

RENEWABLE DENTON

The Mission:

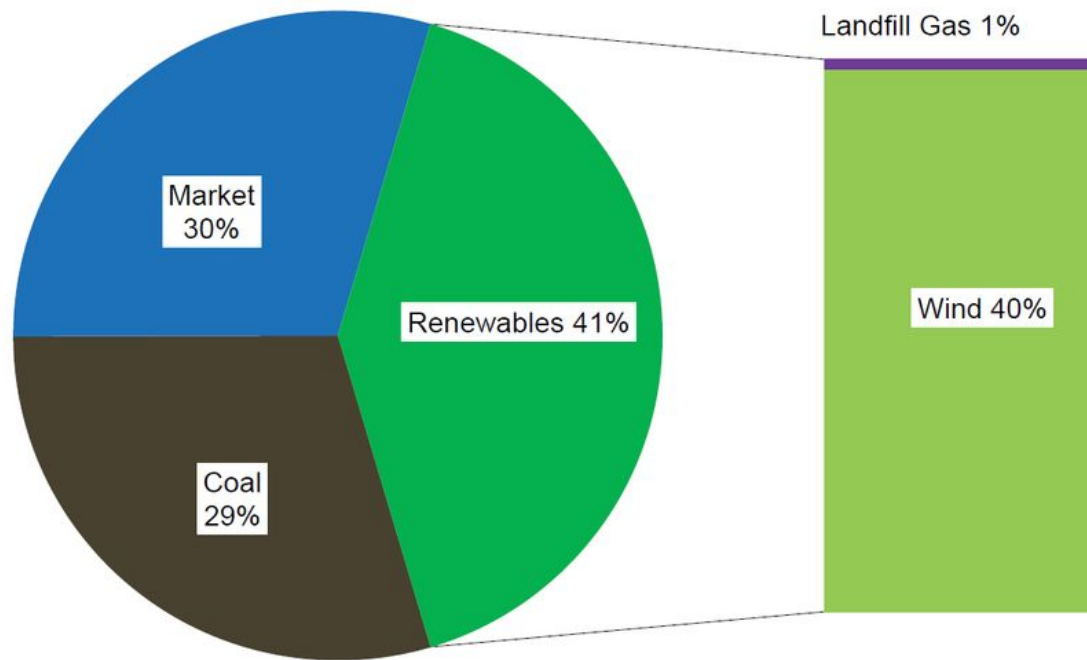
Increase renewable power in Denton from 40% to 70% by 2019.



Council Direction to DME

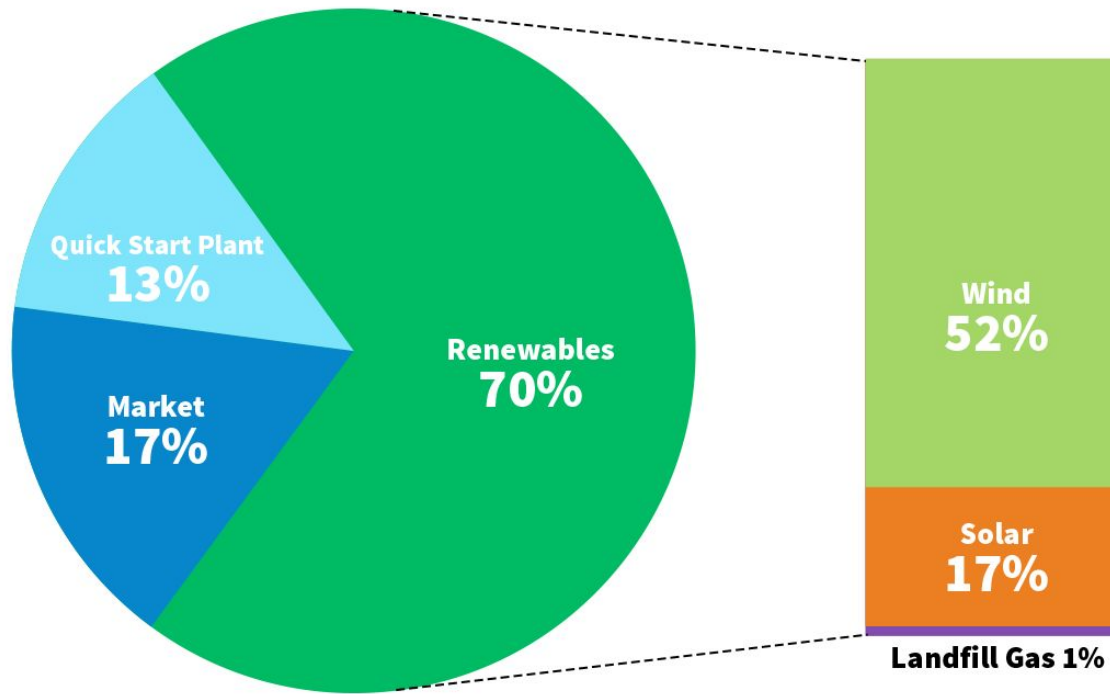
- Increase renewables
- Maintain competitive rates
- Maintain reliability

