

CITIGROUP INC
Form 424B2
March 05, 2019

The information in this pricing supplement is not complete and may be changed. A registration statement relating to these securities has been filed with the Securities and Exchange Commission. This pricing supplement and the accompanying prospectus supplement and prospectus are not an offer to sell these securities, nor are they soliciting an offer to buy these securities, in any state where the offer or sale is not permitted.

SUBJECT TO COMPLETION, DATED MARCH 5, 2019

March-----, 2019

Medium-Term Senior Notes, Series N

Citigroup Global Markets Holdings Inc.

Pricing Supplement No. 2019—USNCH2085

Filed Pursuant to Rule 424(b)(2)

Registration Statement Nos. 333-216372 and 333-216372-01

Enhanced Barrier Digital Securities Linked to Brent Crude Oil Futures Due May 13, 2020

The securities offered by this pricing supplement are unsecured debt securities issued by Citigroup Global Markets Holdings Inc. and guaranteed by Citigroup Inc. Unlike conventional debt securities, the securities do not pay interest and do not repay a fixed amount of principal at maturity. Instead, the securities offer a payment at maturity that may be greater than or less than the stated principal amount, depending on the performance of the underlying specified below from the initial underlying value to the final underlying value.

The securities offer the potential for a digital (fixed) return at maturity so long as the final underlying value is not less than the final barrier value specified below. **However, if the final underlying value is less than the final barrier value, you will have full downside exposure to the negative performance of the underlying and will lose 1% of the stated principal amount of your securities for every 1% by which the final underlying value is less than the initial underlying value. There is no minimum payment at maturity.** In no event will investors in the securities participate in any appreciation of the underlying beyond the digital return provided by the securities.

In order to obtain the modified exposure to the underlying that the securities provide, investors must be willing to accept (i) an investment that may have limited or no liquidity and pays no interest and (ii) the risk of not receiving any amount due under the securities if we and Citigroup Inc. default on our obligations. **All payments on the securities are subject to the credit risk of Citigroup Global Markets Holdings Inc. and Citigroup Inc.**

KEY TERMS

Issuer:	Citigroup Global Markets Holdings Inc., a wholly owned subsidiary of Citigroup Inc.
Guarantee:	All payments due on the securities are fully and unconditionally guaranteed by Citigroup Inc.
Underlying:	The first nearby month futures contract for Brent crude oil (Bloomberg ticker: CO1) traded on ICE Futures

Europe or, on any day that falls on the last trading day of such contract (all pursuant to the rules of ICE Futures Europe), the second nearby month futures contract for Brent crude oil (Bloomberg ticker: CO2) traded on ICE Futures Europe

Stated principal amount: \$1,000 per security
Pricing date: March 8, 2019
Issue date: March 13, 2019
Final valuation dates: May 4, 5, 6, 7 and 8, 2020, each subject to postponement as described in this pricing supplement
Maturity date: May 13, 2020, subject to postponement as described in this pricing supplement
 For each \$1,000 stated principal amount security you hold at maturity, you will receive the following amount in U.S. dollars:

If the final underlying value is **greater than or equal to** the final barrier value: \$1,000 + digital return amount

If the final underlying value is **less than** the final barrier value: \$1,000 + (\$1,000 × underlying return)

Payment at maturity:

If the final underlying value is less than the final barrier value, you will have full downside exposure to the negative underlying return and your payment at maturity will be significantly less than the stated principal amount of your securities. You should not invest in the securities unless you are willing and able to bear the risk of losing a significant portion, and up to all, of your investment.

