



LAKE WORTH BEACH INTEGRATED RESOURCE PLAN

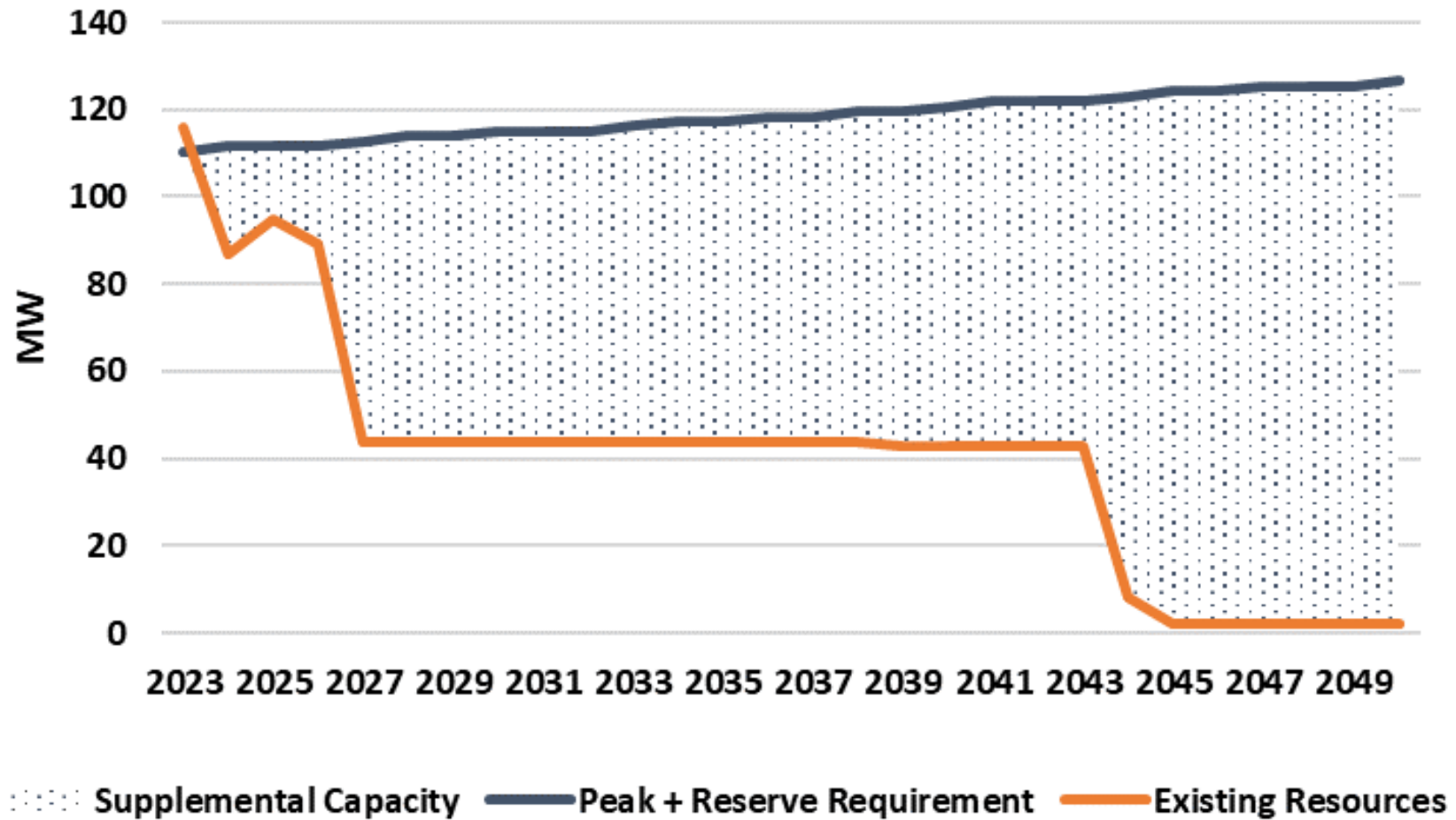
October 25th, 2022

IRP PROJECT

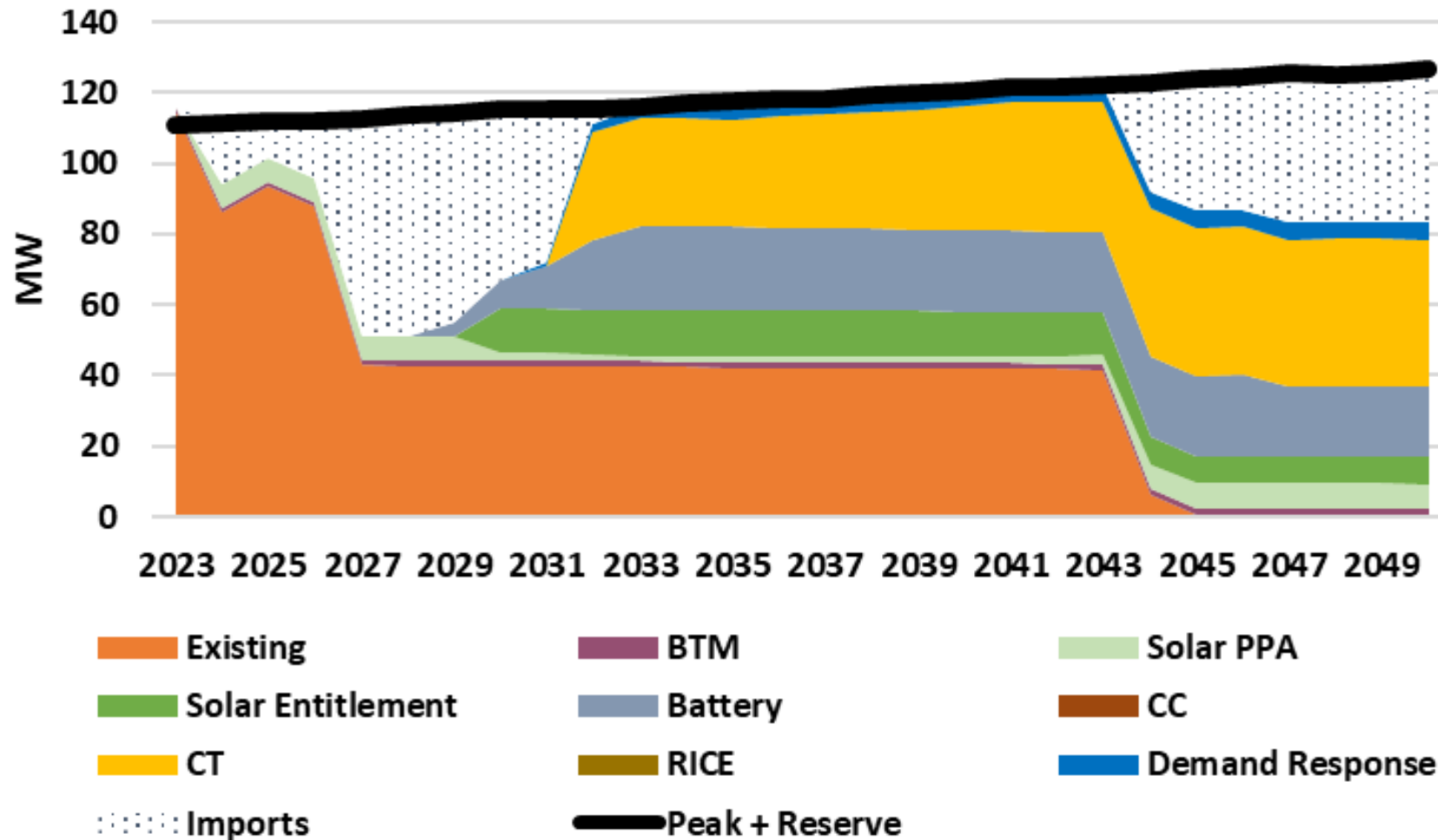
- Initiated project: June
- Data development and validation: July/August
- Preliminary results: September
- Refined results: October