Current Energy Portfolio Mix



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PROJECTED ENERGY MIX WITH RENEWABLE DENTON



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/12

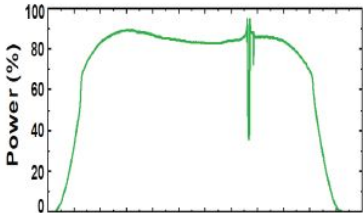
Renewable Denton Components

- Renewables (70%)
 - Lock in favorable pricing for the next 20 years
 - Intermittent and Non-dispatchable
- Market purchases (17%)
 - Take advantage of low prices
- Quick Start Generation (13%)
 - Protection from high prices
 - Allows for favorably-priced renewables

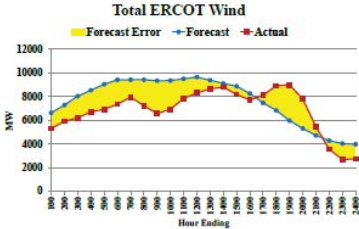
What About Conservation?

- Solar Rebates
 - 68 residential
 - 16 commercial
- Efficiency Rebates
 - >4,600
 - >\$2.6 million
- Energy Audits
 - > 100 per year

Variability of Renewable Energy Production



Cloud Cover

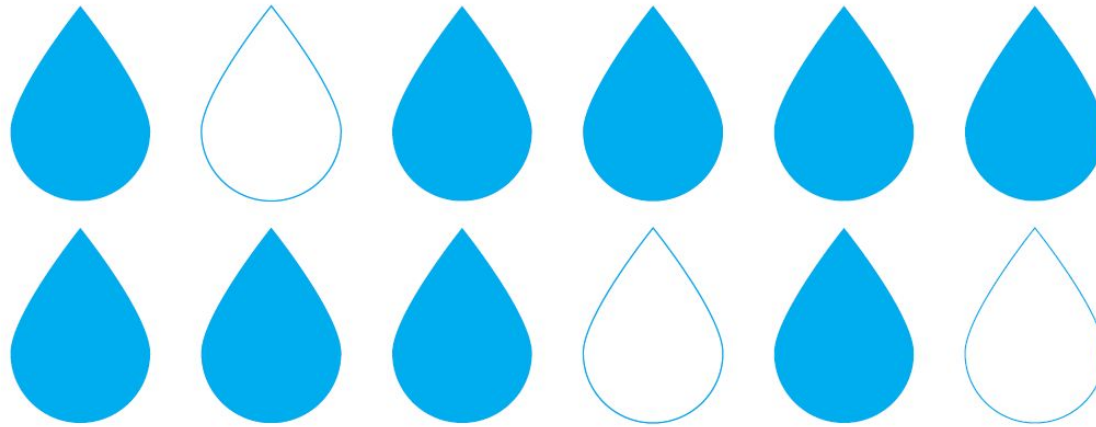


Variable Wind Patterns



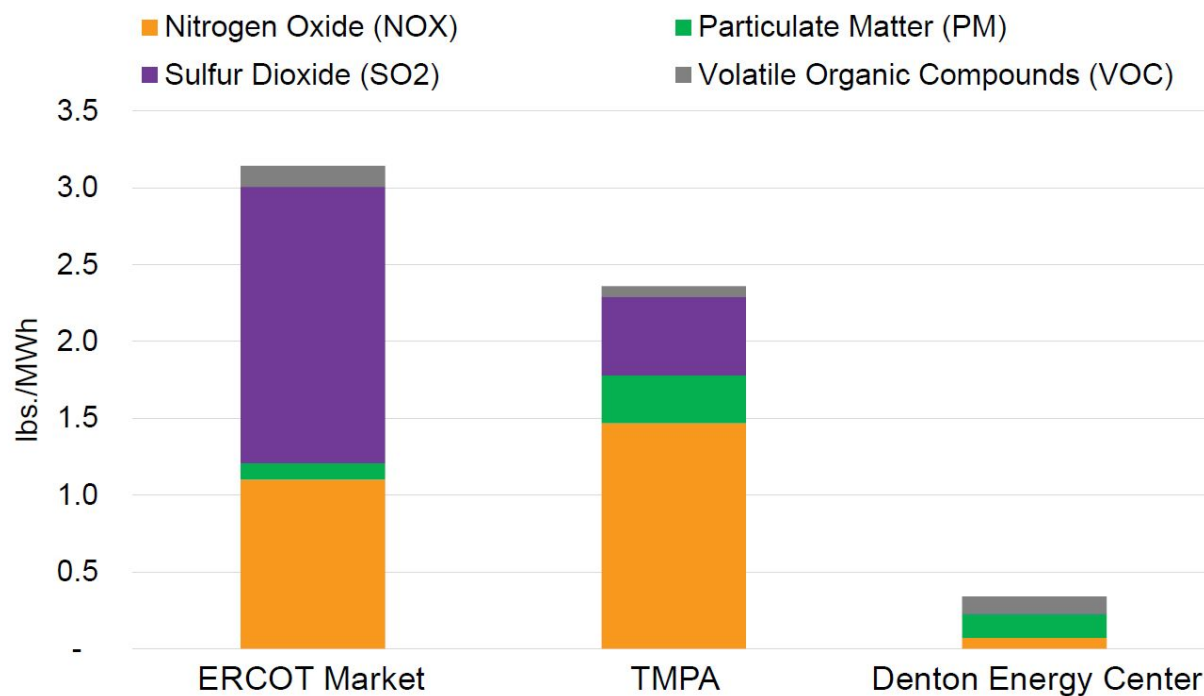
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Water Usage



