

2016 Resource Plan Update – Scenario Results Resource Management Commission April 2017

Recap of Goals & Directives from 2014 Update



- 2014 Austin Energy Resource Plan (Progress to date)
 - 55% renewables by 2025 (30%)
 - 900 MW Demand Side Management by 2025 (576MW)
 - 700 MW energy efficiency by 2020
 - Demand Response
 - 100 MW by 2020 and additional 100 MW by 2025 (54MW)
 - 950 MW solar by 2025
 - 110 MW Local Solar by 2020 and additional 90 MW by 2025 if affordable (74 MW)
 - 750 MW Utility Scale Solar by 2025
 - 275.5 MWs Operational with E. Pecos (Bootleg) of 118 MW Commercial on 4/5/2017
 - 320 MW under contract
 - CO2 emissions
 - 20% reduction from 2005 levels by 2020 (Meeting)
 - Retirement of Fayette Coal Plant beginning in 2023 (in progress)
 - Affordability
 - 2% limit per year (met)
 - Rates should be in the lower 50th percentile statewide (slightly above trending lower)
 - 10 MW (lithium ion batteries) local storage by 2025 + 20 MW of thermal storage (17MW Thermal/3 MWe in progress)
 - Retire Decker steam units by 2019 and replace with 500 MW efficient combined-cycle (pending) – subject to a third party study (complete)

Strategies & Scenarios



Five broad Strategies with different themes



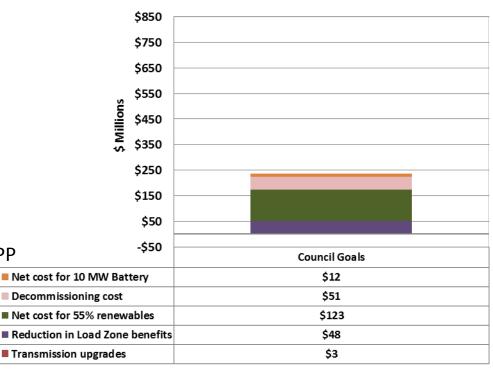
Cost of Achieving Council Goals from Current Generation Mix



• Council goals include

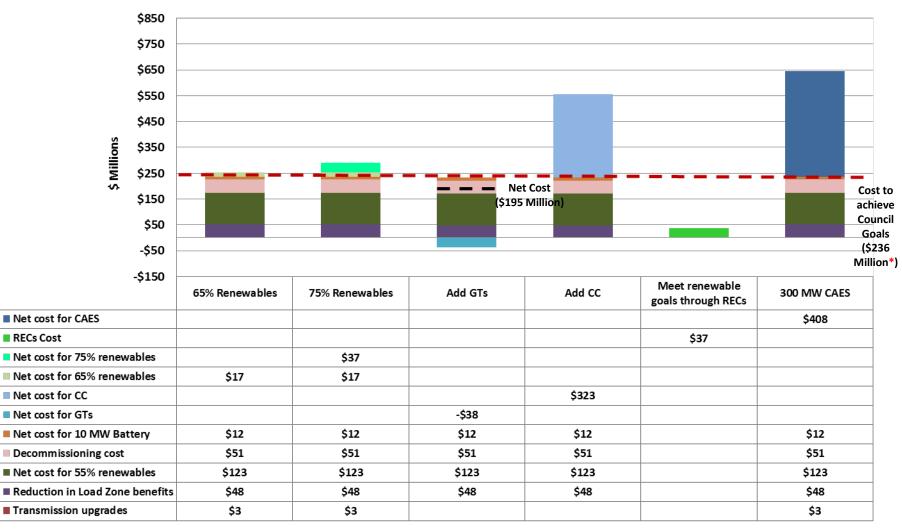
- Ramp down & exit FPP in 2023
- Retire Decker in 2021
- Add renewables to meet goals which includes 200 MW local solar
- Upgrade Austin Energy transmission system to accommodate decker retirement
- The cost of achieving council goals is the delta above the current generation mix (do nothing) scenario and does not factor the FPP debt/Operations & Maintenance (O & M)
 cost

20 Year Net Present Value (NPV) Delta*



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Other results

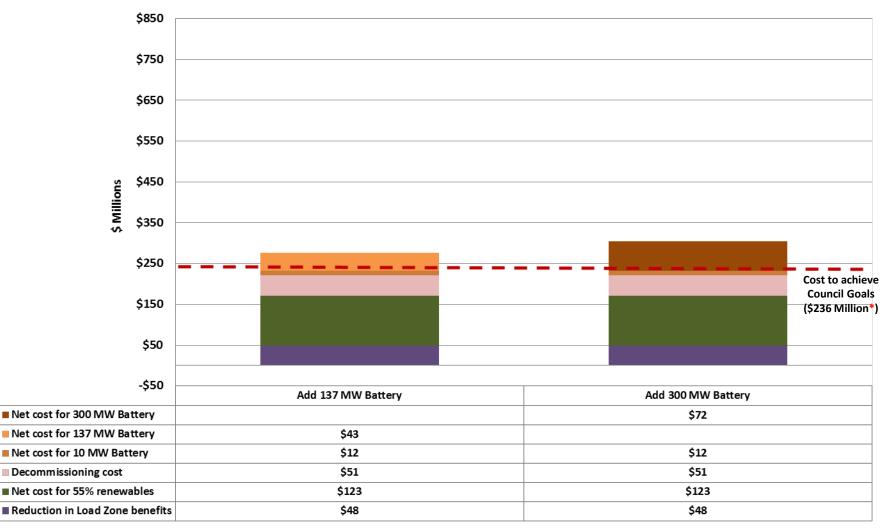


20 Year Net Present Value (NPV) Delta*

Cost Of Adding Battery at Decker from Current Generation Mix



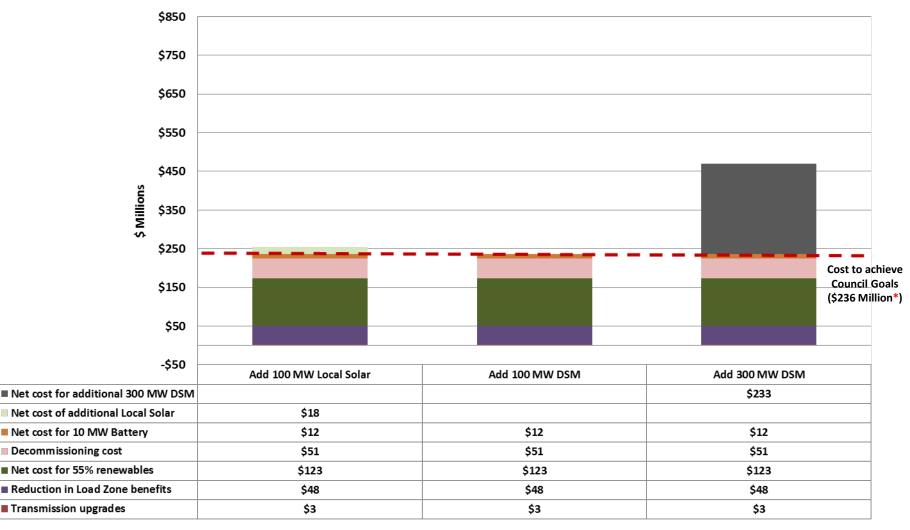
20 Year Net Present Value (NPV) Delta*



Cost of Increasing DSM & Local Solar from Current Generating Mix

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20 Year Net Present Value(NPV) vs. Cost at Risk (Without CO2)

20- year Net Present Value vs. Cost @ Risk (Levelized 2017\$)