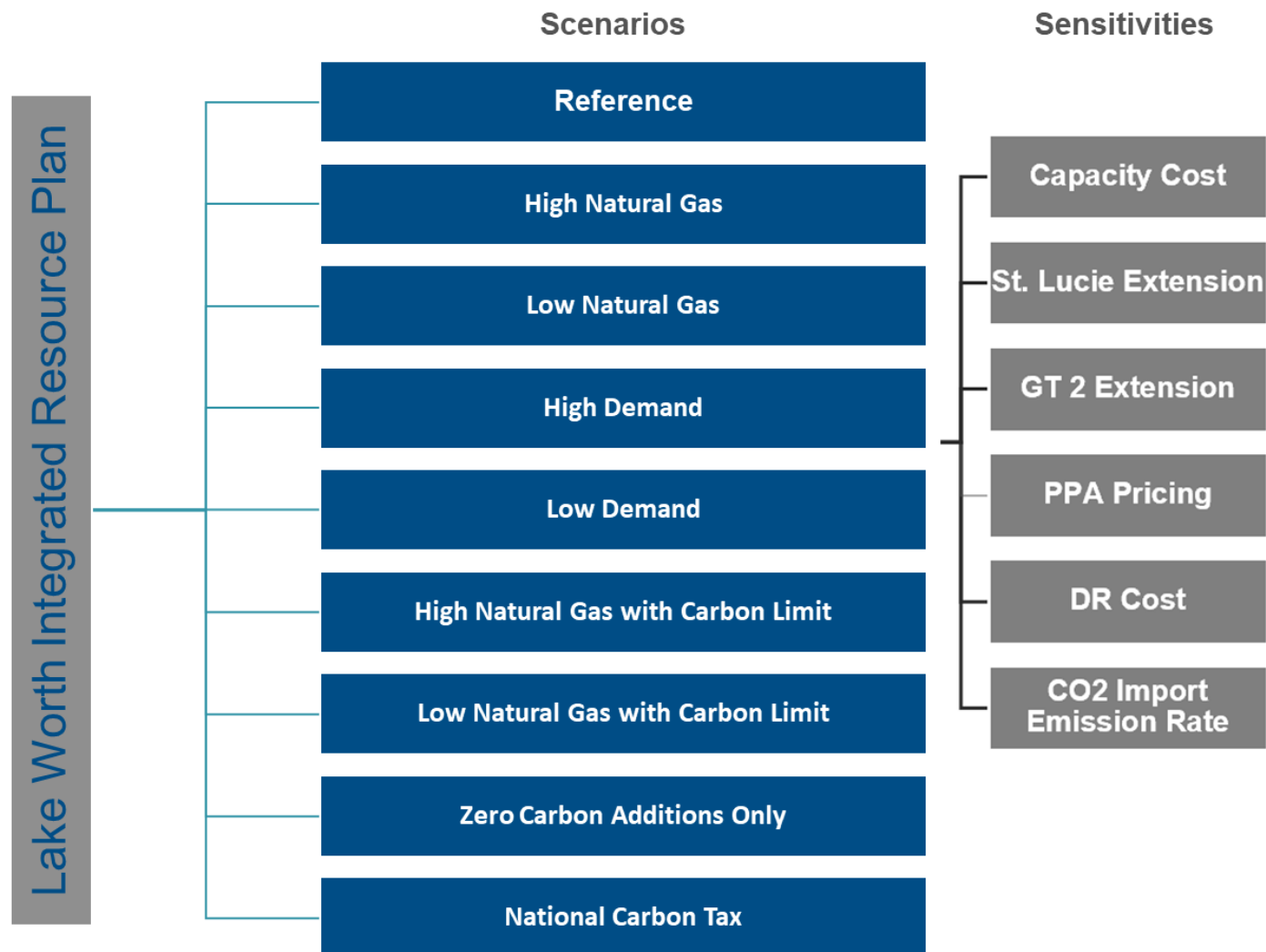
RESOURCE NEEDS



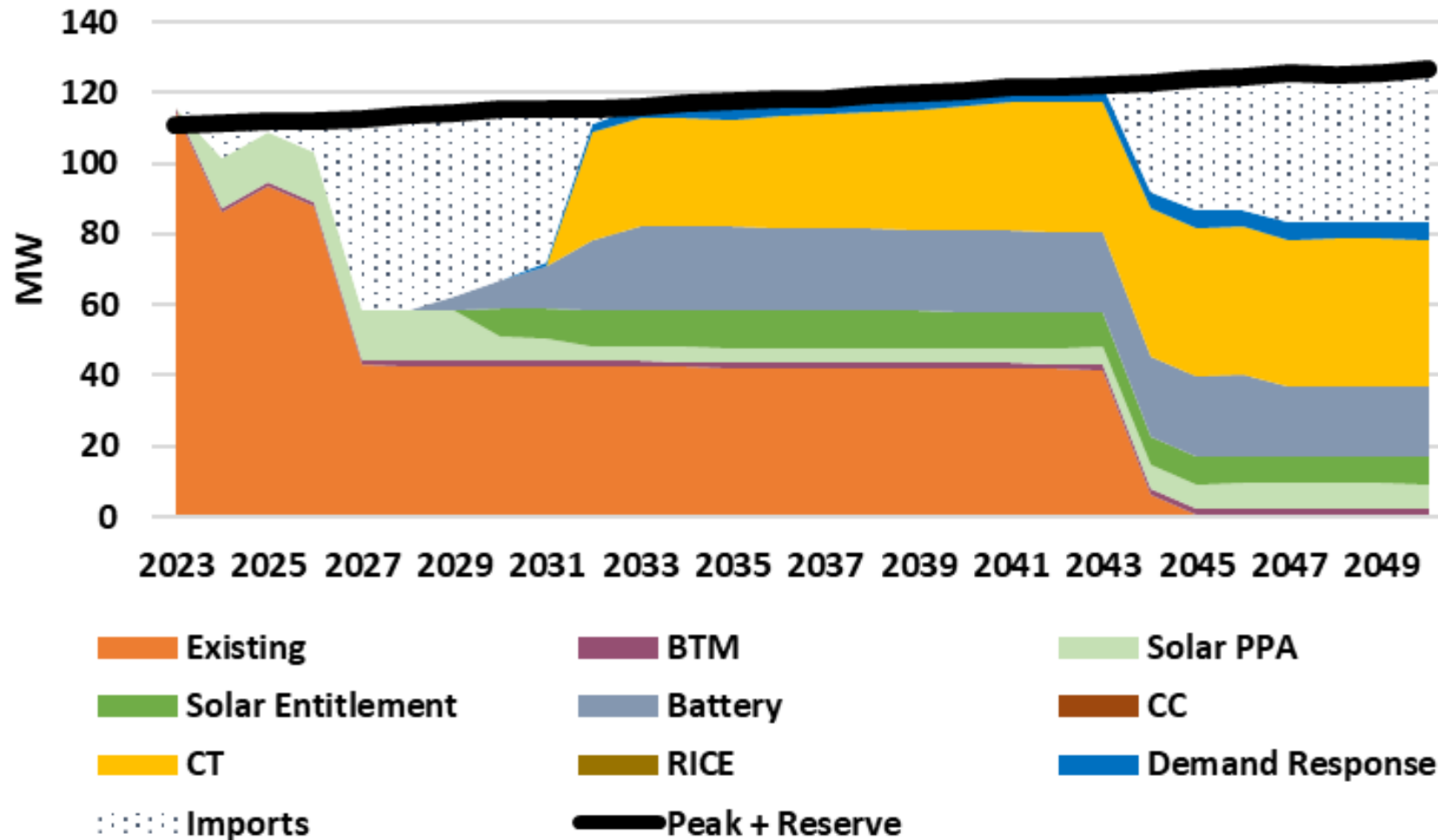
BASE CASE RESOURCE PLAN



LAKE WORTH BEACH IRP: SCENARIOS/SENSITIVITIES



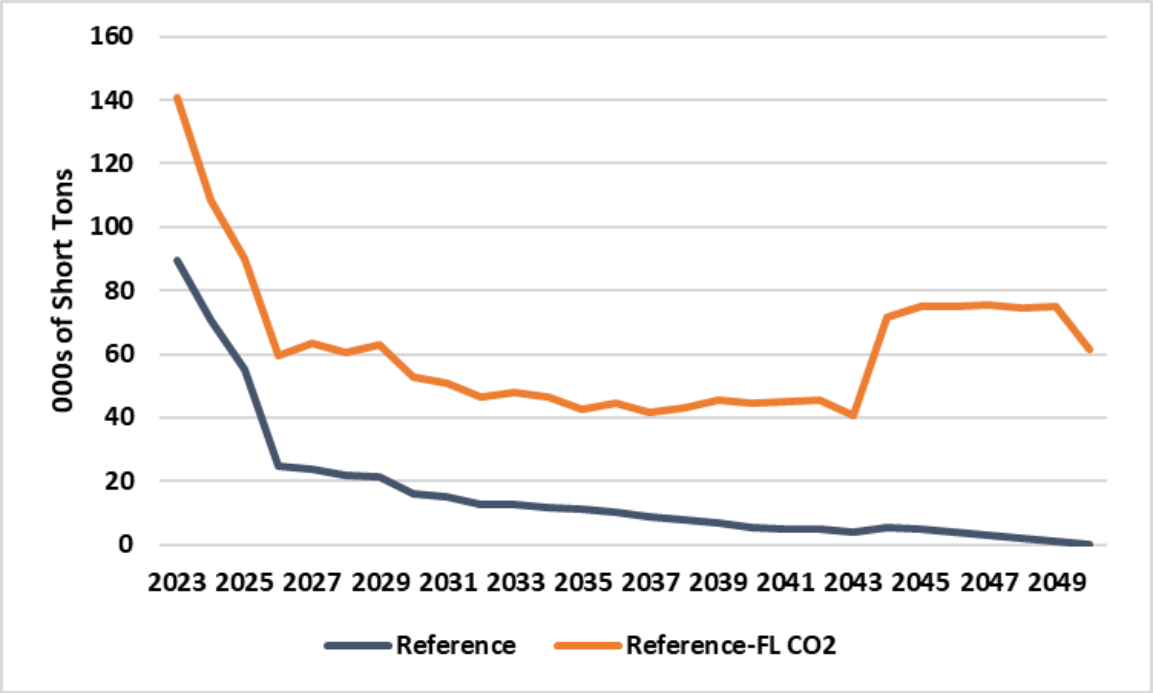
