



# PID Options Evaluation Approach

11/18/2021

# Agenda

- Preliminary Screening
- Priority Ranking
- Portfolio Development
- Evaluation Criteria
  - Rating
  - Weightage
- Next Steps



# Options Summary

Options Category	Option No.	Option Name
No Project	1	Do Nothing
Financial Claims	2	PG&E
	3	FEMA
	4	Insurance
	5	ASADRA
	6	Miocene Canal
Infrastructure	7	Chico Intertie
	8	Magalia Dam retrofit
	9	Butte County
Water Transfer	10	N/O Delta (Not Butte)
	11	S/O Delta
	12	PID into: ToP
Agency Reorg	13	PID into: SFWPA
	14	Into PID: Del Oro
	15	Paradise Sewer
Others	16	Metering
	17	Water Bottling
	18	Voluntary Agreements
Funding Augmentation	19	Rate Increases
	20	Assessments
	21	Taxes
	22	Grants and Loans
	23	SWRCB Funding Assistance



# Preliminary Screening

Options Category	Option No.	Option Name
No Project	1	<del>Do Nothing</del>
Financial Claims	2	PG&E
	3	FEMA
	4	<del>Insurance</del>
	5	ASADRA
	6	Miocene Canal
Infrastructure	7	Chico Intertie
	8	Magalia Dam retrofit
	9	Butte County
Water Transfer	10	N/O Delta (Not Butte)
	11	<del>S/O Delta</del>
	12	PID into: ToP
Agency Reorg	13	PID into: SFWPA
	14	<del>Into PID: Del Oro</del>
	15	Paradise Sewer
Others	16	<del>Metering</del>
	17	<del>Water Bottling</del>
	18	<del>Voluntary Agreements</del>
Funding Augmentation	19	Rate Increases
	20	Assessments
	21	Taxes
	22	Grants and Loans
	23	SWRCB Funding Assistance



# Priority Ranking

Options Category	Option No.	Option Name	Priority Ranking
No Project	1	<del>Do Nothing</del>	<del>N</del>
Financial Claims	2	PG&E	
	3	FEMA	
	4	<del>Insurance</del>	<del>N</del>
	5	ASADRA	
	6	Miocene Canal	
Infrastructure	7	Chico Intertie	
	8	Magalia Dam retrofit	
	9	Butte County	
Water Transfer	10	N/O Delta (Not Butte)	
	11	<del>S/O Delta</del>	<del>N</del>
	12	PID into: ToP	
Agency Reorg	13	PID into: SFWPA	
	14	<del>Into PID: Del Oro</del>	<del>N</del>
	15	Paradise Sewer	
Others	16	<del>Metering</del>	<del>N</del>
	17	<del>Water Bottling</del>	<del>N</del>
	18	<del>Voluntary Agreements</del>	<del>N</del>
Funding Augmentation	19	Rate Increases	
	20	Assessments	
	21	Taxes	
	22	Grants and Loans	
	23	SWRCB Funding Assistance	



# Priority 1

Options Category	Option No.	Option Name	Priority Ranking
No Project	1	Do Nothing	N
Financial Claims	2	PG&E	1
	3	FEMA	
	4	Insurance	N
	5	ASADRA	
	6	Miocene Canal	1
Infrastructure	7	Chico Intertie	1
	8	Magalia Dam retrofit	
	9	Butte County	1
Water Transfer	10	N/O Delta (Not Butte)	
	11	S/O Delta	N
	12	PID into: ToP	1
Agency Reorg	13	PID into: SFWPA	1
	14	Into PID: Del Oro	N
	15	Paradise Sewer	
Others	16	Metering	N
	17	Water Bottling	N
	18	Voluntary Agreements	N
Funding Augmentation	19	Rate Increases	
	20	Assessments	
	21	Taxes	
	22	Grants and Loans	
	23	SWRCB Funding Assistance	



# Priority 2

Options Category	Option No.	Option Name	Priority Ranking
No Project	1	Do Nothing	N
Financial Claims	2	PG&E	1
	3	FEMA	2
	4	Insurance	N
	5	ASADRA	2
	6	Miocene Canal	1
Infrastructure	7	Chico Intertie	1
	8	Magalia Dam retrofit	2
	9	Butte County	1
Water Transfer	10	N/O Delta (Not Butte)	2
	11	S/O Delta	N
	12	PID into: ToP	1
Agency Reorg	13	PID into: SFWPA	1
	14	Into PID: Del Oro	N
	15	Paradise Sewer	2
Others	16	Metering	N
	17	Water Bottling	N
	18	Voluntary Agreements	N
	19	Rate Increases	
Funding Augmentation	20	Assessments	
	21	Taxes	
	22	Grants and Loans	2
	23	SWRCB Funding Assistance	2