Initial underlying value: The underlying settlement price on the pricing date
Final underlying value: The arithmetic average of the underlying settlement prices on each of the five final valuation dates
Final barrier value: \$, 71% of the initial underlying value
Digital return amount: \$100.00 per security (representing a digital return equal to 10.00% of the stated principal amount)
Underlying return: (i) The final underlying value *minus* the initial underlying value, *divided by* (ii) the initial underlying value
 On any day, the official settlement price per barrel on ICE Futures Europe of the first nearby month futures contract for Brent crude oil (or if that day falls on the last trading day of such futures contract (all pursuant to the rules of ICE Futures Europe), then the second nearby month futures contract for Brent crude oil), stated in U.S. dollars, as made public by ICE Futures Europe and displayed on the Bloomberg Professional® service (“Bloomberg”) under the symbol “CO1” or “CO2,” as applicable (or on any successor page), on that day
Underlying settlement price: The securities will not be listed on any securities exchange
Listing:
CUSIP / ISIN: 17326YDR4 / US17326YDR45

Underwriter:	Citigroup Global Markets Inc. (“CGMI”), an affiliate of the issuer, acting as principal		
Underwriting fee and issue price:	Issue price⁽¹⁾⁽²⁾	Underwriting fee⁽³⁾	Proceeds to issuer
Per security:	\$1,000.00	\$10	\$990.00
Total:	\$	\$	\$

(1) Citigroup Global Markets Holdings Inc. currently expects that the estimated value of the securities on the pricing date will be at least \$960.00 per security, which will be less than the issue price. The estimated value of the securities is based on CGMI’s proprietary pricing models and our internal funding rate. It is not an indication of actual profit to CGMI or other of our affiliates, nor is it an indication of the price, if any, at which CGMI or any other person may be willing to buy the securities from you at any time after issuance. See “Valuation of the Securities” in this pricing supplement.

(2) The issue price for investors purchasing the securities in fiduciary accounts is \$990.00 per security.

(3) CGMI will receive an underwriting fee of \$10.00 for each security sold in this offering. J.P. Morgan Securities LLC and JPMorgan Chase Bank, N.A. will act as placement agents for the securities and, from the underwriting fee to CGMI, will receive a placement fee of \$10.00 for each security they sell in this offering to accounts other than fiduciary accounts. CGMI and the placement agents will forgo an underwriting fee and placement fee for sales to fiduciary accounts. For more information on the distribution of the securities, see “Supplemental Plan of Distribution” in this pricing supplement. In addition to the underwriting fee, CGMI and its affiliates may profit from expected hedging activity related to this offering, even if the value of the securities declines. See “Use of Proceeds and Hedging” in the accompanying prospectus.

Investing in the securities involves risks not associated with an investment in conventional debt securities. See “Summary Risk Factors” beginning on page PS-3.

Neither the Securities and Exchange Commission nor any state securities commission has approved or disapproved of the securities or determined that this pricing supplement and the accompanying prospectus supplement and prospectus is truthful or complete. Any representation to the contrary is a criminal offense.

You should read this pricing supplement together with the accompanying prospectus supplement and prospectus, each of which can be accessed via the following hyperlink: [Prospectus Supplement and Prospectus each dated April 7, 2017](#)

The securities are not futures contracts and are offered pursuant to an exemption from regulation under the Commodity Exchange Act. Accordingly, you are not afforded any protection provided by the Commodity Exchange Act or any regulation promulgated by the Commodity Futures Trading Commission. The securities are not bank deposits and are not insured or guaranteed by the Federal Deposit Insurance Corporation or any other governmental agency, nor are they obligations of, or guaranteed by, a bank.

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Hypothetical Examples

The diagram below illustrates your payment at maturity for a range of hypothetical underlying returns.

Enhanced Barrier Digital Securities Payment at Maturity Diagram n The Securities n The Underlying

The table below and the examples that follow illustrate various hypothetical payments at maturity on the securities assuming various hypothetical final underlying values. Your actual payment at maturity per security will depend on the actual final underlying value and may differ substantially from the examples shown. It is impossible to predict whether you will realize a gain or loss on your investment in the securities. Figures in the table and examples below have been rounded for ease of analysis.

The table and examples below assume a hypothetical initial underlying value of \$100.00 and a hypothetical final barrier value of \$71.00 and do not reflect the actual initial underlying value or final barrier value. For the actual initial underlying value and final barrier value, see the cover page of this pricing supplement. We have used these hypothetical values, rather than the actual values, to simplify the calculations and aid understanding of how the securities work. However, you should understand that the actual payments on the securities will be calculated based on the actual initial underlying value and final barrier value, and not the hypothetical values indicated below.

