

# San Juan Generating Station Update 2017

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Talk to us.



# OVERVIEW

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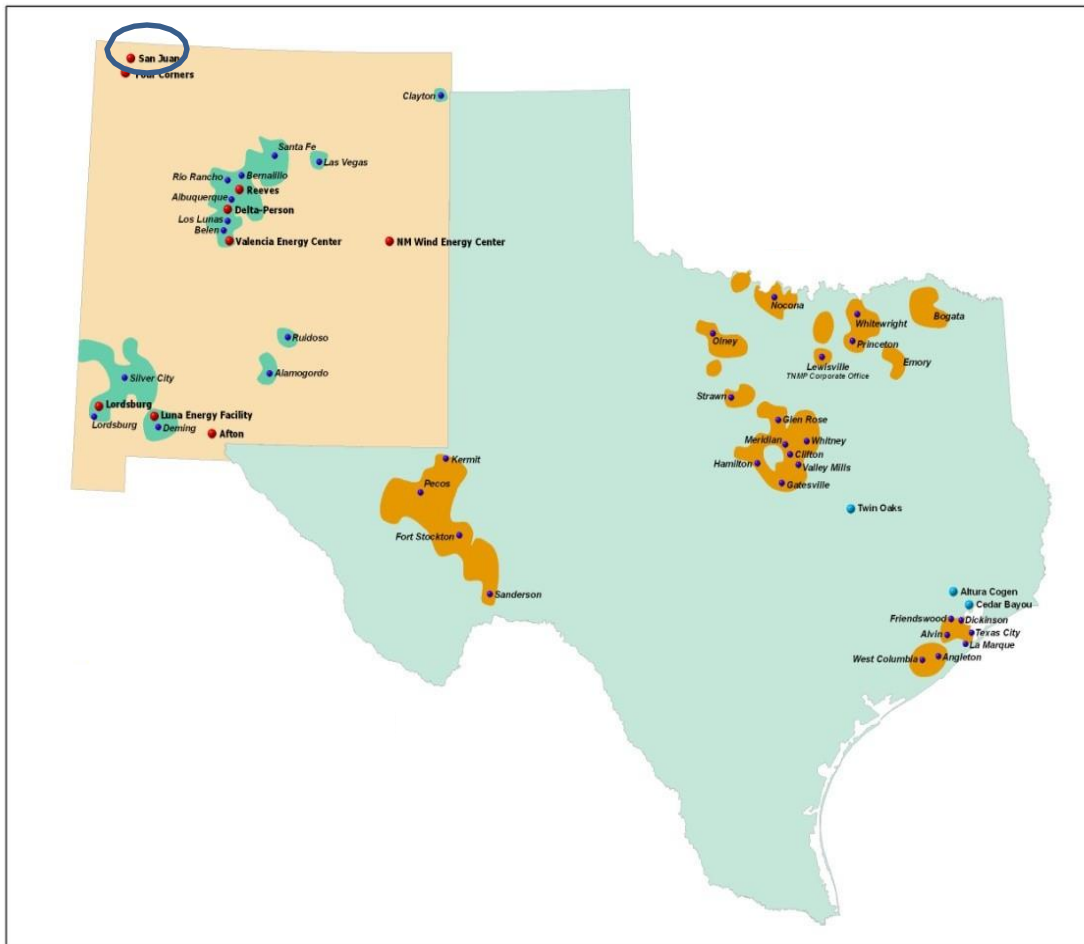
## SAN JUAN GENERATING STATION UPDATE

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- PNMR Profile
- Capacity Mix
- Annual Emissions
- San Juan Generating Station
  - Current
  - 2017 Changes
- What's Ahead

# PNMR PROFILE

## NM AND TX SERVICE TERRITORIES



- New Mexico
- More than 500,000 customers
- Fully integrated generation, transmission and distribution company
- San Juan Generating Station serves 2M customers in Southwest

