

# NATURAL GAS PRICING AND ITS FUTURE

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**How is natural gas futures priced?** Notes: Prices are based on delivery at the Henry Hub in Louisiana. Official daily closing prices at 2:30 p.m. from the trading floor of the New York Mercantile Exchange (NYMEX) for a specific delivery month.

**What will natural gas futures prices be in 2025?**

**Will gas prices be higher in the future?** Gas Overview According to our Gas price prediction, GAS price is expected to have a -12.73% decrease and drop as low as by September 05, 2024. Our analysis of the technical indicators suggests that the current market feeling is Bearish Bearish 61%, with a Fear & Greed Index score of 26 (Fear).

**Does natural gas have a future?** While it is a fossil fuel, it is much cleaner-burning than other fossil fuels, such as coal or oil. According to the U.S. Energy Information Administration (EIA), natural gas reserves in the United States are estimated to last about another 86 years if production and consumption levels remain consistent.

**What is the prediction for natural gas prices?** In its latest Natural Gas forecast, the US Energy Information Administration expects the U.S. benchmark Henry Hub natural gas spot price to increase throughout 2024 from its recent lows. The agency forecast the Henry Hub price to average less than \$2.00/MMBtu in 2Q24 and about \$2.20/MMBtu for all of 2024.

**What is the outlook for natural gas in 2024?** Natural gas prices increased across all key markets in the second quarter of 2024, reflecting tighter market fundamentals. For the full year of 2024, natural gas demand is forecast to increase by 2.5% in

2024, primarily driven by fast-growing Asian markets.

**How long will natural gas prices be high?** Natural gas prices are forecast to be significantly lower in 2024 compared to the previous two years, with a recovery anticipated in 2025. However, prices could be higher than projected due to geopolitical developments, reduced U.S. exports, and adverse weather conditions.

**Does natural gas rise or fall?** Natural gas is lighter than air, so it will rise and disperse if allowed to vent freely. Although rare, natural gas leaks can be dangerous and result in fire, explosions, injury or death. If you suspect a leak, call 1-800-ALLIANT (800-255-4268) immediately.

**How high will gas prices be in 2025?** U.S. gasoline prices are expected to average around \$3.40 a gallon in 2024 and \$3.20 in 2025, compared with around \$3.50 in 2023, according to the EIA's Short Term Energy Outlook report.

**What is the long term outlook for natural gas?** Gas will be the strongest-growing fossil fuel and will increase by 0.9 percent from 2020 to 2035. It is the only fossil fuel expected to grow beyond 2030, peaking in 2037. From 2035 to 2050, gas demand will decline by 0.4 percent.

**Will gas ever be 1 dollar again?** Will gas prices drop to \$1 per gallon ever again? - Quora. No because the costs involved in producing a gallon of gasoline, from purchasing the oil, refining, transporting to a retail site is more than \$1.

**What is the stock market forecast for natural gas?** Based on 4 Wall Street analysts offering 12 month price targets for Natural Gas Services Group in the last 3 months. The average price target is \$32.50 with a high forecast of \$40.00 and a low forecast of \$27.00. The average price target represents a 48.20% change from the last price of \$21.93.

**What will replace natural gas?** Renewable natural gas (RNG) is a pipeline-quality gas that is fully interchangeable with conventional natural gas and thus can be used in natural gas vehicles. RNG is essentially biogas (the gaseous product of the decomposition of organic matter) that has been processed to purity standards.

**Is natural gas being phased out?** As California moves to become the first state to ban natural gas-powered space and water heaters by 2030, a growing debate about

what the ban means for homeowners, and any potential expansion to other appliances, is kicking off.

**How many years of natural gas is left?** Conclusion: how long will fossil fuels last? It is predicted that we will run out of fossil fuels in this century. Oil can last up to 50 years, natural gas up to 53 years, and coal up to 114 years. Yet, renewable energy is not popular enough, so emptying our reserves can speed up.

**What is the price of natural gas in June 2024?** The average monthly price for natural gas in the United States amounted to 2.51 nominal U.S. dollars per million British thermal units (Btu) in June 2024.

**Should I invest in natural gas?** Are natural gas stocks a good long-term investment? According to the International Energy Agency (IEA), global demand for natural gas will continue to increase until a peak in 2030 and decline only slightly over the two decades after that.

**Is natural gas cheaper than electricity?** On average, natural gas is cheaper than electricity, so a gas furnace will save money on your bills. Electrical furnaces often run quieter than gas furnaces, as they have less mechanical parts used for the conversion of fuel to heat.

**What is the natural gas forecast for 2025?** We forecast U.S. natural gas production to average 103 Bcf/d in 2024, down slightly from 2023, and then increase to average of 105 Bcf/d in 2025.

