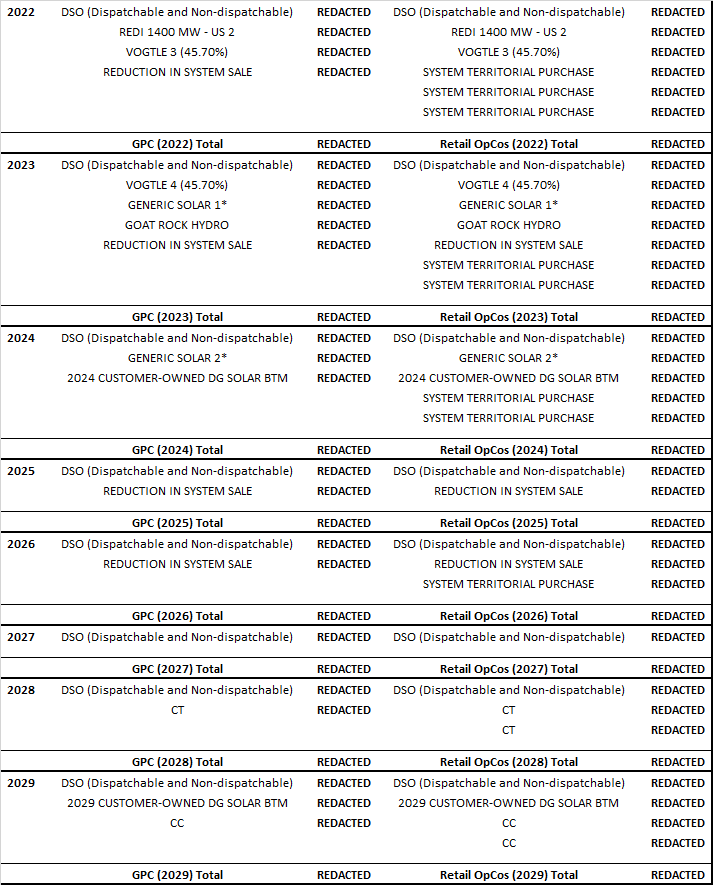
Technical Appendix Volume 2

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1. 2019 IRP Plan and Reference Tables
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Long-term resource additions are shown to maintain an acceptable planning reserve margin. Demand-Side Options (DSO) additions include both dispatchable and non-dispatchable options as shown below. Dispatchable DSO additions are shown as combustion turbine equivalent megawatts as are solar and wind resources. Existing non-dispatchable DSO additions are reflected in the load forecast. Committed and proposed resource additions are shown by plant name or by technology type. Uncommitted resource additions (projected generics) are shown as one of two types (CT or CC). The table below reflects the long-term resource additions and associated incremental summer planning capacities for Georgia Power Company (GPC) and the Retail Operating Companies (Retail OpCos) on the Southern Company system.













\* CTO denotes that for thermal units remaining available, the units would continue to operate throughout the planning period.

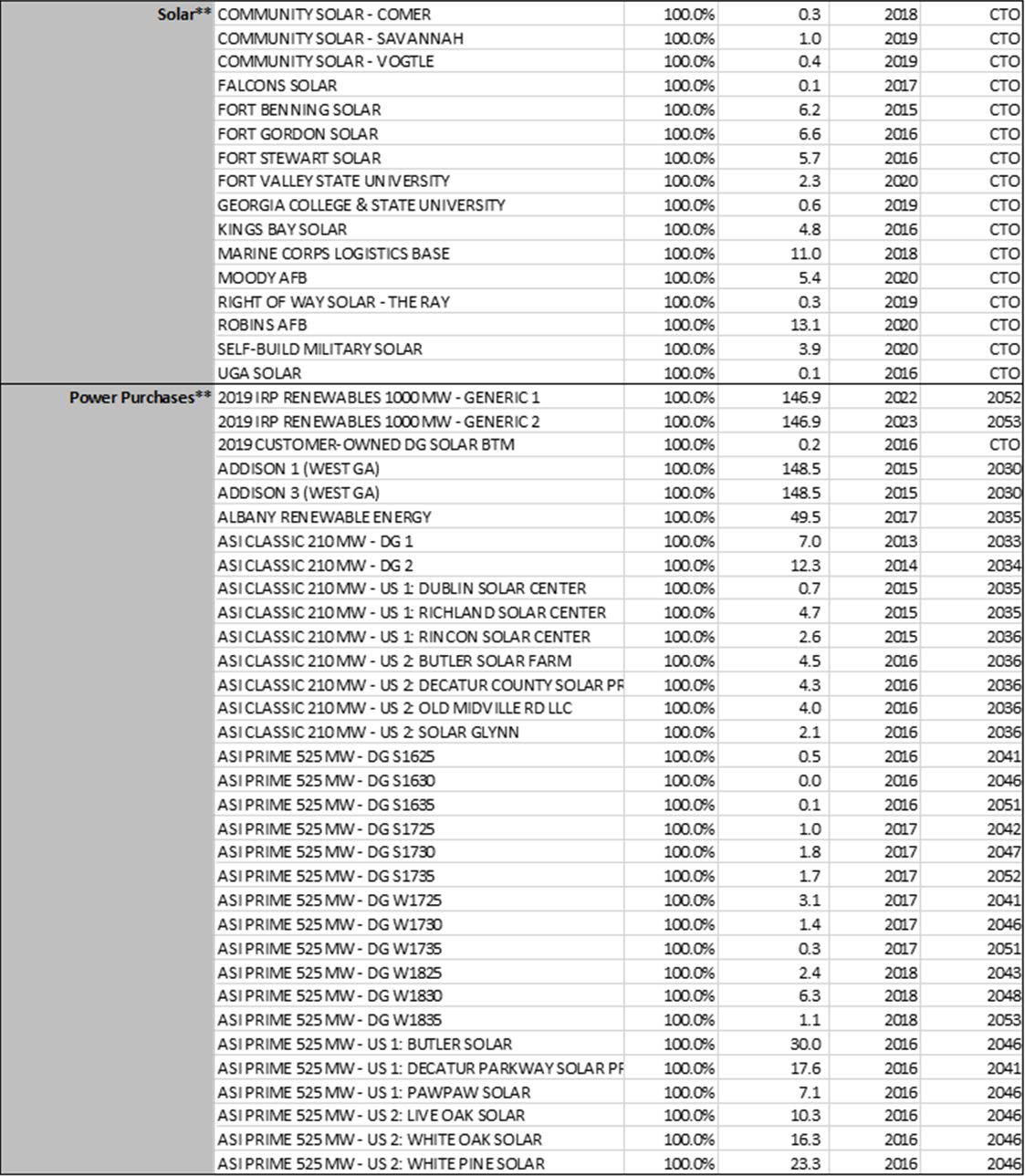
\*\*Solar reflects Support Capacity Adjustment per the RCB Framework and summer combustion turbine equivalence.

