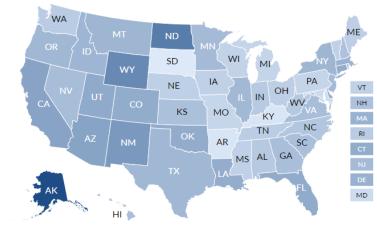
# Oil and Gas Revenue Volatility and Enhancing Fiscal Stability

Presentation to the Revenue Stabilization and Tax Policy Committee September 27, 2021

#### Revenue Volatility Differs Across States

- Each state relies on a unique mix of tax streams
- Underlying volatility often driven by factors outside of policymakers' control (e.g. economic factors, commodity prices, changes to federal policy, and unforeseen events)
- Between FY00-FY19, Pew found that severance taxes on oil and minerals and corporate income taxes were consistently more volatile than other major state taxes

Volatility scores based on FY 2000-19 collections, adjusted for tax policy changes



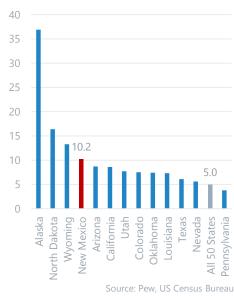
5.0 50-state volatility score for overall tax revenue

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### New Mexico's revenues are among the most volatile in the nation

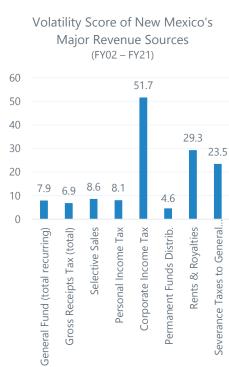
- Revenue volatility score mathematical representation of volatility across revenue sources
  - Calculated based on the standard deviation of the revenue's annual percent change
  - Higher scores = more volatile
- New Mexico's revenue volatility is the 4<sup>th</sup> highest in the nation, but less volatile than other oil-rich states like Alaska, North Dakota, and Wyoming
  - NM's revenue volatility score is more than double the national average





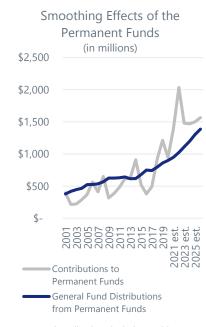
# Sources of NM Revenue Volatility

- Corporate income tax collections are most volatile, but make up a small portion of general fund revenues
- Federal royalty payments and severance taxes are the largest sources of general fund revenue volatility
- Permanent fund distributions are the least volatile source of general fund revenue



## Permanent Fund Distributions Enhance Fiscal Stability

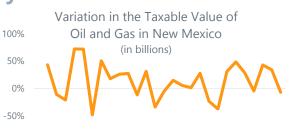
- Distributions from the land grant and severance tax permanent funds are one of the most stable and reliable revenue streams to the general fund
  - Royalties for oil and gas production on state lands flow to the land grant permanent fund
  - Severance tax collections not used for bonding flow to the severance tax permanent fund
- Distribution formula makes this revenue source easily predictable for the upcoming budget year
- Smooths fluctuations in market activity, largely insulating the general fund from sudden shocks
  - Severance tax and royalty collections experience large swings based on changes in prices and production
- Provides an intergenerational revenue streams that allows current resource extraction to benefit future New Mexicans



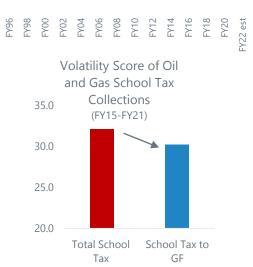
Note: Contributions include royalties from production on state lands and transfers from severance taxes in excess of bonding capacity

# Recent Additional Steps to Reduce Volatility

- Because severance taxes and royalties are the most volatile sources of general fund revenue, lawmakers enacted stabilization features in the 2017 and 2020 sessions
- 2017 legislation to send above-average oil and gas school tax revenue (the general fund's largest severance tax) to a budget stabilization fund beginning in FY19 is working to reduce general fund energy revenue volatility
  - Excess revenue flows into the tax stabilization fund ("rainy day fund") until reserves reach 25%, then to the early childhood trust fund
  - Measurable reduction in the volatility score of general fund oil and gas school tax collections
- 2020 legislation to send above-average federal royalty payments to the early childhood trust fund beginning in FY22 will further reduce general fund energy revenue volatility