Hypothetical Final Underlying Value	Hypothetical Underlying Return	Hypothetical Payment at Maturity per Security	Hypothetical Total Return on Securities at Maturity ⁽¹⁾
\$200.00	100.00%	\$1,100.00	10.00%
\$190.00	90.00%	\$1,100.00	10.00%
\$180.00	80.00%	\$1,100.00	10.00%
\$170.00	70.00%	\$1,100.00	10.00%
\$160.00	60.00%	\$1,100.00	10.00%
\$150.00	50.00%	\$1,100.00	10.00%

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\$140.00	40.00%	\$1,100.00	10.00%
\$130.00	30.00%	\$1,100.00	10.00%
\$120.00	20.00%	\$1,100.00	10.00%
\$110.00	10.00%	\$1,100.00	10.00%
\$105.00	5.00%	\$1,100.00	10.00%
\$100.00	0.00%	\$1,100.00	10.00%
\$90.00	-10.00%	\$1,100.00	10.00%
\$80.00	-20.00%	\$1,100.00	10.00%
\$71.00	-29.00%	\$1,100.00	10.00%
\$70.99	-29.01%	\$709.90	-29.01%
\$60.00	-40.00%	\$600.00	-40.00%
\$50.00	-50.00%	\$500.00	-50.00%
\$40.00	-60.00%	\$400.00	-60.00%
\$30.00	-70.00%	\$300.00	-70.00%
\$20.00	-80.00%	\$200.00	-80.00%
\$10.00	-90.00%	\$100.00	-90.00%
\$0.00	-100.00%	\$0.00	-100.00%

⁽¹⁾ The hypothetical total return on securities at maturity is equal to (i) the hypothetical payment at maturity per security *minus* the \$1,000 stated principal amount per security, *divided by* (ii) the \$1,000 stated principal amount per security.

Example 1—Upside Scenario A. The hypothetical final underlying value is \$105.00 (an approximately 5.00% increase from the hypothetical initial underlying value), which is **greater than** the hypothetical final barrier value.

Payment at maturity per security = \$1,000 + digital return amount = \$1,100.00

In this scenario, because the underlying appreciated from the hypothetical initial underlying value to the hypothetical final underlying value, your total return at maturity would be equal to the digital return.

Example 2—Upside Scenario B. The hypothetical final underlying value is \$150.00 (a 50.00% increase from the hypothetical initial underlying value), which is **greater than** the hypothetical final barrier value.

Payment at maturity per security = \$1,000 + digital return amount = \$1,100.00

In this scenario, because the underlying appreciated from the hypothetical initial underlying value to the hypothetical final underlying value, your total return at maturity would be equal to the digital return. As this example illustrates,

your potential return on the securities will be limited to the digital return, even if the digital return is less than the underlying return.

Example 3—Upside Scenario C. The hypothetical final underlying value is \$95.00 (a 5.00% decrease from the hypothetical initial underlying value), which is **greater than** the hypothetical final barrier value.

Payment at maturity per security = \$1,000 + digital return amount = \$1,100.00

In this scenario, because the hypothetical final underlying value is greater than the hypothetical final barrier value, you would receive a total return at maturity equal to the digital return, even though the final underlying value is less than the initial underlying value.

Example 4—Downside Scenario. The hypothetical final underlying value is \$25.00 (a 75.00% decrease from the hypothetical initial underlying value), which is **less than** the hypothetical final barrier value.

Payment at maturity per security = \$1,000 + (\$1,000 × -75%)
= \$1,000 + -\$750
= \$250.00

Because the hypothetical final underlying value decreased from the hypothetical initial underlying value by more than 29.00%, your payment at maturity in this scenario would reflect 1-to-1 exposure to the negative performance of the underlying.