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\* CTO denotes that for thermal units remaining available, the units would continue to operate throughout the planning period.

\*\*Solar reflects Support Capacity Adjustment per the RCB Framework and summer combustion turbine equivalence.



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\*\*Solar reflects Support Capacity Adjustment per the RCB Framework and summer combustion turbine equivalence.





**2019 IRP Main Document Reference Tables and Figures**

Table 4.3.1 Data Assumptions for New Generating Technologies

Figure 4.3.2 Base Case Busbar Screening Plot

Table 4.6.1a Georgia Territory Base Case Summer Loads vs. Existing Summer Capability (16.25%)

Table 4.6.1b Georgia Territory Base Case Winter Loads vs. Existing Winter Capability (26%)

Table 4.6.2a Resource Additions Required Under the Plan with Gulf Power (Summer 16.25%)

Table 4.6.2b Resource Additions Required Under the Plan with Gulf Power (Winter 26%)

Table 4.6.3a Resource Additions Required Under the Plan (Summer 16.25%) without Gulf Power

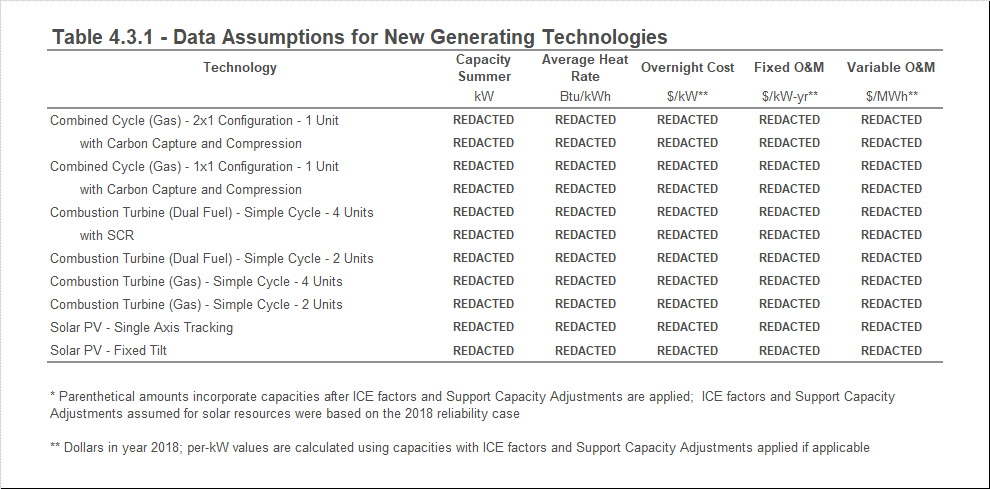
Table 4.6.3b Resource Additions Required Under the Plan (Winter 26%) without Gulf Power

Figure 4.6.4a Base Case Reserve Margin - No New Resources (Summer 16.25%)