# Priority 3

Options Category	Option No.	Option Name	Priority Ranking
No Project	1	Do Nothing	N
Financial Claims	2	PG&E	1
	3	FEMA	2
	4	Insurance	N
	5	ASADRA	2
	6	Miocene Canal	1
Infrastructure	7	Chico Intertie	1
	8	Magalia Dam retrofit	2
	9	Butte County	1
Water Transfer	10	N/O Delta (Not Butte)	2
	11	S/O Delta	N
	12	PID into: ToP	1
Agency Reorg	13	PID into: SFWPA	1
	14	Into PID: Del Oro	N
	15	Paradise Sewer	2
Others	16	Metering	N
	17	Water Bottling	N
	18	Voluntary Agreements	N
	19	Rate Increases	3
Funding Augmentation	20	Assessments	3
	21	Taxes	3
	22	Grants and Loans	2
	23	SWRCB Funding Assistance	2





# Portfolio Development

## ➤ Portfolios

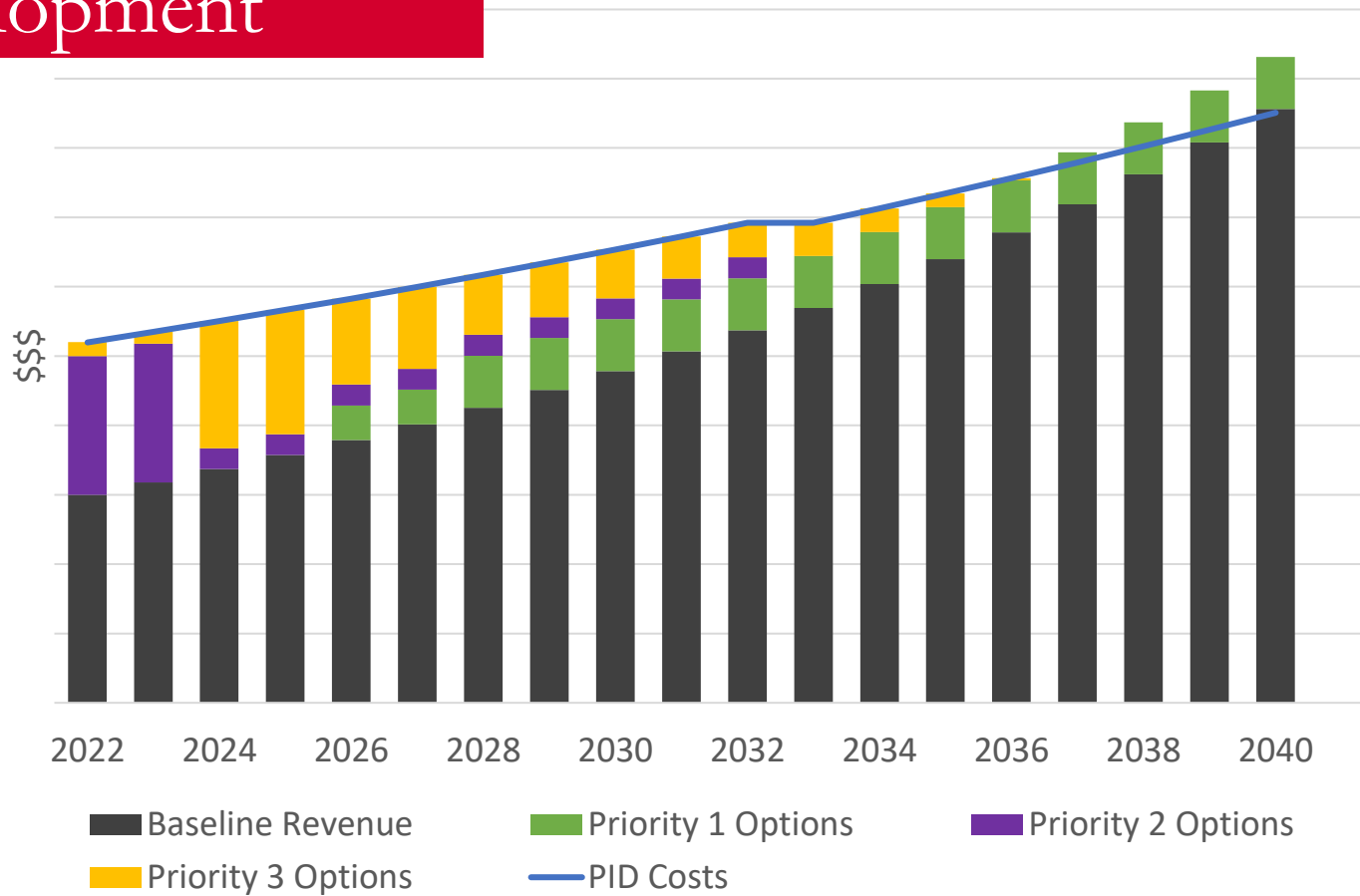
- Groups of complimentary Options
- Together achieve the goals and objectives of the study