Summary Risk Factors

An investment in the securities is significantly riskier than an investment in conventional debt securities. The securities are subject to all of the risks associated with an investment in our conventional debt securities (guaranteed by Citigroup Inc.), including the risk that we and Citigroup Inc. may default on our obligations under the securities, and are also subject to risks associated with the underlying. Accordingly, the securities are suitable only for investors who are capable of understanding the complexities and risks of the securities. You should consult your own financial, tax and legal advisers as to the risks of an investment in the securities and the suitability of the securities in light of your particular circumstances.

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The following is a description of certain key risk factors for investors in the securities. You should read the risk factors below together with the risk factors included in the accompanying prospectus supplement and in the documents incorporated by reference in the accompanying prospectus, including Citigroup Inc.'s most recent Annual Report on Form 10-K and any subsequent Quarterly Reports on Form 10-Q, which describe risks relating to the business of Citigroup Inc. more generally.

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You may lose some or all of your investment. Unlike conventional debt securities, the securities do not repay a fixed amount of principal at maturity. Instead, your payment at maturity will depend on the performance of the underlying from the initial underlying value to the final underlying value. If the final underlying value is less than the final barrier value, you will lose 1% of the stated principal amount of the securities for every 1% by which the final underlying value is less than the initial underlying value. There is no minimum payment at maturity on the securities, and you may lose up to all of your investment.

The securities do not pay interest. Unlike conventional debt securities, the securities do not pay interest or any other amounts prior to maturity. You should not invest in the securities if you seek current income during the term of the securities.

Your potential return on the securities is limited. Your potential total return on the securities at maturity is limited to the digital return. The return on the underlying from the initial underlying value to the final underlying value may significantly exceed the digital return. Accordingly, your return on the securities may be significantly less than the performance of the underlying from the initial underlying value to the final underlying value.

The securities are subject to the credit risk of Citigroup Global Markets Holdings Inc. and Citigroup Inc. If we default on our obligations under the securities and Citigroup Inc. defaults on its guarantee obligations, you may not receive anything owed to you under the securities.

The securities will not be listed on any securities exchange and you may not be able to sell them prior to maturity. The securities will not be listed on any securities exchange. Therefore, there may be little or no secondary market for the securities. CGMI currently intends to make a secondary market in relation to the securities and to provide an indicative bid price for the securities on a daily basis. Any indicative bid price for the securities provided by CGMI will be determined in CGMI's sole discretion, taking into account prevailing market conditions and other relevant factors, and will not be a representation by CGMI that the securities can be sold at that price, or at all. CGMI may suspend or terminate making a market and providing indicative bid prices without notice, at any time and for any reason. If CGMI suspends or terminates making a market, there may be no secondary market at all for the securities because it is likely that CGMI will be the only broker-dealer that is willing to buy your securities prior to maturity. Accordingly, an investor must be prepared to hold the securities until maturity.

The estimated value of the securities on the pricing date, based on CGMI's proprietary pricing models and our internal funding rate, is less than the issue price. The difference is attributable to certain costs associated with selling, structuring and hedging the securities that are included in the issue price. These costs include (i) the placement fees paid in connection with the offering of the securities, (ii) hedging and other costs incurred by us and our affiliates in connection with the offering of the securities and (iii) the expected profit (which may be more or less than actual profit) to CGMI or other of our affiliates in connection with hedging our obligations under the securities. These costs adversely affect the economic terms of the securities because, if they were lower, the economic terms of the securities would be more favorable to you. The economic terms of the securities are also likely to be adversely affected by the use of our internal funding rate, rather than our secondary market rate, to price the securities. See "The estimated value of the securities would be lower if it were calculated based on our secondary market rate" below.

The estimated value of the securities was determined for us by our affiliate using proprietary pricing models.