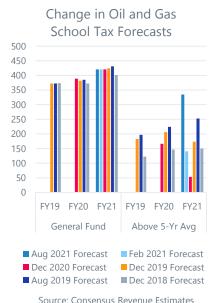
-100%



# Distributions of excess revenue partially insulates the general fund from market fluctuations...

- Changes in price forecasts and production estimates first affect expected distributions of above-average revenue, before affecting the general fund
- Despite large fluctuations in oil and gas prices and production, revenue estimators were able to project oil and gas school tax collections to the general fund with significantly less variability

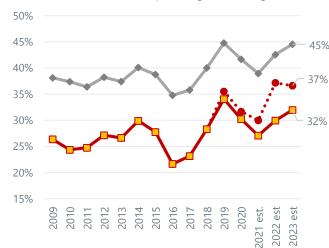




# ...And Reduces General Fund Dependence on Oil and Gas Inc Revenue General Fund Revenues Dependent on Oil and Gas Inc

- Oil and gas revenue dependence less than would be without distribution of windfall revenue
- However,
  dependence on oil
  and gas related
  revenues remains
  above historical
  averages due to
  historic production
  levels and elevated
  prices





Note: Includes severance taxes, federal royalty payments, and select GRT revenue. Note, oil and gas school tax revenue in excess of the five-year average is distributed to the tax stabilization reserve (TSR) or early childhood trust fund, and federal mineral leasing revenue above the five-year average distributed to the early childhood trust fund.

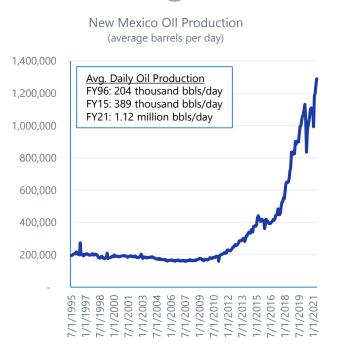
Percentage including permanent funds

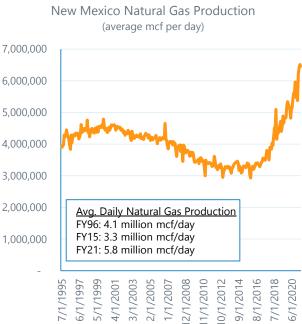
 Percentage if no TSR/ECE distribution of excess revenue were made

 Percentage excluding permanent funds & TSR/ECE distrib.

Source: LFC Consensus Revenue Brief, August 2021

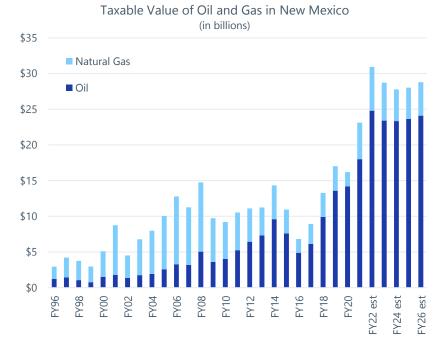
## New Mexico Oil and Gas Production is at an Alltime High...



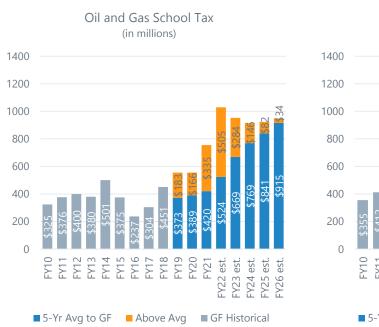


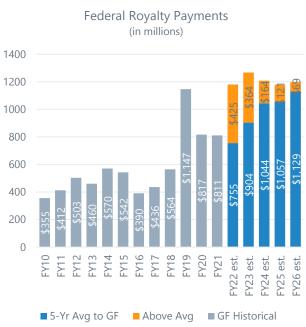
#### ...Leading to Record-High Production Value...