## ➤ Four Portfolios

- Financial Claims
- Agency Reorganization
- Infrastructure
  - Miocene Canal
  - Chico Intertie
- Water Transfers



# Portfolio Development



*Example: Not real data*



# Financial Claim Portfolio

- Relies on financial claim to PG&E to make up the financial deficits of PID
- Priority 2 Options include:
  - FEMA
  - ASADRA
  - Grants and Loans
  - SWRCB Funding assistance
- Priority 3 Options will include, if needed,
  - Rate Increases
  - Assessments
  - Taxes



## Agency Reorg Portfolio

- Organizational changes to help PID overcome financial deficits
  - Town of Paradise **or** South Feather Water and Power Agency
  
- Priority 2 Options includes:
  - FEMA
  - ASADRA
  - Grants and Loans
  - SWRCB Funding assistance
  
- Priority 3 Options include, if needed,
  - Rate Increases
  - Assessments
  - Taxes



## Water Transfers

- Portfolio that focuses on providing water transfers without major infrastructure options
- Assumes Magalia Dam Retrofit would be completed in 10 years
  - Increase in water availability and reliability



# Water Transfers

- Priority 2 Options to be included as needed to generate revenue:
  - FEMA
  - ASADRA
  - Grants and Loans
  - SWRCB Funding assistance
  
- Priority 3 Options will be included, if needed,
  - Rate Increases
  - Assessments
  - Taxes



## Miocene Canal Portfolio

- Assumes Miocene Canal is repaired and transferred to PID
- PID to generate revenue from power generation and additional water transfers through Miocene Canal
- Assumes Magalia Dam Retrofit would be completed in 10 years
  - Increase in water availability and reliability



# Miocene Canal Portfolio

- Priority 2 Options to be included as needed to generate revenue:
  - Water Transfers (Combination of Butte Co and NoD)
  - FEMA
  - ASADRA
  - Grants and Loans
  - SWRCB Funding assistance
  
- Priority 3 Options will be included, if needed,
  - Rate Increases
  - Assessments
  - Taxes





## Chico Intertie Portfolio

- Assumes Chico Intertie will be built to allow sale of treated water to Chico
- Assumes Magalia Dam Retrofit would be completed in 10 years
  - Increase in water availability and reliability



# Chico Intertie Portfolio

- Priority 2 Options to be included as needed to generate revenue:
  - Water Transfers (Combination of Butte Co and NoD)
  - FEMA
  - ASADRA
  - Grants and Loans
  - SWRCB Funding assistance
  
- Priority 3 Options will be included, if needed,
  - Rate Increases
  - Assessments
  - Taxes