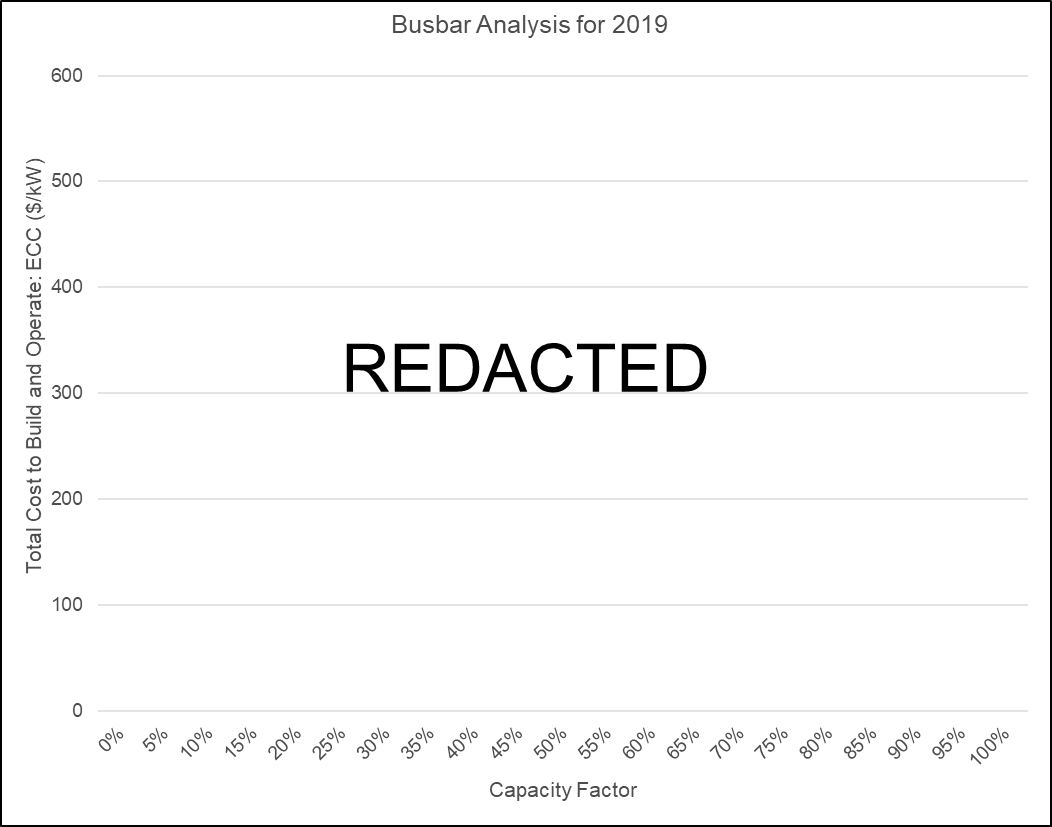
Figure 4.6.4b Base Case Reserve Margin - No New Resources (Winter 26%)

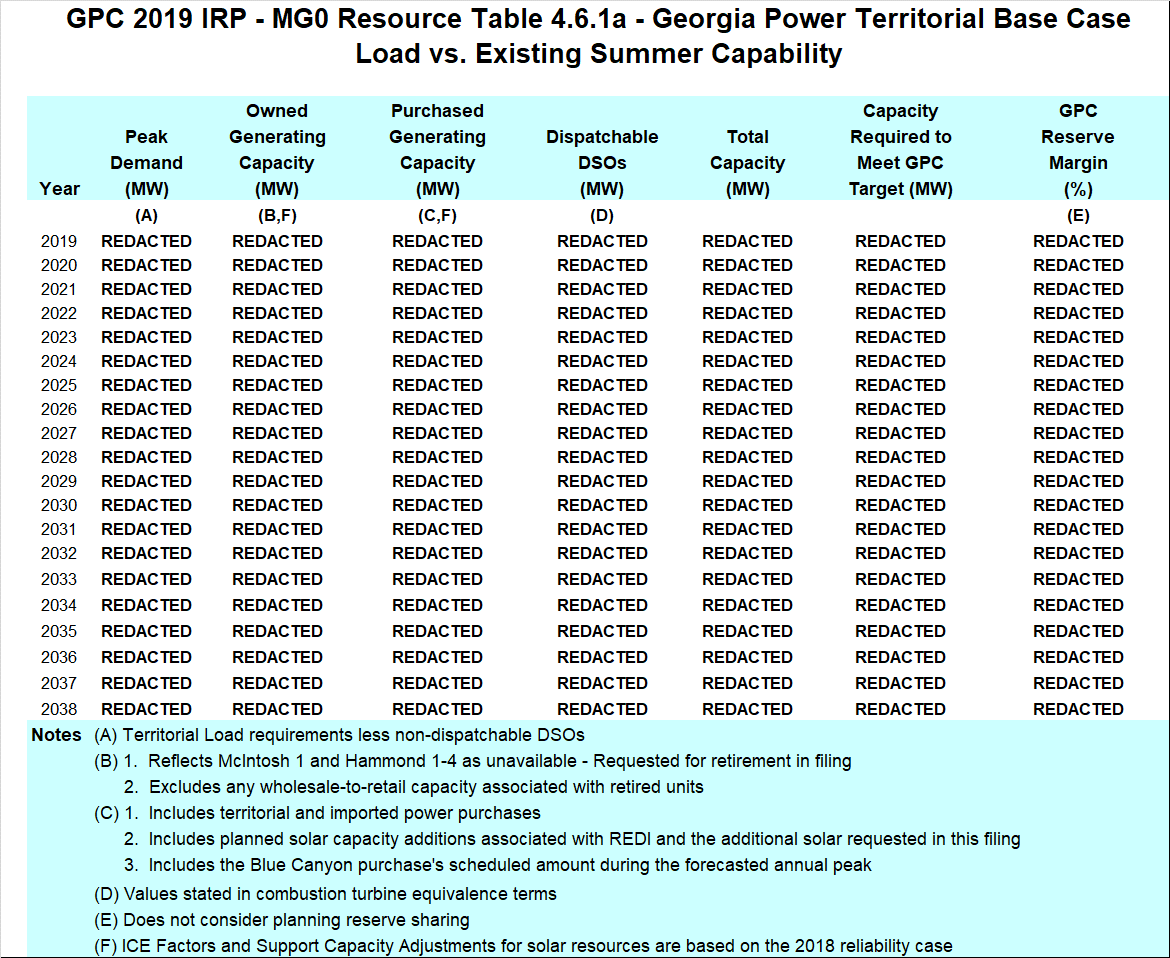
Figure 4.6.5 Base Case Retail Operating Companies’ Energy Mix by Fuel Type