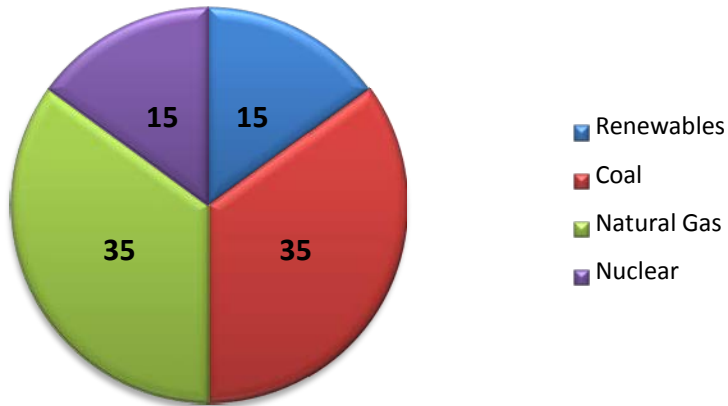


- Texas/ERCOT region
- About 235,000 end users
- Transmission and distribution company

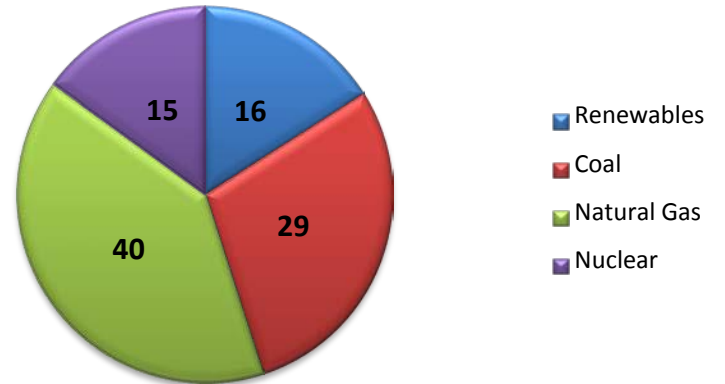
# RESOURCE MIX

## CAPACITY MIX

### Current Capacity Mix (% MW), 2015



### Forecasted Capacity Mix (% MW), 2018



# SAN JUAN GENERATING STATION

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## CURRENT STATE

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- San Juan Generating Station is a four unit coal-fired generator located west of Farmington, New Mexico.
- The plant has a net capacity of 1,674 megawatts:
  - Unit 1, 340 MW
  - Unit 2, 340 MW
  - Unit 3, 497 MW
  - Unit 4, 497 MW
  - The oldest unit (Unit 2) online in 1973, and the newest unit (Unit 4) online in 1982.

# SAN JUAN GENERATING STATION

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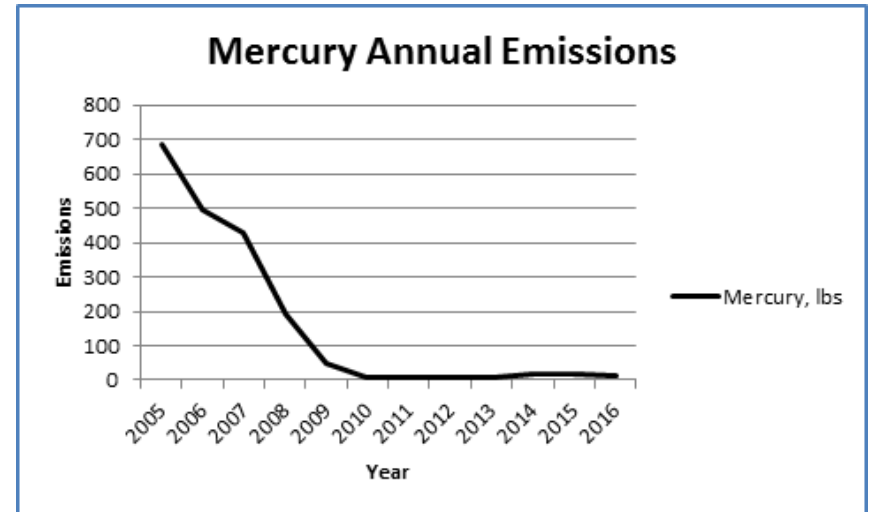
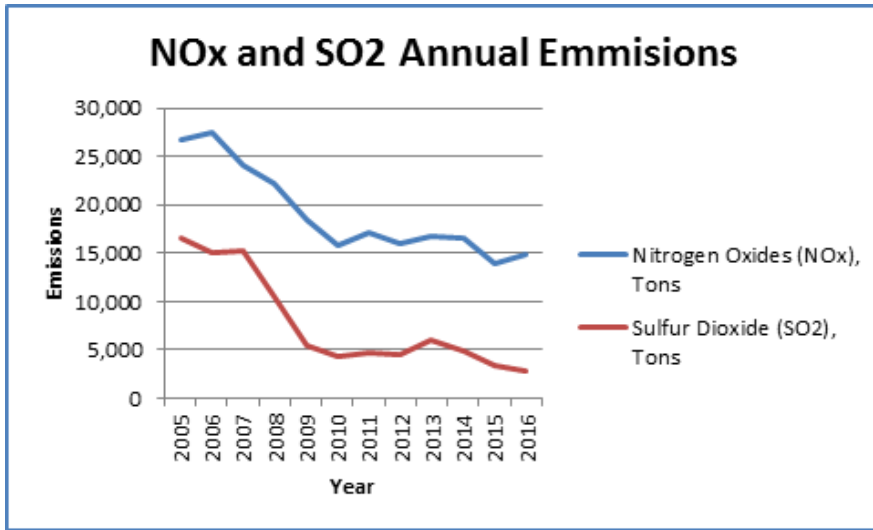
## REGIONAL HAZE

