El Paso Electric
2025 Integrated Resource Plan
Stakeholder Model Request Form

The purpose of this form is to gather IRP Modeling requests from Stakeholders. Once received, EPE will review your request and may contact you for more information. Furthermore, if your request is similar to other requests, EPE will consolidate your request into a group request.

Instructions:

1) *In the Model Assumptions section, select one sensitivity from the Level 2 options. If the '**No New Gas**' option was selected, select the sensitivity options available for Load Growth. If the '**New System Gas Converted to Carbon Free by 2045**' option was selected, select the sensitivy options available for Load Growth and Fuel Prices.*
2) *In the Stakeholder Request section, please specify one assumptions you would like to change. Please provide specific detailed information.*
3) *In the Contact Information section, please complete your information in case EPE needs to contact you for more information.*

Model Assumptions — **Core Scenario: Least-Cost + REA**

Level 2

Sensitivity Options for No New Gas

Future Gas Options	Load Growth	Fuel Prices
☑ No New Gas	☑ 2024 Base Load + Large Load Customers ☐ Base + Additional Large Load Customers ☐ High Load Growth (Economic, Electrification)	***All Load Growth Options for No New Future Gas will assume Base Fuel Prices***

Sensitivity Options for New Gas Conversion by 2045

	Load Growth	Fuel Prices
☑ New System Gas Converted to Carbon Free by 2045	☑ 2024 Base Load + Large Load Customers	☐ Base Fuel Prices ☐ Low Fuel Price Sensitivity ☐ High Fuel Price Sensitivity
	☐ Base + Additional Large Load Customers ☐ High Load Growth (Economic, Electrification)	***These two Load Growth options will assume Base Fuel Prices***

Stakeholder Request

Please describe one assumptions you would like to change. Provide as much detail as possible including technology specification, hourly profiles, capacity factors, costs, etc. Please provide additional worksheets where necessary.

In the core modeling scenarios/sensitivities, long-duration energy storage resources must be included as candidates
Multi-day duration technologies, such as 100-hour iron-air storage, should be modeled as a candidate LDES resource
100-hour iron-air storage should be modeled with a commercial availability of 2027, in line with other IRPs such as PacifiCorp and
100-hour iron-air storage cost assumptions should be informed by Form Energy's provided cost inputs (submitted via email)
100-hour iron-air storage technology performance assumptions should be informed by Form Energy's provided specs (submitted
100-hour iron-air storage capacity accreditation should reflect the additional reliability of multi-day storage relative to 4-8 hour
Long-duration storage technologies should be modeled in PLEXOS using settings recommended by Form Energy (submitted via
Specifically, the chronology and look-ahead period in PLEXOS must enable LDES resources to shift energy across months and

Contact Information	***Please complete the following***
First and Last Name	Kailash Raman
Company	Form Energy
Email Address	kraman@formenergy.com
Phone Number	623-215-5170

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Due March 25th

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Model Assumptions — **Core Scenario: Least-Cost + REA**

Level 2

Future Gas Options

- ☒ No New Gas

Sensitivity Options for No New Gas

Load Growth	Fuel Prices
☐ 2024 Base Load + Large Load Customers	***All Load Growth Options for No New Future Gas will assume Base Fuel Prices***
☐ Base + Additional Large Load Customers	
☒ High Load Growth (Economic, Electrification)	

- ☒ New System Gas Converted to Carbon Free by 2045

Sensitivity Options for New Gas Conversion by 2045

Load Growth	Fuel Prices
☐ 2024 Base Load + Large Load Customers	☐ Base Fuel Prices ☐ Low Fuel Price Sensitivity ☐ High Fuel Price Sensitivity
☐ Base + Additional Large Load Customers	***These two Load Growth options will assume Base Fuel Prices***
☒ High Load Growth (Economic, Electrification)	

Stakeholder Request

Please describe one assumptions you would like to change. Provide as much detail as possible including technology specification, hourly profiles, capacity factors, costs, etc. Please provide additional worksheets where necessary.

The ~~addition~~ reduction of natural gas buidings by 6% in 2030 [relative to the 2018 baseline]. Assume a linear growth to a 75% reduction in 2050.

This is based on a City of Las Cruces goal. See Las Cruces Sustainability office for more information on this goal
Is there transmission capacity?