CGMI derived the estimated value disclosed on the cover page of this pricing supplement from its proprietary pricing models. In doing so, it may have made discretionary judgments about the inputs to its models, such as the volatility of the underlying and interest rates. CGMI's views on these inputs may differ from your or others' views, and as an underwriter in this offering, CGMI's interests may conflict with yours. Both the models and the inputs to the models may prove to be wrong and therefore not an accurate reflection of the value of the securities. Moreover, the estimated value of the securities set forth on the cover page of this pricing supplement may differ from the value that we or our affiliates may determine for the securities for other purposes, including for accounting purposes. You should not invest in the securities because of the estimated value of the securities. Instead, you should be willing to hold the securities to maturity irrespective of the initial estimated value.

The estimated value of the securities would be lower if it were calculated based on our secondary market rate.

The estimated value of the securities included in this pricing supplement is calculated based on our internal funding rate, which is the rate at which we are willing to borrow funds through the issuance of the securities. Our internal funding rate is generally lower than our secondary market rate, which is the rate that CGMI will use in determining the value of the securities for purposes of any purchases of the securities from you in the secondary market. If the estimated value included in this pricing supplement were based on our secondary market rate, rather than our internal funding rate, it would likely be lower. We determine our internal funding rate based on factors such as the costs associated with the securities, which are generally higher than the costs associated with conventional debt securities, and our liquidity needs and preferences. Our internal funding rate is not an interest rate that is payable on the securities.

Because there is not an active market for traded instruments referencing our outstanding debt obligations, CGMI determines our secondary market rate based on the market price of traded instruments referencing the debt obligations of Citigroup Inc., our parent company and the guarantor of all payments due on the securities, but subject to adjustments that CGMI makes in its sole discretion. As a result, our secondary market rate is not a market-determined measure of our creditworthiness, but rather reflects the market's perception of our parent company's creditworthiness as adjusted for discretionary factors such as CGMI's preferences with respect to purchasing the securities prior to maturity.

The estimated value of the securities is not an indication of the price, if any, at which CGMI or any other person may be willing to buy the securities from you in the secondary market. Any such secondary market price will fluctuate over the term of the securities based on the market and other factors described in the next risk factor. Moreover, unlike the estimated value included in this pricing supplement, any value of the securities determined for purposes of a secondary market transaction will be based on our secondary market rate, which will likely result in a lower value for the securities than if our internal funding rate were used. In addition, any secondary market price for the securities will be reduced by a bid-ask spread, which may vary depending on the aggregate stated

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principal amount of the securities to be purchased in the secondary market transaction, and the expected cost of unwinding related hedging transactions. As a result, it is likely that any secondary market price for the securities will be less than the issue price.

The value of your securities prior to maturity will fluctuate based on many unpredictable factors. Prior to maturity, the value of your securities will fluctuate based on the underlying settlement price at that time and a number of other factors, including those described below. Some of these factors are interrelated in complex ways. As a result, the effect of any one factor may be offset or magnified by the effect of one or more other factors. The paragraphs below describe what we expect to be the impact on the value of the securities of a change in a specific factor, assuming all other conditions remain constant. You should understand that the value of your securities at any time prior to maturity may be significantly less than the issue price.

Underlying settlement price. We expect that the value of the securities at any time prior to maturity will depend substantially on the underlying settlement price at that time. If the underlying settlement price decreases following the pricing date, the value of your securities will also likely decline, perhaps significantly. Even at a time when the § underlying settlement price is greater than the final barrier value, the value of your securities may nevertheless be significantly less than the stated principal amount of your securities because of expectations that the underlying settlement price will continue to fluctuate over the term of the securities, among other reasons.

Volatility of the underlying settlement price. Volatility refers to the magnitude and frequency of changes in the § underlying settlement price over any given period. Any increase in the expected volatility of the underlying settlement price may adversely affect the value of the securities.

Interest rates. We expect that the value of the securities will be affected by changes in U.S. interest rates. In general, § an increase in U.S. interest rates is likely to adversely affect the value of the securities.

Time remaining to maturity. At any given time, the value of the securities may reflect a discount based on the § amount of time then remaining to maturity, which will reflect uncertainty about the change in the underlying settlement price over that period.

