

T&D Deferral Methodology

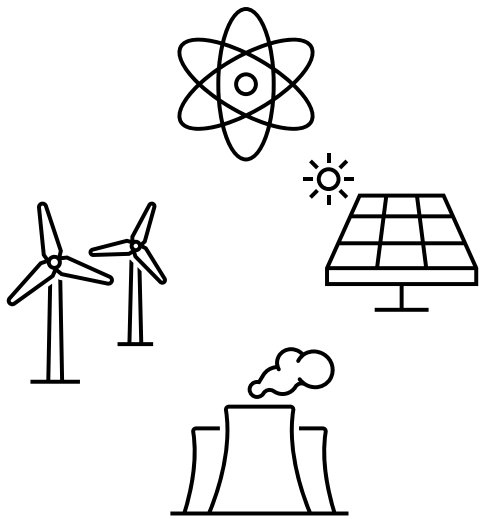


Jared Hansen
Resource Planning Leader

Energy Efficiency Value



Energy Savings

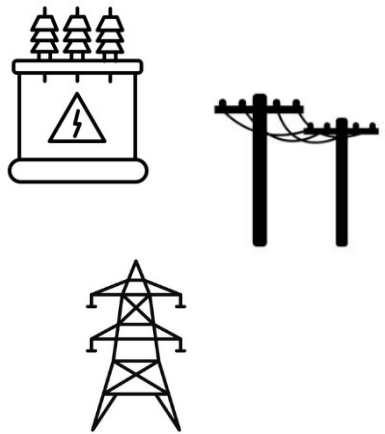


Energy Efficiency

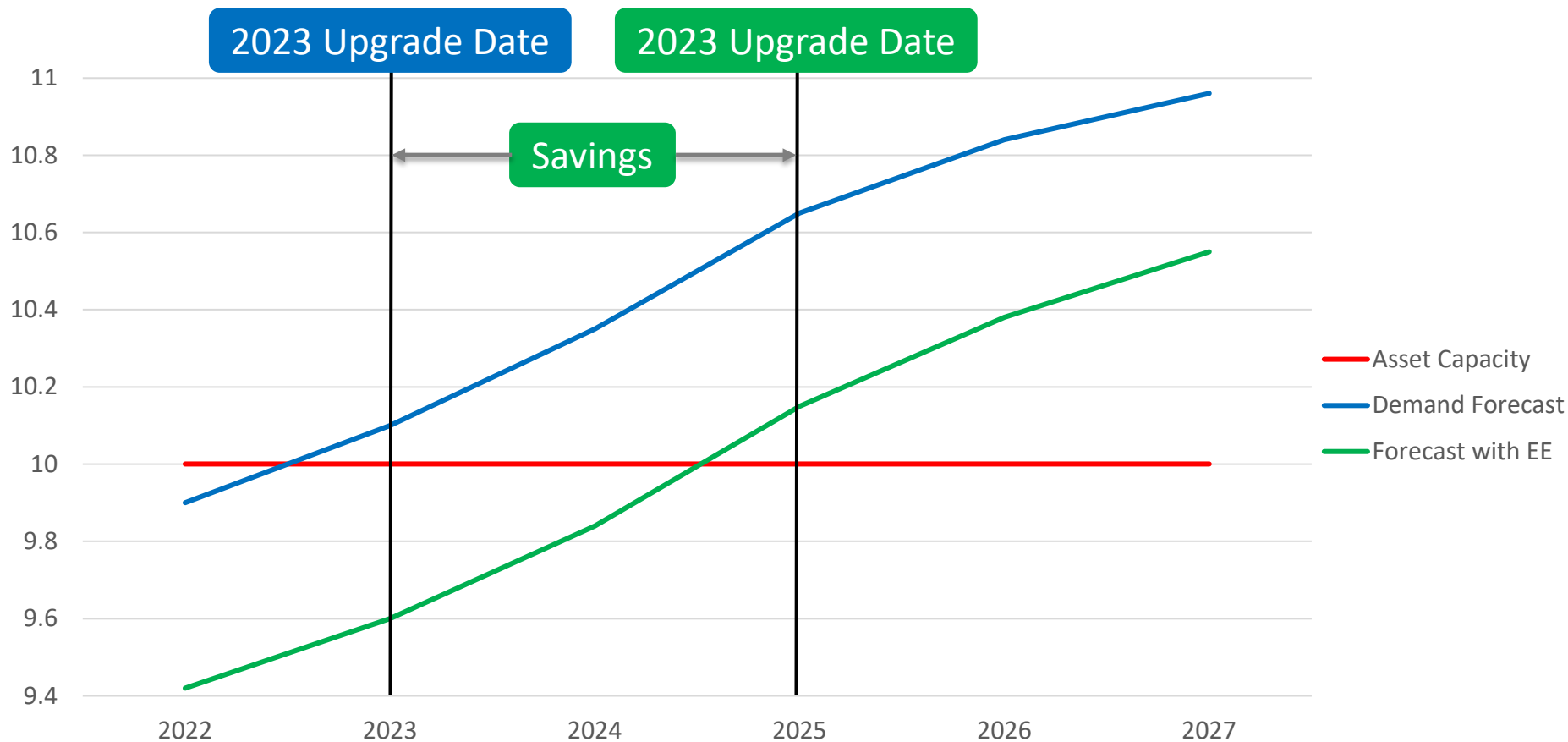


- Avoided Energy
- Avoided Capacity
- T&D Deferral

T&D Deferral



T&D Deferral Example



Old Methodology



Year	EE Forecast
2023	0.97%
2024	1.01%
2025	1.10%
2026	1.12%
2027	1.10%
2028	1.07%
2029	1.03%
2030	0.99%
2031	0.96%
2032	0.92%