**Should I lock in the natural gas rate?** The best time to lock in natural gas rates As people use more natural gas over high-demand seasons, market prices will rise. So, the best time to lock in natural gas rates is during low-demand months.

**What's the future of natural gas?** We forecast increases in natural gas prices as demand for natural gas grows faster than supply in 2024. In 2022 and 2023, increases in natural gas supply (domestic natural gas production and imports) exceeded the increases in natural gas demand (domestic consumption and exports).

**How are natural gas prices determined?** Natural gas prices are affected by market supply and demand Increases in natural gas supply generally result in lower natural gas prices, and decreases in supply tend to lead to higher prices. Increases in

demand generally lead to higher prices, and decreases in demand tend to lead to lower prices.

**What is the unit of measure for natural gas futures?** Larger amounts of natural gas are measured in therms, which equals 100 cubic feet. One MCF is equal to 1,000 cubic feet. Typically, 1 therm is equivalent to 100,000 British Thermal Units (BTUs). Each contract holds 10,000 MMBTU.

**Are gas prices based on futures?** Natural gas futures are the most widely used benchmark for the price of this commodity. Natural gas has multiple uses, and it's the primary energy source used for residential heating and cooking.

**What is the symbol for natural gas futures?**

## **Machakos County Bursary Application Form: Questions and Answers**

### **1. Who is eligible to apply for the Machakos County Bursary?**

- Students from Machakos County who are enrolled in primary, secondary, or tertiary institutions.
- Students from poor and vulnerable households with an annual income of less than Ksh. 1 million.
- Students who have performed well academically or have demonstrated financial need.

### **2. What documents are required with the application form?**

- Copy of the applicant's birth certificate
- Copy of the parent's/guardian's national ID
- School admission form and academic records
- Income declaration letter from the employer or a sworn affidavit confirming annual income
- Bank slip or M-Pesa transaction receipt for application fee (Ksh. 500)

### **3. How can I obtain the application form?**

- Download the form from the Machakos County Government website ([www.machakoscounty.go.ke](http://www.machakoscounty.go.ke)).
- Obtain the form from the County Education offices located in every sub-county.
- Request the form through the sub-county chief's office.

#### **4. What is the deadline for submitting the application?**

- The deadline for submitting the application form varies each year. Typically, the application period opens in August and closes in September.
- Check the official Machakos County Government website or contact the County Education offices for the current application period.

#### **5. Where should I submit the completed application form?**

- Submit the completed application form along with the required documents to the County Education office located in the sub-county where the applicant resides.
- Ensure that all sections of the form are filled out accurately and sign the form where necessary.

**What is a non-linear difference equation?** A non-linear differential equation is a differential equation that is not a linear equation in the unknown function and its derivatives (the linearity or non-linearity in the arguments of the function are not considered here).

**What is the difference equation in mathematical Modelling?** A difference equation is the discrete analogue of a differential equation, and it represents change in the case of discrete intervals. Difference equations are instrumental in modelling such time series because values of these variables can only be measured at discrete intervals, or it is more convenient to do so.

**What is linear vs nonlinear mathematical model?** It is nonlinear if it forms a curve when the function is plotted. In a linear function, the slope is always constant, because the slope of a straight line is always constant. In the equation  $y = m x + c$ ,

$m$  is the slope and the constant  $c$  is the  $y$ -intercept (the point where the line crosses the  $y$ -axis).

**What is the difference equation with an example?** A first-order difference equation only contains the first difference of a variable between two consecutive periods, like  $y(t + 1) - y(t)$ . A second-order difference equation also contains the second difference in a variable between every two successive time periods, like  $y(t + 2) - 2y(t + 1) + y(t)$ .

**What is an example of a nonlinear equation in real life?** For example, if you decided to have a pendant with radius 3 centimeters, then you can calculate the area by finding  $A(3)$ . We see that when the radius is 3 centimeters, the area of the pendant is approximately 28.27 square centimeters. This is a great example of using non-linear functions in the real world.

**What are the 3 methods in solving system of nonlinear equations?** These methods include: Newton's method, Broyden's method, and the Finite Difference method. where  $x_i - x$  (as  $i \rightarrow \infty$ ), and  $x$  is the approximation to a root of the function  $f(x)$ .

**What is the difference between mathematical model and mathematical modelling?** A mathematical model is an abstract description of a concrete system using mathematical concepts and language. The process of developing a mathematical model is termed mathematical modeling.

**What is the purpose of a difference equation?** An equation which expresses a value of a sequence as a function of the other terms in the sequence is called a difference equation. In particular, an equation which expresses the value  $a_n$  of a sequence  $\{a_n\}$  as a function of the term  $a_{n-1}$  is called a first-order difference equation.