Contact Information	***Please complete the following***
First and Last Name	Randy Rankin
Company	Sustainable Engineering
Email Address	randy.rankin@sustainableeng.energy
Phone Number	575-649-1086

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Model Assumptions — **Core Scenario: Least-Cost + REA**

Level 2

Future Gas Options

- [x] No New Gas

Sensitivity Options for No New Gas

Load Growth	Fuel Prices
☐ 2024 Base Load + Large Load Customers	***All Load Growth Options for No New Future Gas will assume Base Fuel Prices***
☒ Base + Additional Large Load Customers	
☐ High Load Growth (Economic, Electrification)	

- [ ] New System Gas Converted to Carbon Free by 2045

Sensitivity Options for New Gas Conversion by 2045

Load Growth	Fuel Prices
☐ 2024 Base Load + Large Load Customers	☐ Base Fuel Prices ☐ Low Fuel Price Sensitivity ☐ High Fuel Price Sensitivity
☐ Base + Additional Large Load Customers	***These two Load Growth options will assume Base Fuel Prices***
☐ High Load Growth (Economic, Electrification)	

Stakeholder Request

Please describe one assumptions you would like to change. Provide as much detail as possible including technology specification, hourly profiles, capacity factors, costs, etc. Please provide additional worksheets where necessary.

Add existence of flexible loads, able to opportunistically utilize cheap excess power. Rationale is that it might shift the most cost-effective portfolio to one with more renewable (probably solar) resources. Examples of flexible loads might be hydrogen electrolyzers or bit coin mining or AI learning processing.

Contact Information	*Please complete the following*
First and Last Name	Phil Simpson
Company	N/A
Email Address	philipbsimpson@gmail.com
Phone Number	575-430-0064

Industrial Load - Data Center

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Model Assumptions — **Core Scenario: Least-Cost + REA**

Level 2

Future Gas Options

- [x] No New Gas

Sensitivity Options for No New Gas

Load Growth	Fuel Prices
[ ] 2024 Base Load + Large Load Customers	***All Load Growth Options for No New Future Gas will assume Base Fuel Prices***
[x] Base + Additional Large Load Customers	
[x] High Load Growth (Economic, Electrification)	

Future Gas Options

- [x] New System Gas Converted to Carbon Free by 2045

Sensitivity Options for New Gas Conversion by 2045

Load Growth	Fuel Prices
[ ] 2024 Base Load + Large Load Customers	[ ] Base Fuel Prices
	[ ] Low Fuel Price Sensitivity
	[ ] High Fuel Price Sensitivity
[x] Base + Additional Large Load Customers	***These two Load Growth options will assume Base Fuel Prices***
[x] High Load Growth (Economic, Electrification)	

Stakeholder Request

Please describe one assumptions you would like to change. Provide as much detail as possible including technology specification, hourly profiles, capacity factors, costs, etc. Please provide additional worksheets where necessary.

How would EPE meet the introduction of industrial added load (80MW, 150MW, 250MW) in the Las Cruces/NM region? Are there benefits/detriments to high load growth electrification for the entire customer base, (ie does the introduction of a data center inhibit electrification capacity or provide capacity for electrification)

Contact Information	***Please complete the following***
First and Last Name	Randy Rankin
Company	
Email Address	
Phone Number	

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DR = customer interruption details

Demand Response sensitivity

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Sensitivity Options for New Gas Conversion by 2045

	Load Growth	Fuel Prices
☐ New System Gas Converted to Carbon Free by 2045 Too speculative	☐ 2024 Base Load + Large Load Customers ☐ Base + Additional Large Load Customers ☐ High Load Growth (Economic, Electrification)	☐ Base Fuel Prices ☐ Low Fuel Price Sensitivity ☐ High Fuel Price Sensitivity ***These two Load Growth options will assume Base Fuel Prices***

Stakeholder Request

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~~Location~~ ~~Location of possible sensitivity~~ — at various levels
base ___ MW
med ___ MW
high ___ MW

Demand side management / All Rate Classes
TOD rates
Traditional DSM (Thermostats)
Behind the meter storage

Action plan ... pilot program to deploy at various levels esp on constrained feeders

High/medium/low
Implement cost / Total Capacity / Generation + T&D savings

Contact Information	Please complete the following
First and Last Name	Steve Fischmann
Company	
Email Address	
Phone Number	