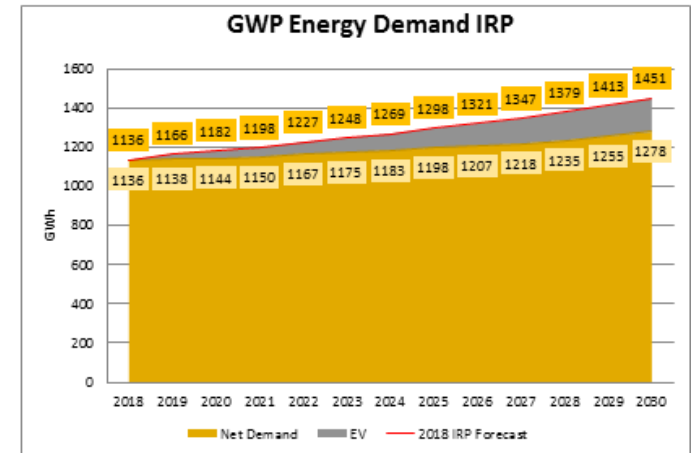
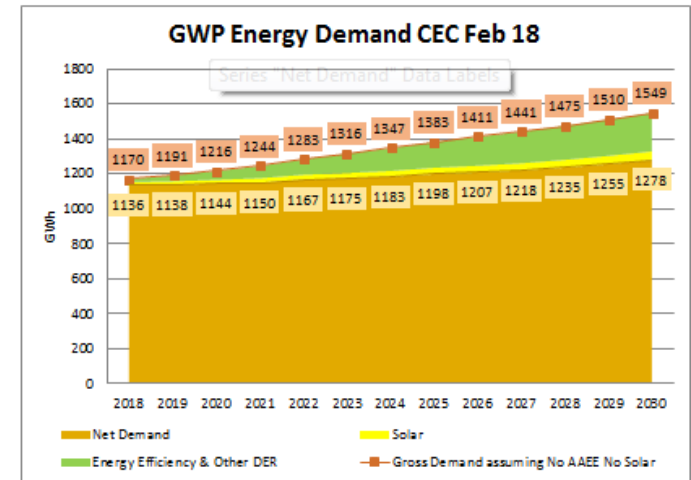
Q5. What assumptions does GWP's IRP carry?

| Table 1-1 | Input Assumptions of GWP's 2019 IRP |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Input | Planning Assumptions |
| Planning Horizon | 2019-2038 |
| Demand Forecast | CEC 2017 IEPR 2018 Feb MID Demand Forecast with AAEE and AAPV |
| | CEC 2018 Light duty PEV Energy and Emission Calculator V3.5-2, assuming a 5 Million car state-wide goal by 2030 |
| | GWP's DER programs hourly forecast |
| Power Prices | ICE forward price curves |
| GHG Prices | CEC's 2017 IEPR Carbon Price Projections |
| CO2 Emission Rates | Gas-fired and import resources based on California Air Resources Board (CARB) 2017 published emission rates |
| Weather Conditions | Last 30 year of historical weather pattern |
| Outages | Historical outage Levels with Stress Case Scenario |
| RPS Portfolio | GWP's existing portfolio, plus future sources are expected to achieve 60% RPS by 2030 |
| Reserve Margin | Retain reserve margin for N-1 and N-1-1 contingency per NERC reliability standard and GWP agreement with its Balancing Authority |
| Distributed Energy Resources | GWP's existing portfolio, plus future sources to be procured from Clean Energy RPF, including EE, DR, Solar PV and small scale storage projects |



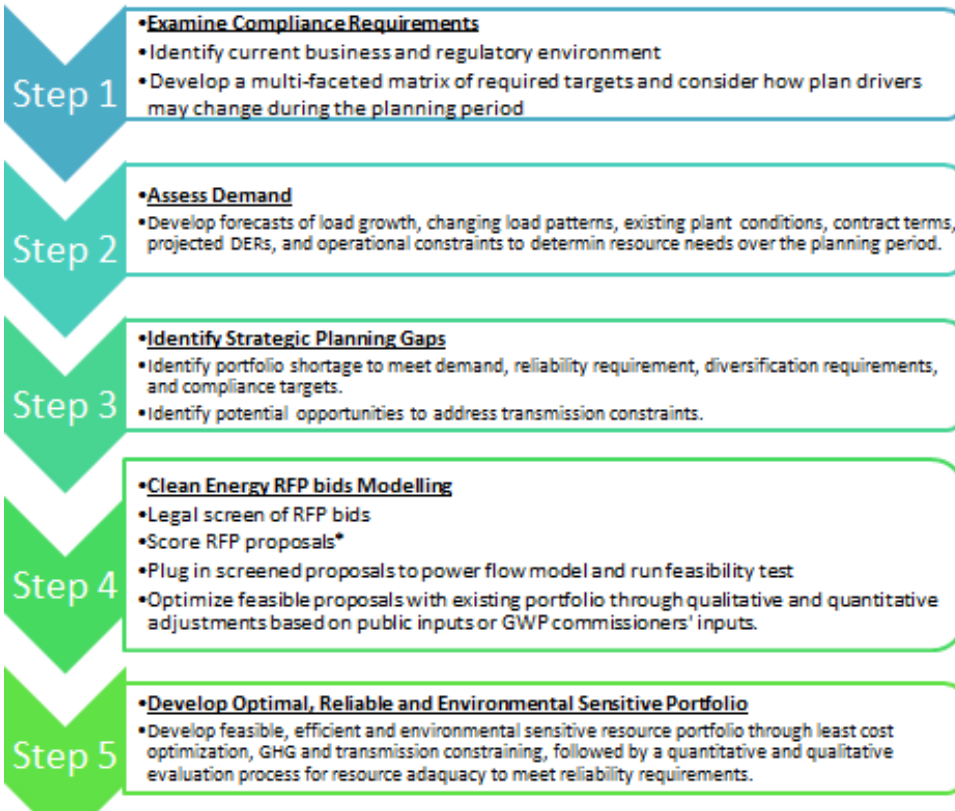
Q6. Why does GWP have growing load?