- Taxable value of oil and gas in FY21 was up 74% from FY18 and up over 110% from FY15
- FY22 taxable value projected to grow 34% due to high prices and recordbreaking production



#### ...And Record-High Expected Revenue Collections from Oil & Gas





# Benefits of Distributing Excess Oil and Gas Revenues to Budget Stabilization Funds

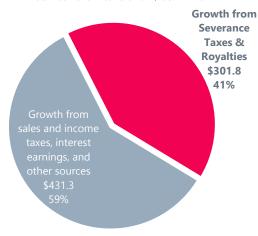
- Reduces general fund revenue volatility
- Reduces general fund revenue estimating uncertainty
- Mitigates market fluctuations and reduce general fund impacts
- Captures windfalls to save for future market crashes

# Exercising Caution when Growing Recurring Budgets

- While saving windfall revenue helps, general fund distributions of oil and gas revenues are still expected to increase in the short- to medium-term
  - About 40 percent of the year-overyear general fund revenue growth in FY23 is due to growth in severance taxes and federal royalty payments, even after accounting for distributions above the five-year average
- Expectations for high oil and gas revenue collections or continued increases may not be sustainable
  - Using oil and gas revenue growth to increase recurring budgets keeps general fund dependence on oil and gas high, and could make facing a future energy transition more difficult

#### FY23 General Fund Revenue Growth (growth from FY22, dollars in millions)

Total Year-Over-Year Growth: \$733.1 million



Source: August 2021 Consensus Revenue Estimate

# Benefits of Building (and Using) a State Rainy Day Fund

- Helps states avoid cutting state programs that people rely on during economic downturns
- Buys the state time, especially when economic outcomes are uncertain
- Preserves spending capacity during downturns and reduces need for tax increases or budget cuts
- Enhances state credit ratings

- Good rainy day fund design allows for deposits during periods of surplus, and withdrawals during period of decline
- New Mexico's rainy day fund design allows spending during revenue downturns
  - Prevented severe budget cuts during the depths of the Covid-19 pandemic and related oil market crash
  - Enabled spending for pandemic relief and economic stimulus in the 2021 session

## New Mexico Currently Engages in Multiple Rainy Day Fund Best Practices

#### Options for Rainy Day Fund Enhancement

- Establish formulas directing when and how reserves can be tapped
- Enact rules that require offsetting budget action in conjunction with rainy day fund withdrawals over certain amount
- Enact measures that reserve funds be repaid after being tapped
- Establish a reasonable and reliable schedule for replenishing rainy day funds after withdrawals
- Specify a revenue source or sources to provide money automatically for rainy day funds

- When the economy is expanding and revenues are surging, deposit any resulting surpluses into the rainy day fund
- Consider the volatility of tax revenues when calculating the adequacy of reserves
- Deposit excess cash into the rainy day fund when revenues exceed a predetermined amount
- Use data on historical revenue trends to help stock the rainy day fund
- Require a supermajority vote of the legislature if money is to be withdrawn for purposes other than an economic downturn, health or safety emergency, or unexpected revenue shortfall

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# Using Stress-Tests to Inform Reserve Targets

- Rainy day funds help the state prepare for oil and gas market shocks and economic downturns
- Reserve levels should be adequate, but also justifiable (stress-tests can inform this)
- Stress-testing of the general fund revenues shows the state, on average, needs:
  - About 20 percent of recurring appropriations is needed in reserves to withstand an oil price shock lasting the current fiscal year and budget year
  - During a prolonged price collapse, about 30 percent in reserves is needed to support budgets for the budget year and following fiscal year

Forecast	C	Current FY		Budget FY		Following FY		Total	
Aug 21 CREG	\$	(354)	\$	(1,024)	\$	(1,275)	\$	(2,653)	
Feb 21 CREG	\$	(378)	\$	(1,009)	\$	(1,255)	\$	(2,642)	
Dec 20 CREG	\$	(236)	\$	(473)	\$	(353)	\$	(1,062)	
Dec 19 CREG	\$	(365)	\$	(940)	\$	(1,160)	\$	(2,465)	
Aug 19 CREG	\$	(470)	\$	(1,205)	\$	(1,415)	\$	(3,090)	
Dec 18 CREG	\$	(475)	\$	(1,275)	\$	(1,350)	\$	(3,100)	
Aug 18 CREG	\$	(525)	\$	(1,250)	\$	(1,150)	\$	(2,925)	
Average	\$	(400)	\$	(1,025)	\$	(1,137)	\$	(2,562)	