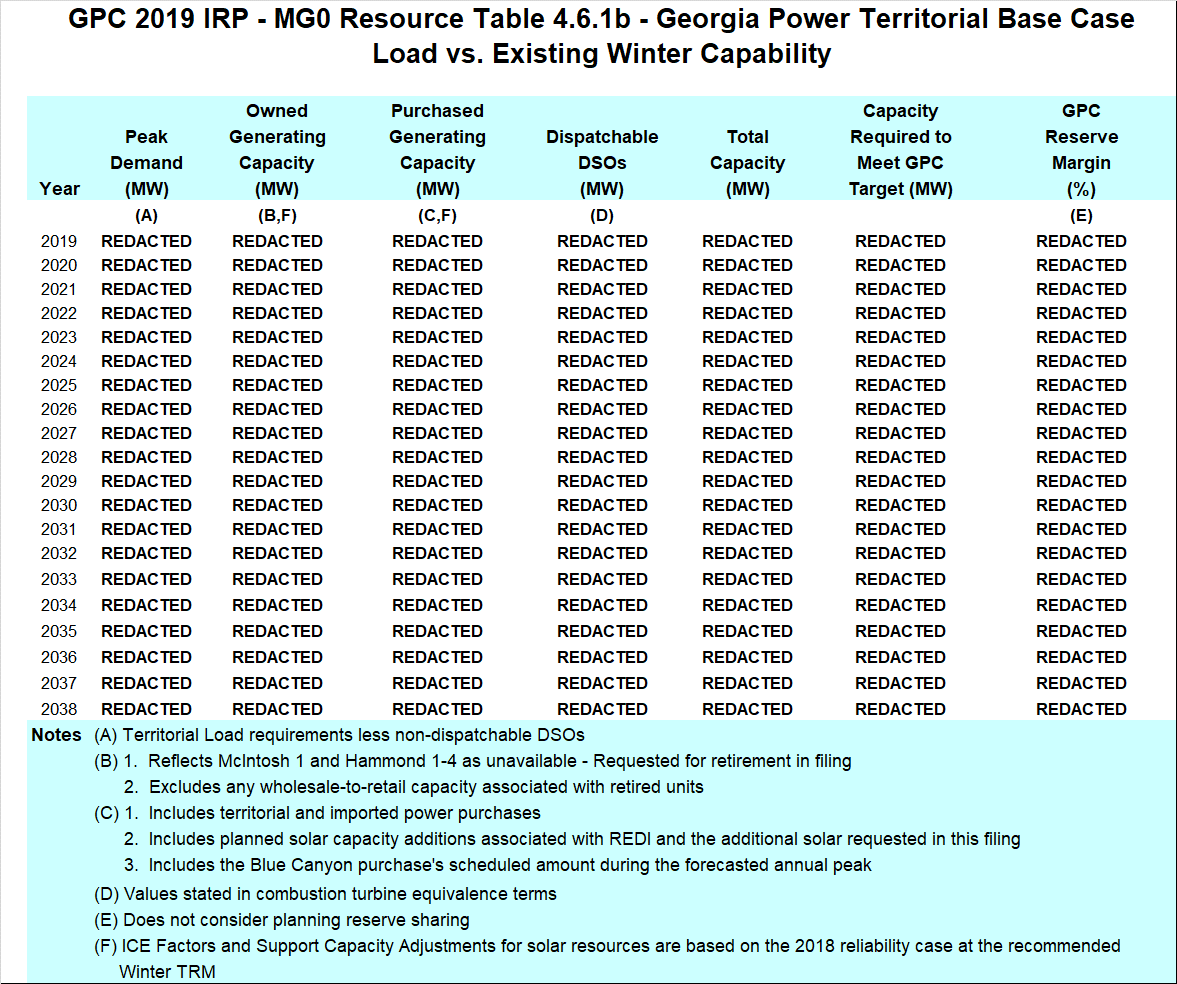
Table 4.6.6 Base Case IRP Cumulative Additions for GPC