BASE CASE RESOURCE PLAN-PPA SENSITIVITY



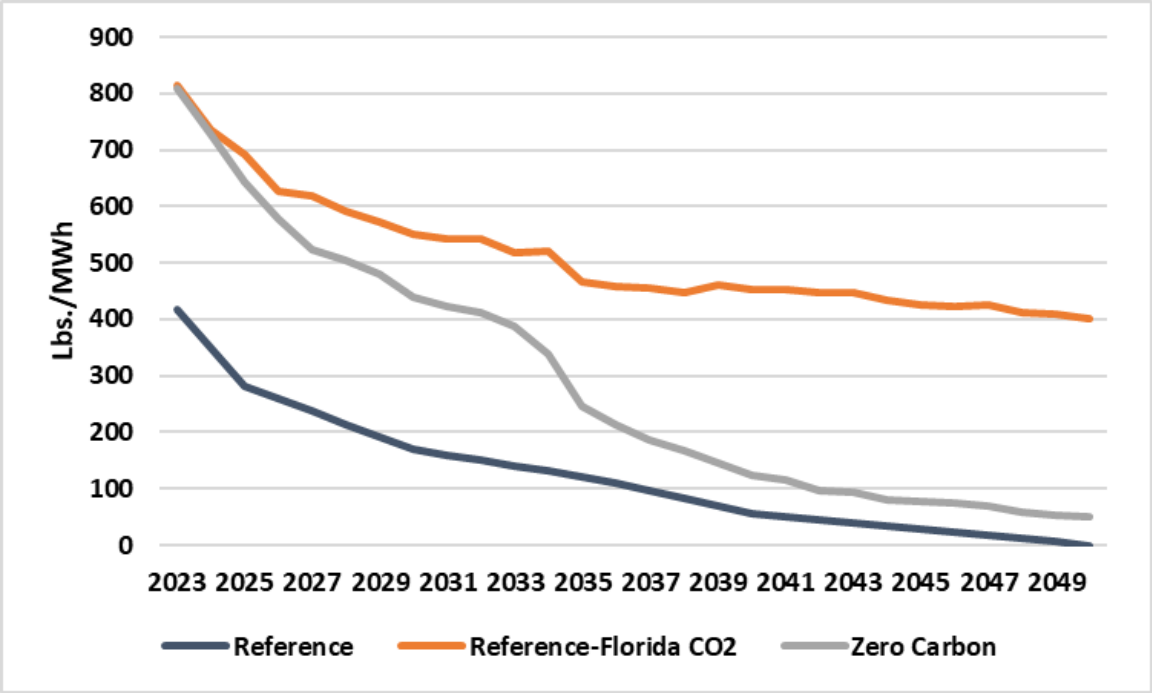
CARBON SENSITIVITY



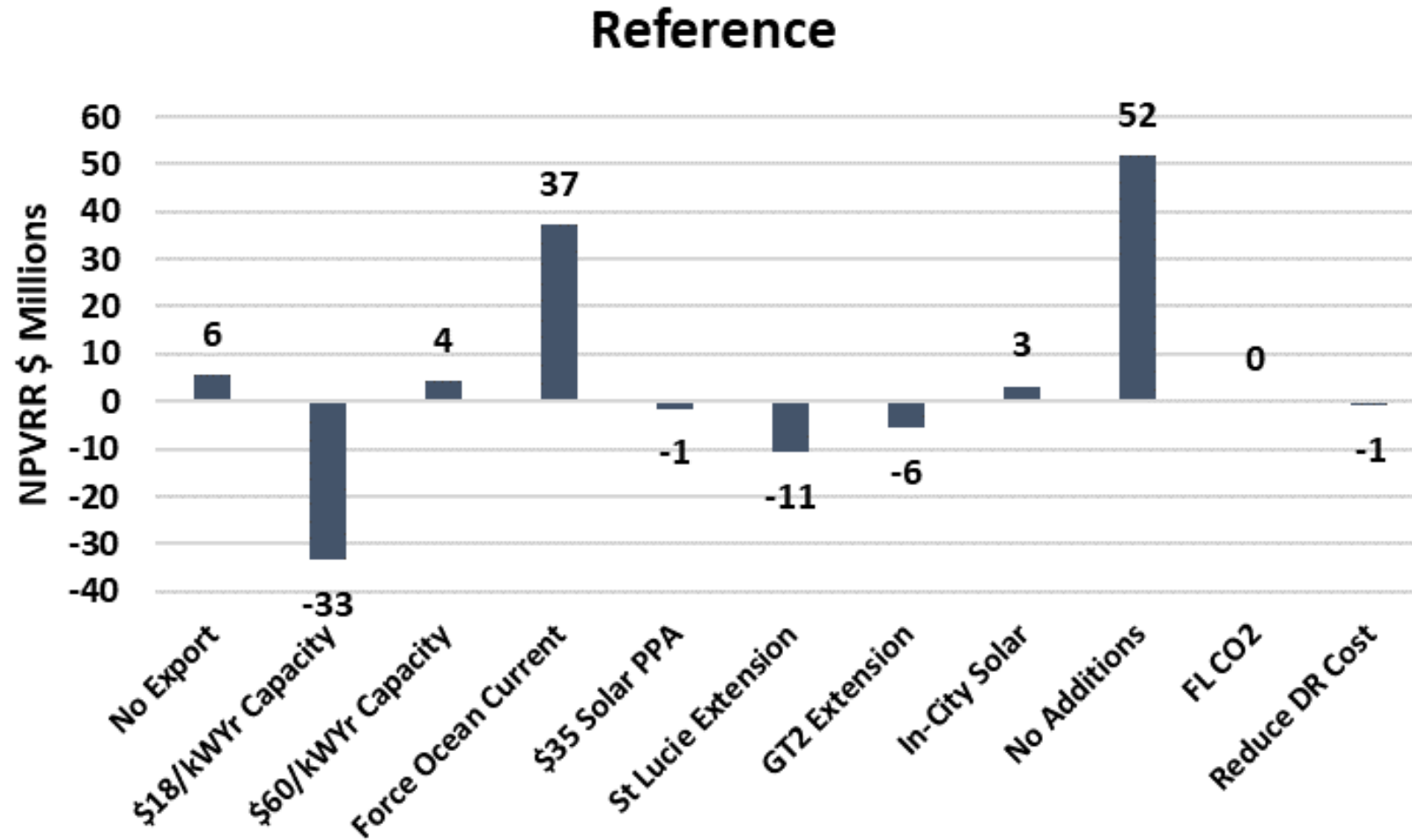
LWBEU Emission Forecast



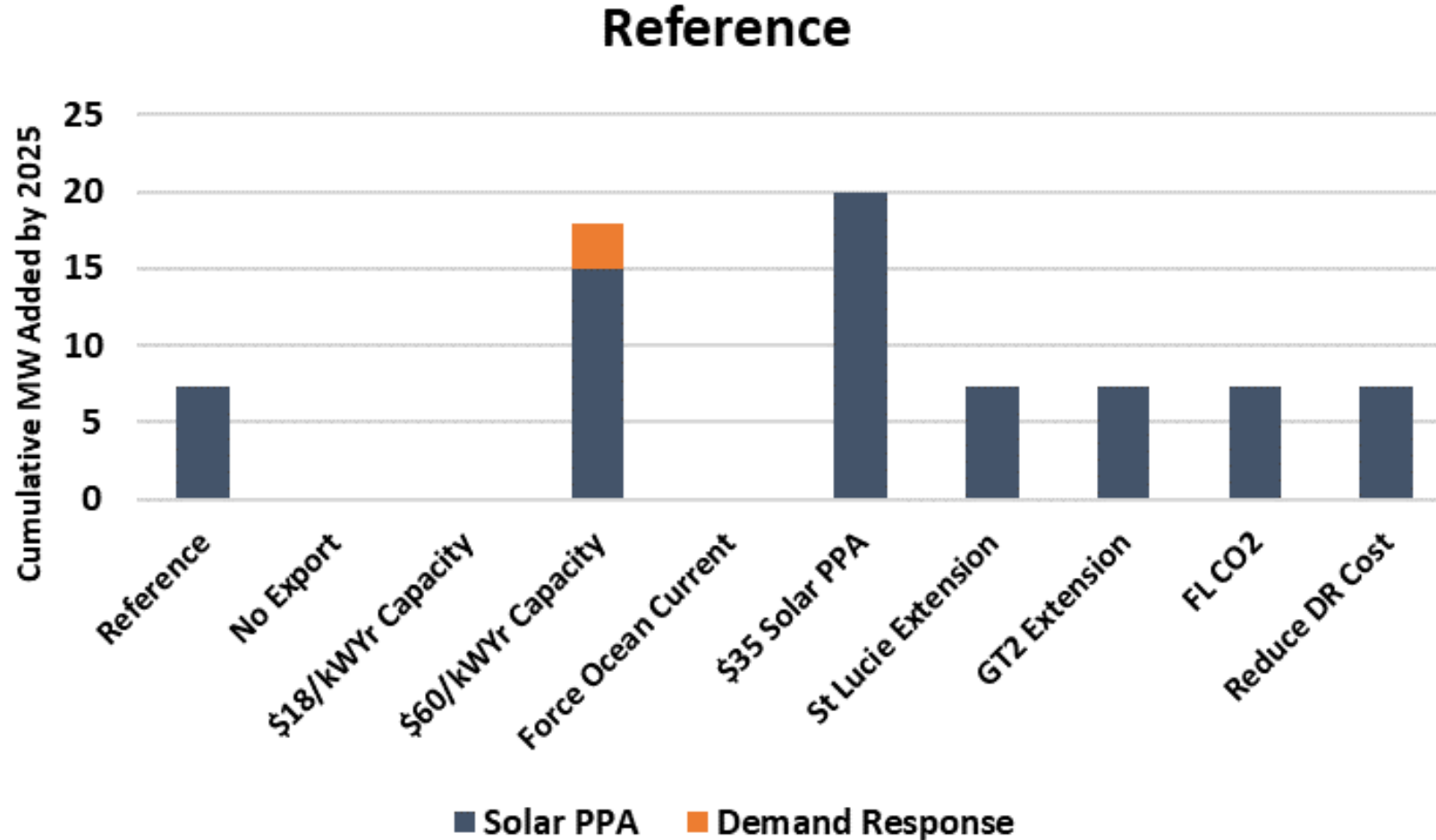