Note: dollars in millions

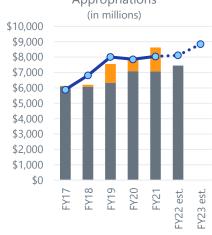
Low Oil Price Scenario Revenue Decline as a Percentage of Current Fiscal Year Recurring Appropriations							
Forecast	Current Fiscal Year	(	Current FY Approp.	Budget FY Only	Current FY & Budget FY	Budget FY & Following FY	Current FY, Budget FY, & Following FY
Aug 21 CREG	FY22	\$	7,449.9	14%	18%	31%	36%
Feb 21 CREG	FY21	\$	7,072.9	14%	20%	32%	37%
Dec 20 CREG	FY21	\$	7,072.9	7%	10%	12%	15%
Dec 19 CREG	FY20	\$	7,092.1	12%	18%	30%	35%
Aug 19 CREG	FY20	\$	7,092.1	15%	24%	37%	44%
Dec 18 CREG	FY19	\$	6,339.8	17%	28%	41%	49%
Aug 18 CREG	FY19	\$	6,339.8	17%	28%	38%	46%
			Average	14%	21%	31%	37%
			Sourc	e. Consensu	s Revenue Esti	mates IFC Po	st-Session Reports

Note: "Budget year" refers to the upcoming fiscal year budget that will be set in the next legislative session

# Balancing Reserves with State Needs

- In recent years, the state has been able to maintain adequate reserves and make a significant number of statewide investments
- In addition to building budget stabilization funds, policymakers used surplus revenues from FY19-FY21 to fund:
  - Instructional materials and educational system improvements
  - Educational endowment, scholarship, and loan repayment funds
  - Tribal infrastructure and educational programming needs
  - Roads and infrastructure projects
  - Economic development projects
  - Backfilling other state funds that were tapped in previous downturns
  - Pandemic relief and economic stimulus
- Given the August 2021 consensus revenues estimate, lawmakers will have a similar opportunity in the 2022 session

#### General Fund Revenue and Appropriations



GF Nonrecurring Appropriations

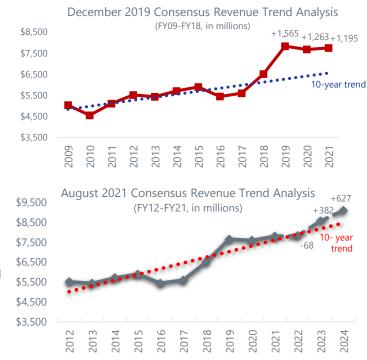
GF Recurring Appropriations

**─**GF Recurring Revenue

Fiscal Year	Nonrecurring Appropriations			
FY19	\$1.22 Billion			
FY20	\$833 Million			
FY21	\$1.56 Billion			

# Using Trend Analyses to Inform Budget-Making

- Trend analysis of the December 2019 revenue estimate showed projections were over \$1 billion above trend
  - Although recurring budgets for FY20 were increased by 12%, lawmakers exercised fiscal restraint by not allocating all of the projected revenue increase (18%) to recurring expenditures, using some of the additional revenue for one-time statewide investments
- Trend analysis of the August 2021 revenue estimate shows current projections are above-trend
  - However, if excess oil and gas school tax and federal royalty payments above the five-year average were not distributed to budget stabilization funds, the estimates would be even higher above trend



Note: Major revenue sources include sales taxes, income taxes, severance taxes, rents and royalties, and investment income.

## Summary of Practices that Enhance Fiscal Stability

- Using stress-testing to assure adequate and justifiable resources in reserve
  - Maintaining reserve levels to withstand a crash in some of the general fund's largest and most volatile sources of revenue
  - Using reserves during periods of economic or revenue decline
- Avoid committing short-term gains to long-term obligations
  - Distributing volatile and windfall revenues to budget stabilization funds
  - Using trend analyses to inform recurring budget growth

- Consider using general fund growth in oil and gas revenue for nonrecurring investments
  - Reduces general fund/recurring budget dependence on oil and gas revenue
  - Some options include:
    - Distributions into interest-earning accounts that redistribute to the general fund
    - Statewide nonrecurring expenditures to meet long-standing needs, support transformational change, or prepare for an energy transition

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#### Questions?