§ *Creditworthiness of Citigroup Global Markets Holdings Inc. and Citigroup Inc.* The securities are subject to the credit risk of Citigroup Global Markets Holdings Inc. and Citigroup Inc. Therefore, actual or anticipated adverse changes in the creditworthiness of either entity may adversely affect the value of the securities.

It is important for you to understand that the impact of one of the factors discussed above may offset, or magnify, some or all of any change in the value of the securities attributable to one or more of the other factors.

Immediately following issuance, any secondary market bid price provided by CGMI, and the value that will be indicated on any brokerage account statements prepared by CGMI or its affiliates, will reflect a temporary upward adjustment. The amount of this temporary upward adjustment will steadily decline to zero over the temporary adjustment period. See “Valuation of the Securities” in this pricing supplement.

If a commodity hedging disruption event occurs during the term of the securities, we may redeem the securities early for an amount that may result in a significant loss on your investment. See “Additional Terms of the Securities—Commodity Hedging Disruption Event” in this pricing supplement for information about the events that may constitute a commodity hedging disruption event. If a commodity hedging disruption event occurs, we may redeem the securities prior to the maturity date for an amount equal to the early redemption amount determined as of the early redemption valuation date. The early redemption amount will be determined in a manner based upon (but not necessarily identical to) CGMI’s then contemporaneous practices for determining secondary market bid prices for the securities and similar instruments, subject to the exceptions and more detailed provisions set forth under “Additional Terms of the Securities—Commodity Hedging Disruption Event” below. As discussed above, any secondary market bid price is likely to be less than the issue price and, absent favorable changes in market conditions and other relevant factors, is also likely to be less than the estimated value of the securities set forth on the cover page of this pricing supplement. Accordingly, if a commodity hedging disruption event occurs, there is a significant likelihood that the early redemption amount you receive will result in a loss on your investment in the securities. Moreover, in determining the early redemption amount, the calculation agent will take into account the relevant event that has occurred, and that event may have a significant adverse effect on the underlying commodity markets and/or commodity markets generally, resulting in an early redemption amount that is significantly less than the amount you paid for your securities. You may lose up to all of your investment.

The early redemption amount may be significantly less than the amount you would have received had we not elected to redeem the securities and had you been able instead to hold them to maturity. For example, the early redemption amount may be determined during a market disruption that has a significant adverse effect on the early redemption amount. That market disruption may be resolved by the time of the originally scheduled maturity date and, had your payment on the securities been determined on the scheduled final valuation dates rather than on the early redemption valuation date, you might have achieved a significantly better return.

The calculation agent may make discretionary determinations in connection with a commodity hedging disruption event and the early redemption amount that could adversely affect your return upon early redemption. The calculation agent will be required to exercise discretion in determining whether a commodity hedging disruption event has occurred. If the calculation agent determines that a commodity hedging disruption event has occurred and as a result we elect to redeem the securities upon the occurrence of a commodity hedging disruption event, you may incur a significant loss on your investment in the securities.

In addition, the calculation agent has broad discretion to determine the early redemption amount, including the ability to make adjustments to proprietary pricing models and inputs to those models in good faith and in a commercially reasonable manner. The fact that the calculation agent is our affiliate may cause it to have interests that are adverse to yours as a holder of the securities. Under the

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terms of the securities, the calculation agent has the authority to make determinations that may protect our economic interests while resulting in a significant loss to you on your investment in the securities.

The securities provide exposure to Brent crude oil futures and not direct exposure to crude oil. The price of a crude oil futures contract reflects the expected value of crude oil upon delivery in the future, whereas the spot price of crude oil reflects the immediate delivery value of crude oil. A variety of factors can lead to a disparity between the expected future price of crude oil and the spot price at a given point in time, such as the cost of storing crude oil for the term of the futures contract, interest charges incurred to finance the purchase of crude oil and expectations concerning supply and demand for crude oil. The price movement of a futures contract is typically correlated with the movements of the spot price of the reference commodity, but the correlation is generally imperfect and price movements of the spot price may not be reflected in the futures market (and vice versa).