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- Consent Decree
  - Retire U2 & U3
    - Dec 31, 2017
  - Install SNCR U1 & U4
    - Completed Dec 2015

# ANNUAL EMISSIONS

## San Juan Generating Station: EMISSIONS 2005 - 2016



## SAN JUAN UNITS 2 & 3 RETIREMENT

### •2017 San Juan Units 2 and 3 Retirement

- Will reduce CO2 emissions by approximately 6 million metric tons per year
- Reduces PNM's carbon dioxide emissions system-wide by about 23%
- Operating & fuel supply agreements run until 2022

### SAN JUAN GENERATING STATION EMISSIONS REDUCTIONS (BASED UPON PERMIT LIMITS\*)

San Juan	NOx	SO <sub>2</sub>	Particulate Matter	Mercury	CO <sub>2</sub>
Emission Reductions after 2009 Environmental Pollution Control Upgrades	44% ↓	71% ↓	> 72% ↓	99% ↓	N/A
2012** Emissions (tons per year)	21,000	10,500	2,380	0.005	11,906,236
Emission Reductions from 2012 to 2018 Revised State Implementation Plan (2 unit shutdown/2 unit selective non-catalytic reduction)	62% ↓	67% ↓	50% ↓	50% ↓	47% ↓
Projected Emissions in 2018 (tons per year)	8,011	3,483	1,184	0.002	6,359,750

\* Mercury and CO<sub>2</sub> numbers are based upon actual emissions since there are currently no permit limits for these constituents.

\*\* 2012 chosen as base year to match the base year of EPA's Clean Power Plan for reduction of CO<sub>2</sub> emissions for fossil generation.



## WHAT'S AHEAD

# INTEGRATED RESOURCE PLAN (IRP)

- **PNM's 2017 – 2036 Integrated Resource Plan underway**
  - **Examines a 20-yr resource plan horizon- revisiting every 3 years**
  - **Analysis elements includes analyzing San Juan under two scenarios:**
    - **Continuation**
    - **Abandonment after current fuel supply agreement in 2022**
  - **Results – It is in the customers best interest to retire the remaining units in 2022**
  - **Filed with NM PRC for review & acceptance**
    - **July 3, 2017**
- For more information, go to [www.pnm.com/irp](http://www.pnm.com/irp)

# WHAT'S AHEAD

## REQUEST FOR PROPOSAL (RFP)

- **RFP in development**
  - **Evaluated Bid Process**
    - **Capital Cost**
    - **O&M Cost**
    - **Meet Daily load Profile**
    - **Filed with NM PRC for review & acceptance**
- **Schedule**
  - **Q3 2017 – RFP for new generation to replace SJGS in development**
  - **Q4 – Request for Bids**
  - **2018 – Receive and evaluate options**

# WHAT'S AHEAD

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## Technologies Being Considered

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- **Renewables**
- **Battery**
- **Gas Turbines**
- **Reciprocating Engines**
- **Combine Cycle (gas)**
- **Other Options**

# Thank you



Talk to us.