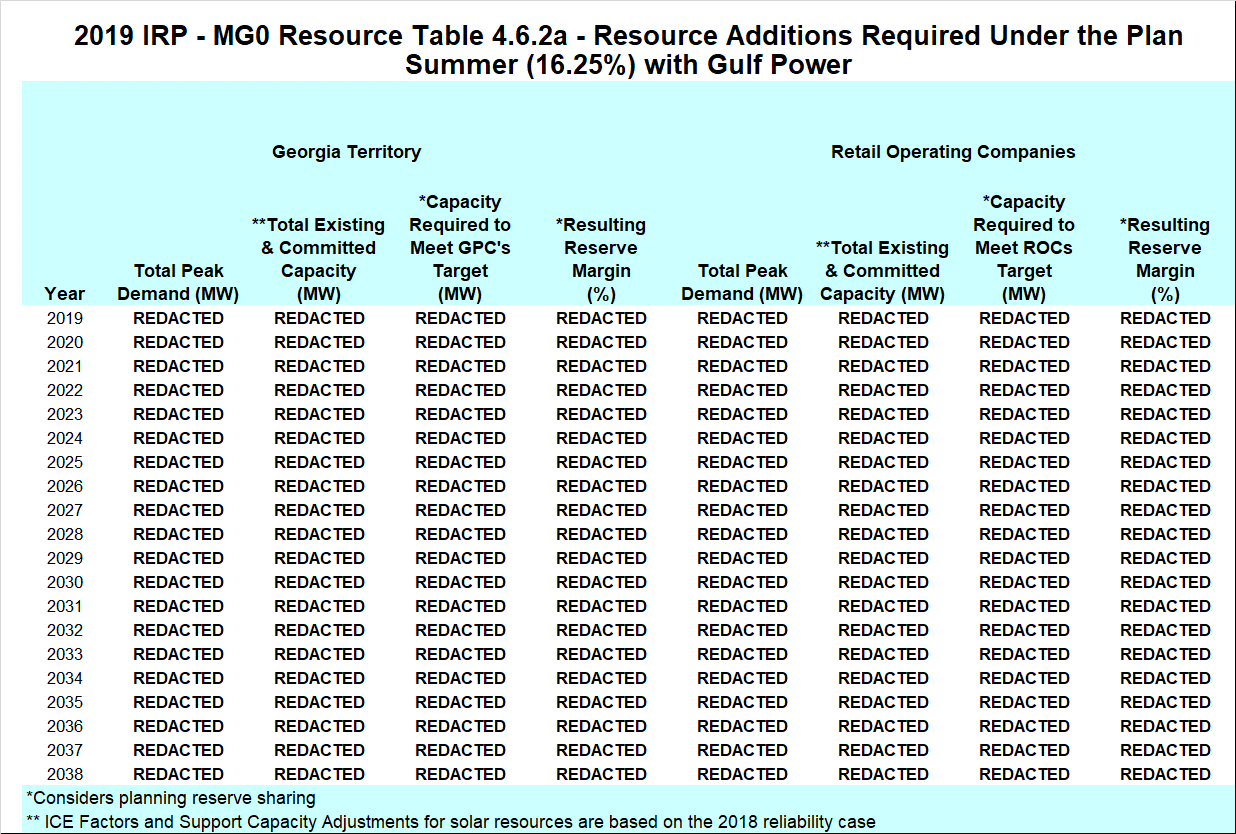


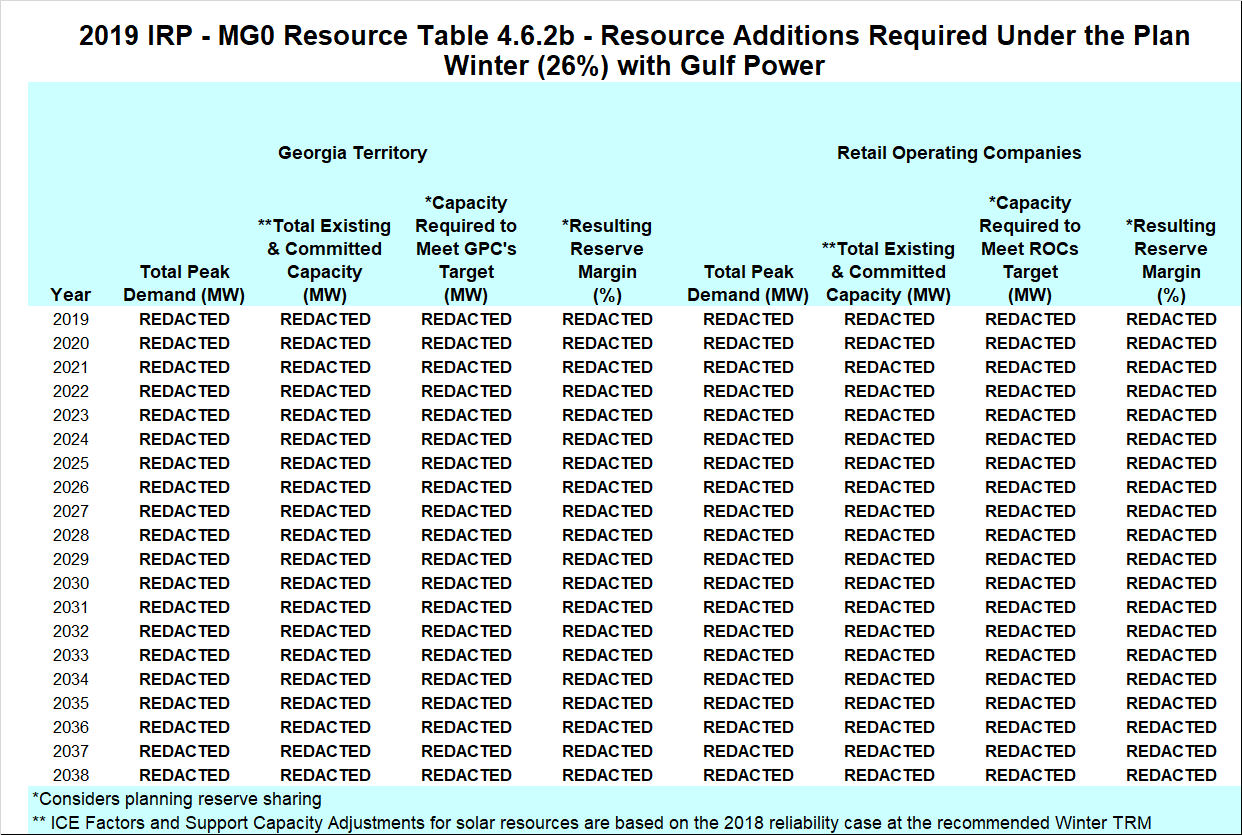
**Figure 4.3.2 – Base Case Busbar Screening Plot**

