

Appendix A – Self-Build Option Information

JEA intends to evaluate Responses to this Solicitation against a JEA Self-Build Option, which is summarized as follows and is current as of the time of the issuance of this RFP:

Self-Build Option will consist of a 1x1 natural gas-fired advanced class combined cycle combustion turbine (CCGT) facility located at JEA's former St. Johns River Power Park site, a JEA owned property in Duval County. The winter capacity of the Self-Build resource is anticipated to be approximately 670MW with an anticipated in-service date within the fourth quarter of calendar year 2030. The guaranteed COD for the proposed project is December 31, 2030.

Key attributes of the proposed CCGT include the following:

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- High availability.
- 40-60+ MW / min ramp rate
- Capable of turndown to approximately 25 percent of full load (ambient temperature dependent).
- Dual fuel capable, with 5 days (full load) of on-site liquid fuel storage and 5 days demineralized water storage and/or production capability.
- DLN combustion with CTG NOx emissions of 25 ppm on natural gas.
- Planned Outage Factor (POF) – 6%
- Forced Outage Factor (FOF) – 3%
- Equivalent Availability Factor (EAF) - 91%
- Average Net Operating Heat Rate (ANOHR) – 6,380 - 6,750 Btu/kWh
- Book life – 25 years
- Total Installed Cost (\$/kW (winter rating)) – \$1,050 - \$1,220
- Fixed O&M (2023 \$/kW-yr (winter rating)) - \$6.23 - \$7.33
- Variable O&M (2023 \$/MWh) - \$2.28 - \$2.68

The Self-Build Option will utilize existing infrastructure and resources, including existing fuel infrastructure and interconnection facilities.