Florida Import Emission Rate



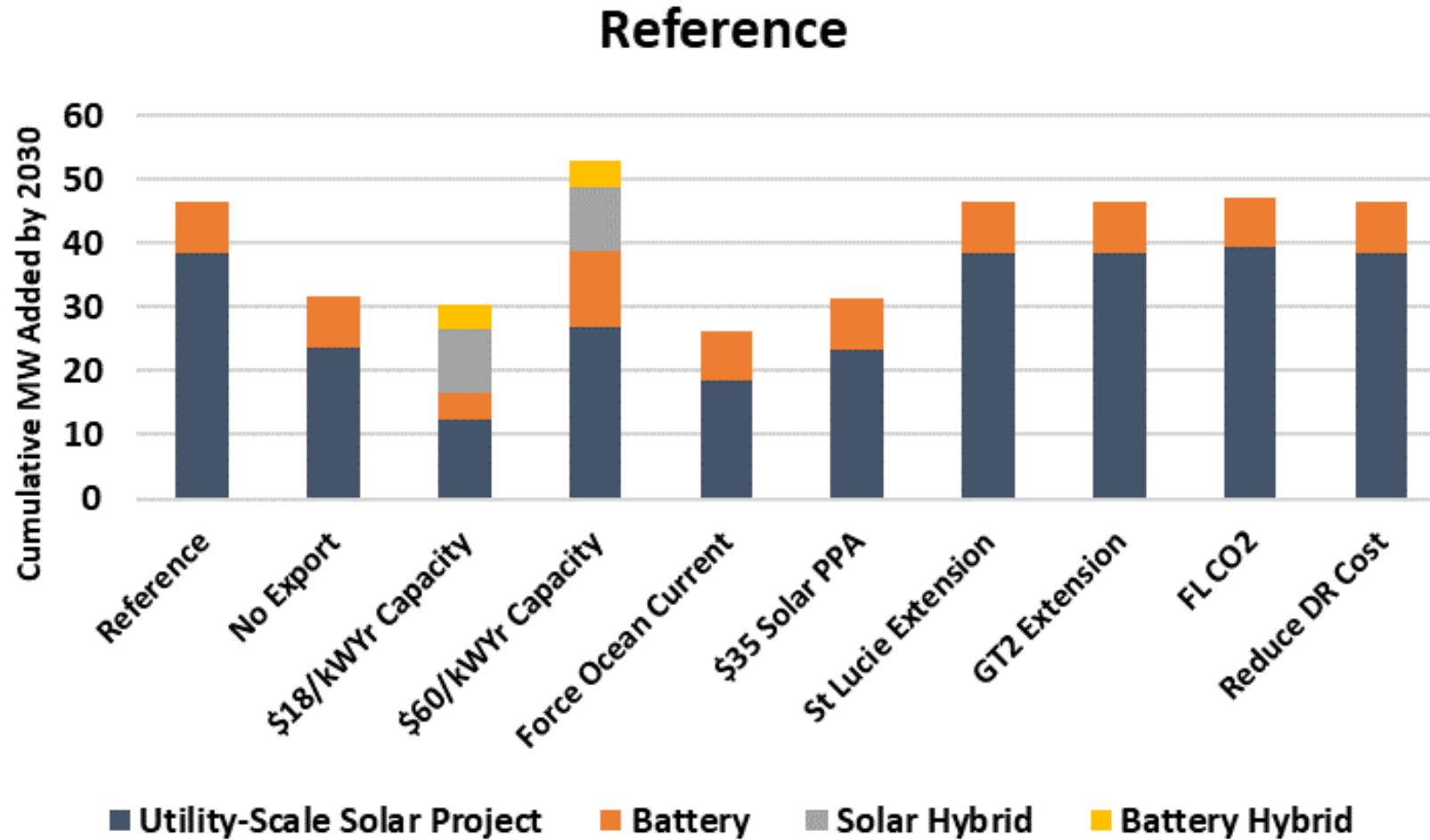
(SAVINGS)/COST



SOLAR PPA & DEMAND RESPONSE SENSITIVITIES



SOLAR ENTITLEMENT & BATTERIES BY 2030



FINDINGS

- New resource additions required over time
- Acquiring resources reduces costs over reliance on market
- Solar PPA is economic. Optimal size varies by scenario
- Zero carbon attainment highly dependent on import carbon rate
- GT 2 Extension in 2028 reduces costs by \$6 million NPV
- In-City Solar in 2024 increases costs by \$3 million NPV

PORTFOLIO SELECTION

- 2023-2030
 - Solar PPA
 - Further evaluate economics of Demand Response (DR)
 - Further evaluate life extension on GT2
- 2031-2040
 - Need for firm capacity
 - Consider: mix of batteries, DR, CT
 - Solar entitlement
- 2041-2050
 - St. Lucie and FMPP solar retirement
 - Low carbon purchases