- GWP used the California Energy Commission's Mid-Demand Mid-Additional Achievable Energy Efficiency (AAEE) Mid-Additional Achievable Photovoltaic (AAPV) forecast. This forecast has assumed aggressive future demand savings.
- Glendale demand growth is near 0% if we exclude transportation electrification penetration. Almost all load growth is driven by load growth from electricity vehicles charging. And electricity vehicles projections are according to CEC's projection incorporated the state wide 2030 goal set by Governor Brown in 2nd half of 2018.

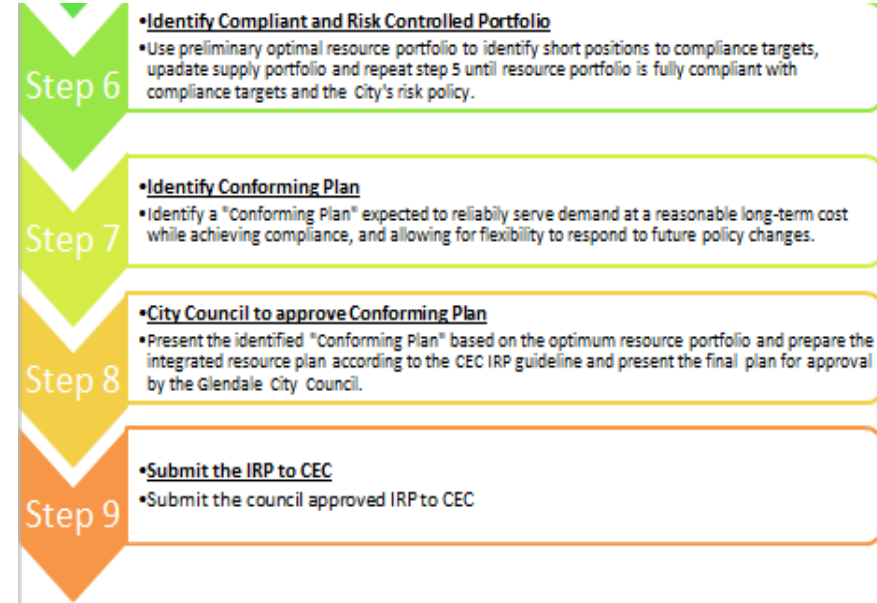


Q7. What does GWP IRP process look like?

❑ Evaluation and Modelling Stage



❑ Submission Stage



Q8. How does GWP score Clean Energy RFP bids?

- Evaluation Matrix
 - Legal screening
 - Feasibility screening
 - Proposal scoring weight
 - Experience and expertise 15%
 - Environmental performance 20%
 - Admin burden 10%
 - Ability to supply reliable energy and capacity 30%
 - Cost effectiveness 25%
- Evaluation team
 - Two members from GWP
 - Mark Young, IRP Administrator, 30+ years of power operation and power supply management experience
 - Tracy Fu, Power Planning Manager, 13+ years resource planning experience
 - Two members from SCPA
 - Ted Beatty, then Party Resource Origination Director at SCPA. (Mr. Beatty left SCPA in 2019 Jan and is currently Executive Director Renewable Origination at a major renewable energy firm), 20+ years of renewable origination experience
 - Michael Webster, Executive Director at SCPA, 30+ years of energy management and audit experience
 - Ascend
 - Gary Doris, President at Ascend Analytics and Owner, 20+ years of modelling and power supply management experience
 - David Millar, Director at Ascend Analytics, 15+ years of energy modelling and consulting experience
- Evaluation Outcome
 - Evaluated 38 bids from 34 vendors and got down to 8-9 bids.
 - Preliminary optimum portfolio is consistent to peer utilities or industry findings.
 - Thermal resources are greatly reduced and replaced by Storage and DER resources.