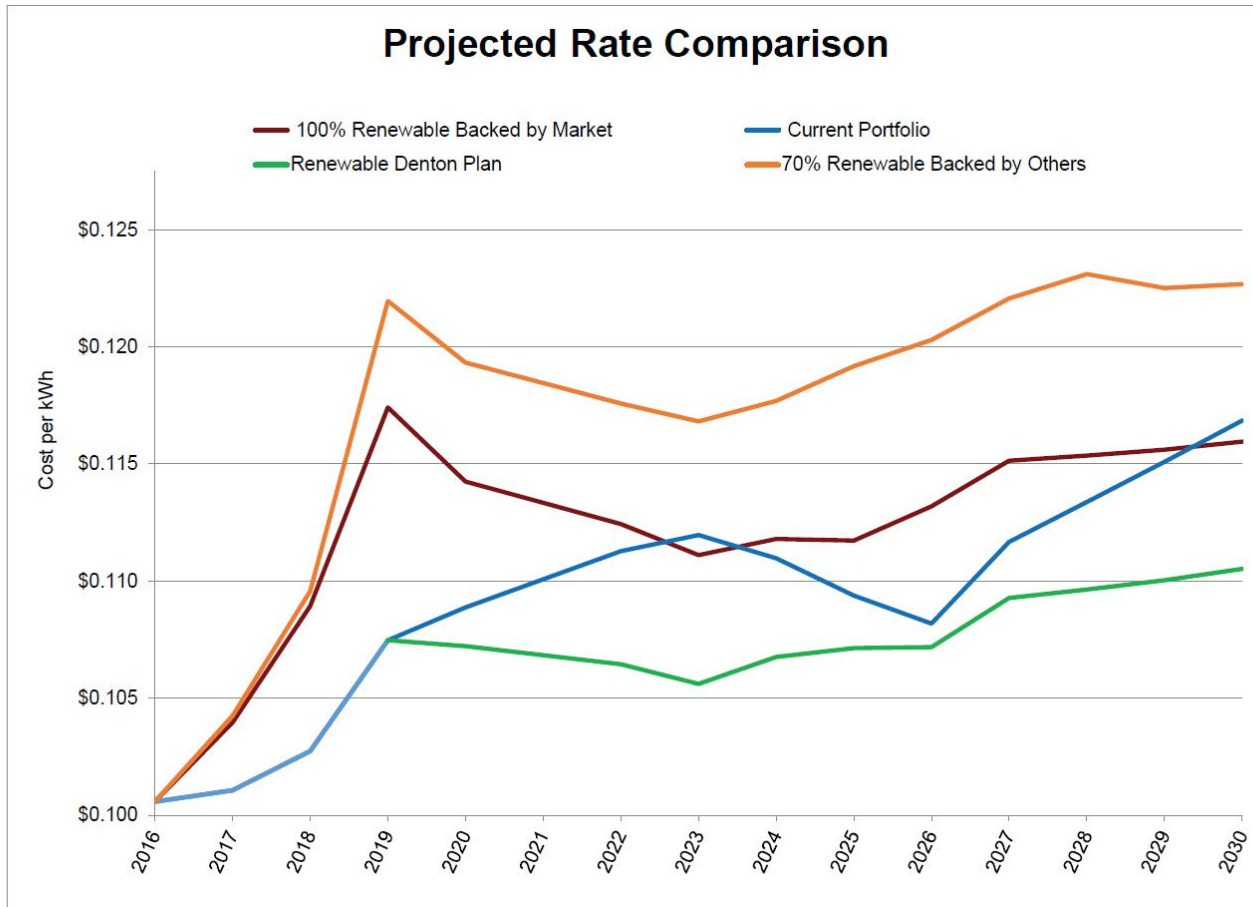
The proposed plan calls for a type of generation facility that has very low water usage - approximately 12 gallons per week. Such low water usage is an advantage in drought-prone areas.

Emissions Comparison



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Projected Rate Comparison



Brattle Assessment

- “DME designed the [RDP] to increase Denton’s renewable generation without creating additional costs for ratepayers.”
- “The [RDP] is the most cost efficient option”
- “Both the renewable [energy contracts] and the [Denton Energy Center] are integral parts of the [RDP].”
- “In addition to providing these economic benefits, the [RDP] will lower fossil fuel usage and associated air emissions.”
- “The [RDP] appears to be the lowest costs and most reliable option for ... higher renewable penetration.”



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/12

12