**What does a difference equation look like?** Definition: First Order Difference Equation  $y(n+1)=y(n)+g(n,y(n))$ .  $y_{n+1}=f(n,y_n)$ .  $y_1=f(y_0), y_2=f(y_1)=f(f(y_0)), y_3=f(y_2)=f(f(f(y_0)))=f^3(y_0)$ .

**What is an example of a non-linear mathematical model?** For example, the model  $f(x, \theta) = \theta_1 + \theta_2 \exp(\theta_3 x)$  is nonlinear only with regards to the parameter  $\theta_3$ .

(3) Intrinsically linear models are nonlinear, but by using a correct transformation they can be transformed into linear regression models.

**What is a nonlinear equation?** A Nonlinear equation can be defined as the equation having the maximum degree 2 or more than 2. A linear equation forms a straight line on the graph. A nonlinear equation forms a curve on the graph.

**What is an example of nonlinear thinking?** In a board meeting, when several executives brainstorm about solving a problem, they pour out their ideas, the ideas of one person fuel the creativity of another person, and thus they arrive at a unanimous decision or conclusion, it is an example of non-linear thinking.

**What is difference equation in mathematical modeling?**  $\nabla f(x) = f(x + h) - f(x)$ . The expression  $f(x + h) - f(x)$  gives the first forward difference of  $y = f(x)$  and the operator  $\nabla$  is called the first forward difference operators. Given the step size  $h$ , this formula uses the values at  $x$  and  $x + h$ , the point at the next step.

**What are the applications of differential equations in real life?** Ordinary differential equations applications in real life are used to calculate the movement or flow of electricity, motion of an object to and fro like a pendulum, to explain thermodynamics concepts. Also, in medical terms, they are used to check the growth of diseases in graphical representation.

**What is the application of difference equation?** A difference equation is used to solve the values of an unknown function  $y(x)$  for different discrete values of  $x$ . We obtain a function  $y(x)$  such that it satisfies the equation for all values of  $x$ .

**What is a non-linear equation?** A Nonlinear equation can be defined as the equation having the maximum degree 2 or more than 2. A linear equation forms a straight line on the graph. A nonlinear equation forms a curve on the graph.

**What is a non-linear differential equation with an example?** The general form of a nonlinear differential equation is  $x_{n+1} = f(x_n, x_{n-1}, \dots)$ . A harmonic oscillator equation is an approximation of the nonlinear pendulum equation that is valid for oscillations of modest amplitude and is an example of non-linear differential equations.

**What is non-linear formula examples?**

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**What is the difference between linear and nonlinear diff equations?** Linear just means that the variable in an equation appears only with a power of one. So  $x$  is linear but  $x^2$  is non-linear. Also any function like  $\cos(x)$  is non-linear. In math and physics, linear generally means "simple" and non-linear means "complicated".

### **Slow Man: A Literary Exploration of Vulnerability and Mortality by J.M. Coetzee**

J.M. Coetzee's "Slow Man" is a poignant novel that delves into themes of vulnerability, mortality, and the search for meaning in life. The protagonist, Paul Rayment, is a middle-aged academic who finds himself marked by a mysterious disfigurement that gradually paralyzes his body.

### **What is the significance of Paul's physical decline?**

Paul's progressive paralysis serves as a metaphor for the inevitability of aging, decline, and death. Coetzee uses this physical transformation to explore the ways in which individuals confront their own mortality and the vulnerability that accompanies it. As Paul's body fails him, he is forced to confront the fragility of his existence and the prospect of his own end.

### **How does Paul's relationship with others change?**

As Paul's physical condition worsens, his interactions with others become increasingly strained. Friends and acquaintances distance themselves, unable to cope with his disfigurement and his growing dependence. However, through his encounters with a nurse named Marijana, Paul finds solace and a glimmer of hope. Marijana's compassion and acceptance challenge the social stigma surrounding disability and offer Paul a sense of belonging.

### **What is Paul's search for meaning?**

Throughout the novel, Paul grapples with existential questions about the purpose of life and the nature of consciousness. As his physical abilities diminish, he examines the role of suffering, memory, and the power of language. Coetzee suggests that meaning can be found in the present moment, in the connections we form with others, and in the pursuit of knowledge and understanding.



## How does the novel explore the concept of "slowness"?

"Slow Man" emphasizes the importance of slowing down and appreciating the present moment. Paul's enforced slowness allows him to observe the world around him with heightened sensitivity. Coetzee uses this theme to critique the fast-paced, consumerist society in which we live and encourages readers to reflect on the true nature of human existence.

## Conclusion

J.M. Coetzee's "Slow Man" is a profound and moving novel that invites us to confront our own mortality and to embrace our vulnerability. Through the journey of Paul Rayment, Coetzee challenges societal norms and explores the complex nature of human experience, ultimately offering hope and redemption in the face of adversity.

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