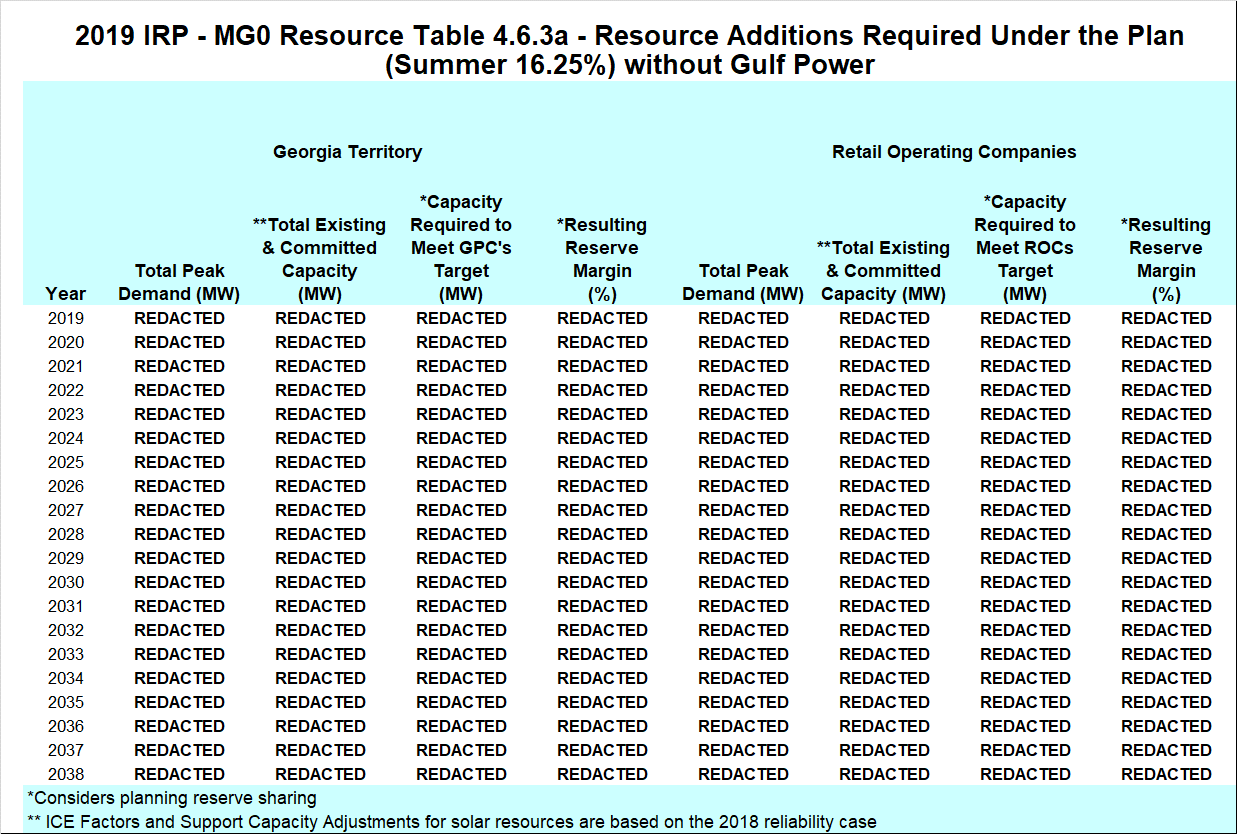


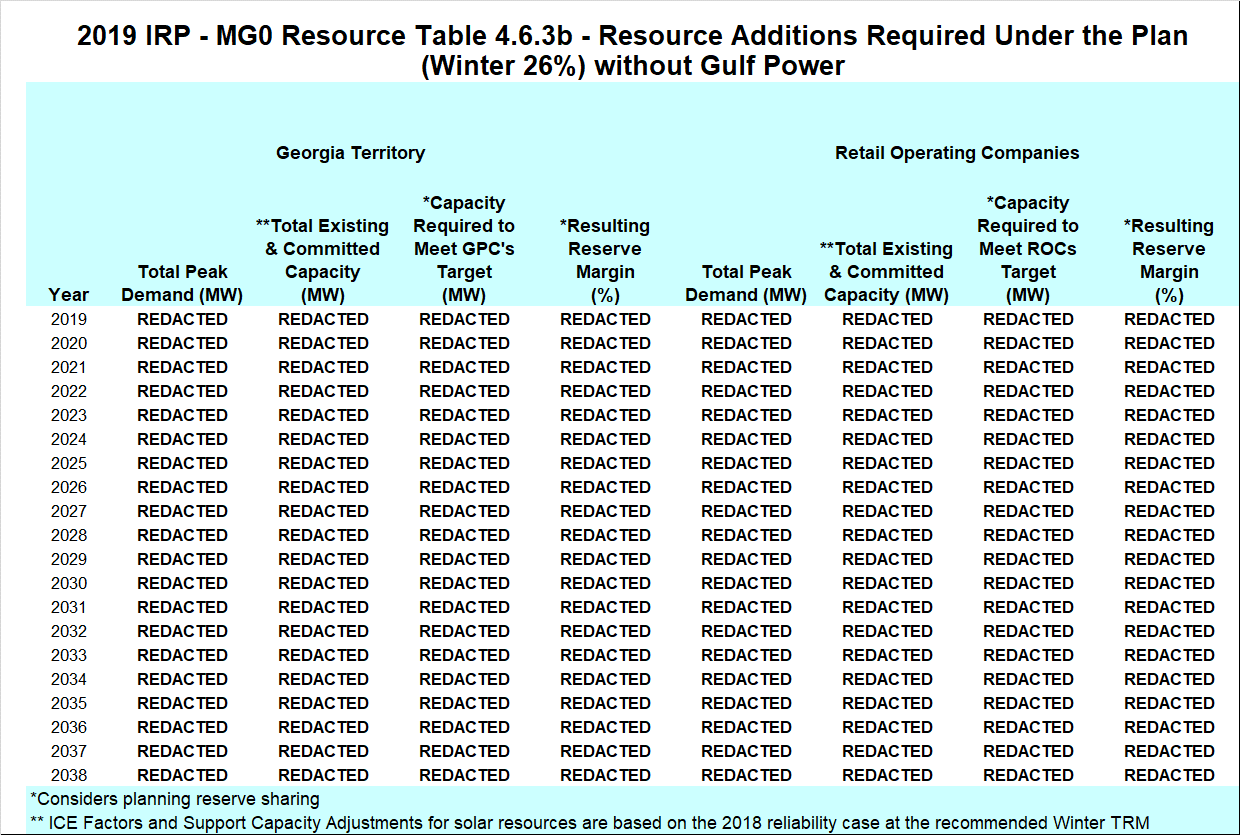


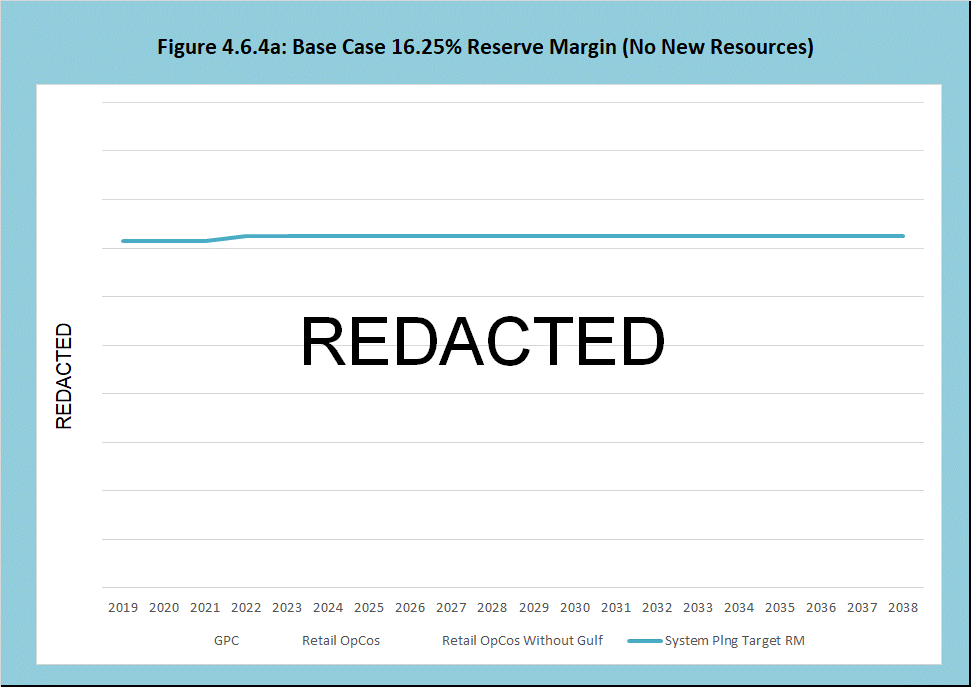