Options Category	Option No.	Option Name	Priority	Financial	Agency Reorg	Miocene Canal	Chico Intertie	Transfers
No Project	1	<del>Do Nothing</del>	<del>1</del>					
Financial Claims	2	PG&E	1	✓				
	3	FEMA	2	✓	✓	✓	✓	✓
	4	<del>Insurance</del>	<del>1</del>					
	5	ASADRA	2	✓	✓	✓	✓	✓
Infrastructure	6	Miocene Canal	1			✓		
	7	Chico Intertie	1				✓	
	8	Magalia Dam retrofit	2			✓	✓	✓
Water Transfer	9	Butte County	1			✓	✓	✓
	10	N/O Delta (Not Butte)	1			✓	✓	✓
	11	<del>S/O Delta</del>	<del>1</del>					
Agency Reorg	12	PID into: ToP	1		✓			
	13	PID into: SFWPA	2		✓			
	14	<del>Into PID: Del Oro</del>	<del>1</del>					
Others	15	Paradise Sewer	2				✓	
	16	Metering	1	✓	✓	✓	✓	✓
	17	<del>Water Bottling</del>	<del>1</del>					
	18	<del>Voluntary Agreements</del>	<del>1</del>					
Funding Augmentation	19	Rate Increases	3	✓	✓	✓	✓	✓
	20	Assessments	3	✓	✓	✓	✓	✓
	21	Taxes	3	✓	✓	✓	✓	✓
	22	Grants and Loans	2	✓	✓	✓	✓	✓
	23	SWRCB Funding Assistance	2	✓	✓	✓	✓	✓



# Portfolio Evaluation



# Evaluation Criteria

- Technical
- Economical
- Financial
- Regulatory
- Environmental Impacts
- Legal
- Stakeholder/Public Acceptance
- Implementation Timeline



# Evaluation Criteria Rating

- Each portfolio will be assigned a score of 1-3 for each of the Evaluation Criteria
  - 1 – Poor Performance
  - 3 – High Performance



# Evaluation Rating

Evaluation Criteria	Ranking		
	1	2	3
Technical Feasibility	<ul style="list-style-type: none"> <li>• New construction</li> <li>• <b>Above average</b> complexity and difficulty</li> </ul>	<ul style="list-style-type: none"> <li>• New construction</li> <li>• <b>Typical level</b> of complexity and difficulty</li> </ul>	<ul style="list-style-type: none"> <li>• Requires <b>no new</b> construction</li> </ul>
	<b>Inconsistent</b> with PID current and future objectives	Consistent with PID current objectives, <b>but not future</b>	Consistent with PID current and future objectives
	Provides <b>neither</b> short nor long term water reliability	Provides short- <b>or</b> long-term water reliability	Provides short- <b>and</b> long-term water reliability
Economic Feasibility	Higher cost than other portfolios	Average cost compared to other portfolios	Lower cost than other portfolios
Financial Feasibility	Changes to existing rate structure(s) will have impact to ratepayers	Changes to existing rate structure(s) has minimal impact to ratepayers	No impacts or benefit to ratepayers



# Evaluation Rating

Evaluation Criteria	Ranking		
	1	2	3
<b>Regulatory Feasibility</b>	Permitting requirements would take longer than 2 years	Permitting requirements can be completed within 2 years	Permitting requirements can be completed within 1 year
<b>Environmental Impacts</b>	Creates unmitigable impacts to physical resources	Creates minor or temporary but mitigable impacts to physical resources	Benefits biological resources
<b>Legal Feasibility</b>	Substantial legal challenges	Some legal challenges which may require legal support but not impact implementation	Limited legal challenges which would not impact implementation
<b>Stakeholder/Public Acceptance</b>	Low	Moderate	High
<b>Implementation</b>	Majority of Portfolio implemented by 2028 or beyond	Majority of Portfolio implemented between 2024-2027	Majority of Portfolio implemented by 2023





# Evaluation Weightage

<b>Evaluation Criteria</b>	<b>Weightage</b>
Technical Feasibility	20%
Economic Feasibility	15%
Financial Feasibility	10%
Regulatory Feasibility	10%
Environmental Impacts	10%
Legal Feasibility	10%
Stakeholder/Public Acceptance	15%
Implementation	10%



# Evaluation Score

<b>Evaluation Criteria</b>	<b>Weightage</b>	<b><i>Example Score</i></b>	<b><i>Example Weighted Score</i></b>
Technical Feasibility	20%	3	$20\% \times 3 = 0.6$
Economic Feasibility	15%	2	0.3
Financial Feasibility	10%	2	0.2
Regulatory Feasibility	10%	3	0.3
Environmental Impacts	10%	1	0.1
Legal Feasibility	10%	1	0.1
Stakeholder/Public Acceptance	15%	1	0.15
Implementation	10%	2	0.2
Example Portfolio Score (Maximum of 3.0)			1.95



## GEI Next Steps

- Water supply and financial analysis for all portfolios
- Portfolios
  - Evaluation Ratings
  - Evaluation Scoring
- Draft Options Evaluation Report



Questions?

GEI



Consultants

Consulting  
Engineers and  
Scientists