In addition, the difference between a futures price and a spot price is typically greater the longer the remaining term of the futures contract (in other words, futures prices converge toward spot prices as the expiration of the futures contract nears). As a result, the underlying settlement price on the final valuation dates will be influenced in part by how much time remains to expiration of the Brent crude oil futures on the final valuation dates. Had the final valuation dates occurred with a different length of time remaining to expiration of the Brent crude oil futures, your return on the securities might have been more favorable.

Investments linked to commodities are subject to sharp fluctuations in settlement prices. Investments, such as the securities, linked to the prices of commodities are subject to sharp fluctuations in the prices of commodities and commodity futures over short periods of time for a variety of reasons, including: changes in supply and demand relationships; weather; climatic events; the occurrence of natural disasters; wars; political and civil upheavals; acts of terrorism; trade, fiscal, monetary, and exchange control programs; domestic and foreign political and economic events and policies; disease; pestilence; technological developments; changes in interest rates; and trading activities in commodities and commodity futures. These factors may affect the underlying settlement price and the value of the securities in varying and potentially inconsistent ways. As a result of these or other factors, the underlying settlement prices may be, and recently have been, highly volatile.

Single commodity prices tend to be more volatile than, and may not correlate with, the prices of commodities generally. The securities are not linked to a diverse basket of commodities or a broad-based commodity index. Instead, the securities are linked to Brent crude oil futures. The underlying settlement price may not correlate to the price of commodities generally and may diverge significantly from the prices of commodities generally. Because the securities are linked solely to Brent crude oil futures, they carry greater risk and may be more volatile than securities linked to the prices of a larger number of commodities or a broad-based commodity index.

The market price of Brent crude oil futures will affect the value of the securities. The price of Brent crude oil futures is primarily affected by the demand for and supply of Brent crude oil, but is also influenced significantly from time to time by speculative actions and by currency exchange rates. Crude oil prices are generally highly volatile and subject to dislocation. Demand for refined petroleum products by consumers, as well as the agricultural, manufacturing and transportation industries, affects the price of crude oil. Crude oil's end-use as a refined product is

often as transport fuel, industrial fuel and in-home heating fuel. Potential for substitution in most areas exists. Because the precursors of demand for petroleum products are linked to economic activity, demand will tend to reflect economic conditions. Demand is also influenced by government regulations, such as environmental or consumption policies. In addition to general economic activity and demand, prices for crude oil are affected by political events, labor activity and, in particular, direct government intervention (such as embargos) or supply disruptions in major oil-producing regions of the world. Such events tend to affect oil prices worldwide, regardless of the location of the event. Supply for crude oil may increase or decrease depending on many factors. These include production decisions by OPEC and other crude oil producers. Crude oil prices are determined with significant influence by OPEC. OPEC has the potential to influence oil prices worldwide because its members possess a significant portion of the world's oil supply. In the event of sudden disruptions in the supplies of oil, such as those caused by war, natural events, accidents or acts of terrorism, prices of oil futures contracts could become extremely volatile and unpredictable. Also, sudden and dramatic changes in the futures market may occur, for example, upon a cessation of hostilities that may exist in countries producing oil, the introduction of new or previously withheld supplies into the market or the introduction of substitute products or commodities. Brent crude oil prices may also be affected by short-term changes in supply and demand because of trading activities in the oil market and seasonality (e.g., weather conditions such as hurricanes). It is not possible to predict the aggregate effect of all or any combination of these factors.

Brent crude oil futures prices differ from other benchmark measures of crude oil prices. In particular, the Brent crude oil futures prices referenced by the securities differ from NYMEX light sweet crude oil futures. Brent crude oil futures may be more indicative of European and Asian crude oil prices, while NYMEX light sweet crude oil futures may be more indicative of the North American market for crude oil. Events and circumstances specific to the market for Brent crude oil may have a negative impact on Brent crude oil futures without necessarily having a significant effect on NYMEX light sweet crude oil futures prices. The performance of Brent crude oil futures over the term of the securities may differ significantly from, and may be significantly less favorable than, the performance of NYMEX light sweet crude oil futures.