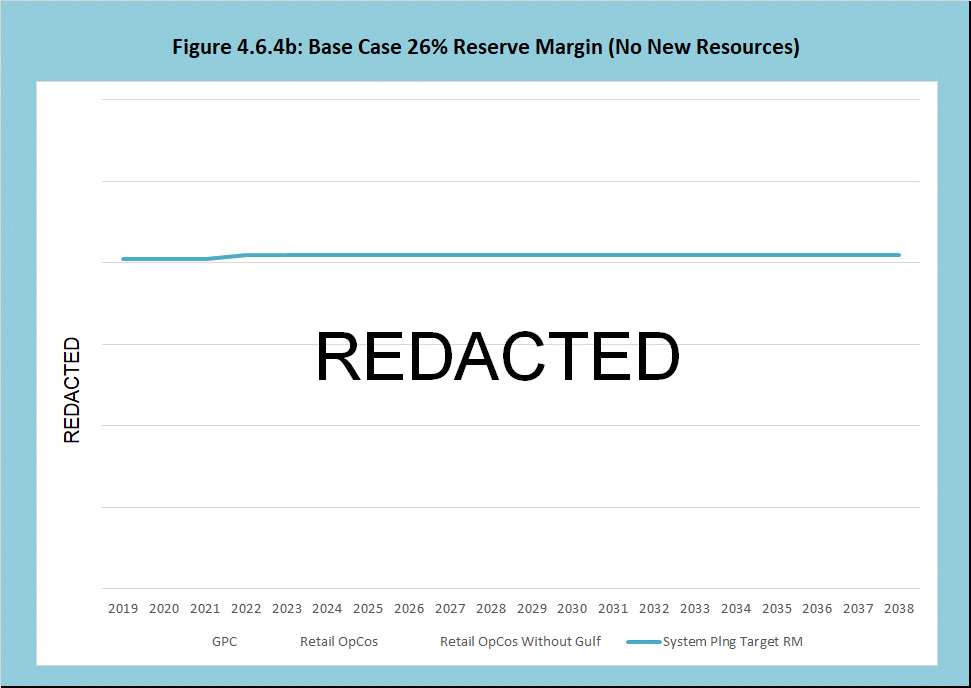




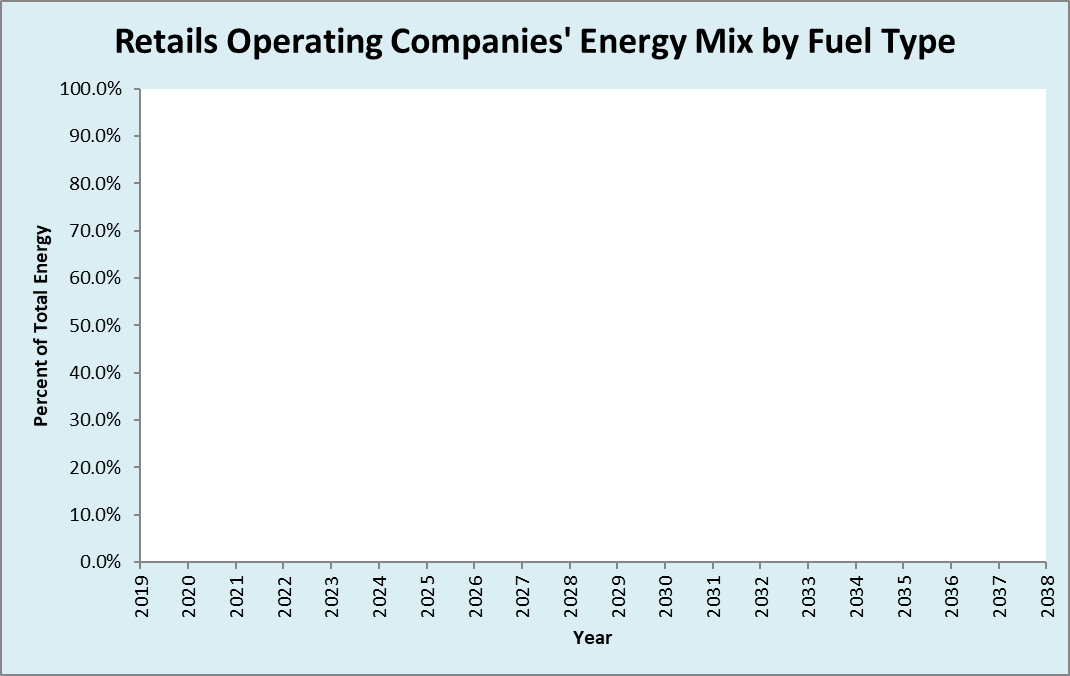








**Figure 4.6.5 Base Case Retail Operating Companies’ Energy Mix by Fuel Type**

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