

Drake Update

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Major Project Plans

		2018				2019				2020	2021	2022	2023
		Qrt 1	Qrt 2	Qrt 3	Qrt 4	Qrt 1	Qrt 2	Qrt 3	Qrt 4				
Drake	Transmission Projects	Kelker Transformer											
		Cottonwood Transformer											
						Nixon-Kelker Line Upgrades							
						Series Reactor							
										North System Solution			
		Transmission Planning Study											
					Transmission System Expansion at Kelker*								
					New 230 kV Midway-Nixon Line*								
				New 115 kV Kelker-Drake Line*									
Drake Site					Salvage Value								
					Phase II				→				
					Appraisal				→				
IRP	Electric									EIRP			
	Gas									GIRP			
RTO		Board Decision			RTO Implementation								
Energy Vision	2020	EV 2020 Implementation											
	2030/2050	EV 20302050											

December Direction

Support 3c – distributed generation and import power options, including no generation at Drake or Birdsall sites

Complete transmission projects

Complete site assessment studies to include:

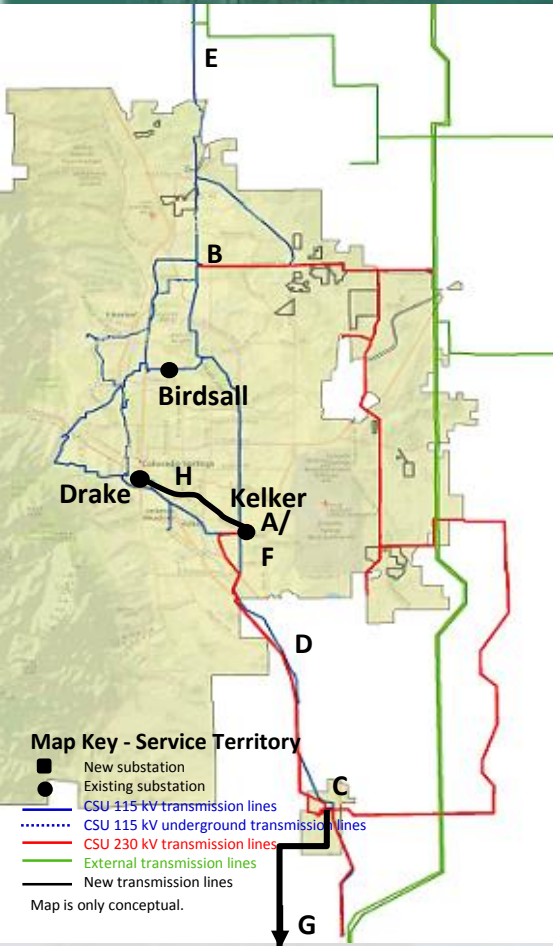
- Appraisal
- Phase II environmental assessment
- Evaluation of salvage value by 2019

Complete an EIRP by end of 2020

Drake Planning Discussion

		2018				2019				2020	2021	2022	2023
		Qrt 1	Qrt 2	Qrt 3	Qrt 4	Qrt 1	Qrt 2	Qrt 3	Qrt 4				
Drake	Transmission Projects	Kelker Transformer											
		Cottonwood Transformer											
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	Drake Site				Salvage Value								
				Phase II				→					
				Appraisal				→					

Drake Planning Discussion



<u>Project</u>	<u>Description</u>
A) Kelker Transformer	Add new transformer to maintain compliance with NERC standards for outage contingencies
B) Cottonwood Transformer	Upgrade and replacement oldest transformer retaining the old as a spare for NERC compliance
C) Series Reactor	Add reactor in substation to control power flow and reduce overloads during double circuit contingency outage
D) Nixon-Kelker Upgrades	Raise several transmission line structures to allow for more capacity along the line
E) North System Solution	Work with PSCo to install a specialized transformer in Monument to control the throughflow on CSU's system
F) Kelker Expansion	Expand the substation to allow for additional lines and improve reliability for extreme event contingencies
G) New Midway-Nixon Line	Add 230kV line to increases import and export capability and improve reliability
H) New Kelker-Drake Line	Add 115kV line to provide replacement power for Drake Decommissioning