EE Measure Lifespan



Year	EE Forecast
2012	1.22%
2013	0.75%
2014	1.03%
2015	1.16%
2016	1.21%
2017	1.31%
2018	1.26%
2019	1.39%
2020	1.34%
2021	0.93%
2022	0.95%
2023	0.97%

EE Accumulation

Year	EE Forecast	Accumulated EE
2012	1.22%	
2013	0.75%	
2014	1.03%	
2015	1.16%	
2016	1.21%	
2017	1.31%	
2018	1.26%	
2019	1.39%	
2020	1.34%	
2021	0.93%	
2022	0.95%	
2023	0.97%	13.53%

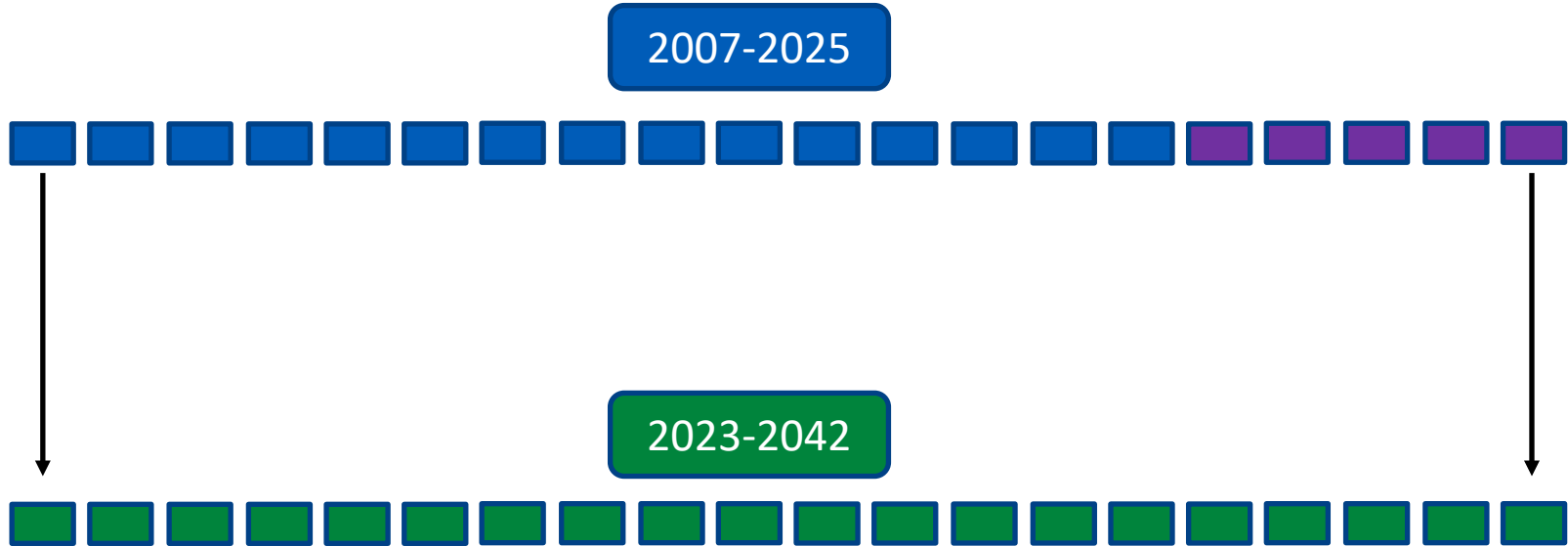
EE Accumulation



Year	EE Forecast	Accumulated EE
2023	0.97%	13.53%
2024	1.01%	13.32%
2025	1.10%	13.67%
2026	1.12%	13.77%
2027	1.10%	13.71%
2028	1.07%	13.56%
2029	1.03%	13.28%
2030	0.99%	13.01%
2031	0.96%	12.58%
2032	0.92%	12.15%

Year	EE Forecast	Accumulated EE
2033	0.86%	12.08%
2034	0.81%	11.95%
2035	0.77%	11.75%
2036	0.58%	11.32%
2037	0.51%	10.74%
2038	0.42%	10.04%
2039	0.39%	9.33%
2040	0.35%	8.61%
2041	0.27%	7.86%
2042	0.21%	7.07%

Accrual Approach



T&D Deferral Example



Location	Growth Rate	In-Service Load (MW)	Asset Capacity	Year	EE Forecast	EE Demand Reduction (MW)	Deferrable Years	Project Cost	Savings
Crane Creek	5.7%	2.22	2.13	2035	11.75%	0.22	2	\$322k	\$27k
Eagle	3.0%	10.18	10.00	2023	13.53%	0.99	3	\$424k	\$53k
Hill	13.8%	11.95	10.00	2022	10.04%	1.12	0	\$241k	\$0
Cloverdale	1.8%	8.08	7.91	2038	13.32%	0.78	5	\$200k	\$40k
Midrose	2.4%	11.1	10.00	2033	12.08%	1.07	0	\$1,362k	\$0

447 T&D Projects



T&D Deferral Value



447 T&D Projects

$$Value = \frac{\sum \frac{Savings}{EE\ Reduction}}{Years\ in\ Plan}$$

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T&D Deferral Value



IRP	T&D Deferral Value (\$/kW-year)
2021	3.74
2023*	6.73

*This will likely change. It is dependent on the results from the Potential Study

Iterative Process