Futures contracts on Brent crude oil are the benchmark crude oil contracts in European and Asian markets and may be affected by economic conditions in Europe and Asia. Because futures contracts on Brent crude oil are the benchmark crude oil contracts in European and Asian markets, they will be affected by economic conditions in Europe and Asia. A decline in economic activity in Europe or Asia could result in decreased demand for crude oil and for futures contracts on crude oil, which could adversely affect the underlying settlement price and, therefore, the securities.

There are risks relating to the underlying settlement price being determined by ICE Futures Europe. Futures contracts on Brent crude oil are traded on ICE Futures Europe. The underlying settlement price will be determined by reference to the official settlement price per barrel on ICE Futures Europe of the first nearby month futures contract for Brent crude oil (or, in some circumstances, the

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second nearby month futures contract for Brent crude oil), stated in U.S. dollars, as made public by ICE Futures Europe and displayed on the applicable Bloomberg page. Investments in securities linked to the value of commodity futures contracts that are traded on non-U.S. exchanges, such as ICE Futures Europe, involve risks associated with the markets in foreign countries, including risks of volatility in those markets and governmental intervention in those markets.

A decision by ICE Futures Europe to increase margin requirements for Brent crude oil futures contracts may affect the underlying settlement price. If ICE Futures Europe increases the amount of collateral required to be posted to hold positions in the futures contracts on Brent crude oil (i.e., the margin requirements), market participants who are unwilling or unable to post additional collateral may liquidate their positions, which may cause the underlying settlement price to decline significantly.

Changes in exchange methodology may affect the value of your securities. The underlying settlement price will be determined by reference to the price determined by ICE Futures Europe. ICE Futures Europe may from time to time change any rule or bylaw or take emergency action under its rules, any of which could adversely affect the underlying settlement price and, in turn, your investment in the securities.

Legal and regulatory changes could adversely affect the return on and value of the securities. Commodity futures contracts are subject to legal and regulatory regimes in the United States and, in some cases, in other countries that may change in ways that could adversely affect the underlying settlement price. Any future regulatory changes, including but not limited to changes resulting from the Dodd-Frank Wall Street Reform and Consumer Protection Act (the “Dodd-Frank Act”), may have a substantial adverse effect on the value of your securities. Additionally, under authority provided by the Dodd-Frank Act, the U.S. Commodity Futures Trading Commission on December 5, 2016 proposed rules to establish position limits that will apply to 25 agricultural, metals and energy futures contracts and futures, options and swaps that are economically equivalent to those futures contracts. The limits would apply to a person’s combined position in futures, options, and swaps on the same underlying commodity. The rules, if enacted in their proposed form, may reduce liquidity in the exchange-traded market for those commodity-based futures contracts, which may, in turn, have an adverse effect on your payment at maturity.

Holders of the securities will not benefit from regulatory protections of the Commodity Futures Trading Commission. The securities are our direct obligations. The net proceeds to be received by us from the sale of the securities will not be used to purchase or sell the underlying for the benefit of the holders of securities. An investment in the securities does not constitute an investment in, and holders of the securities will not benefit from the regulatory protections of the Commodity Futures Trading Commission (the “CFTC”) afforded to persons who trade in such contracts.

Investing in the securities is not equivalent to investing in Brent crude oil futures. The return on the securities will not reflect the return you would realize if you actually owned Brent crude oil futures. You will not have any entitlement to crude oil by virtue of your investment in the securities.

Distortions or disruptions of market trading in Brent crude oil futures could adversely affect the value of and return on the securities. The commodity markets are subject to temporary distortions or other disruptions due to various factors, including the lack of liquidity in the markets, the participation of speculators and government regulation and intervention. These circumstances could adversely affect the underlying settlement price and, therefore, the value of and return on the securities. In addition, if a scheduled final valuation date is not a scheduled trading day or is a disrupted day, that final valuation date will be subject to postponement, as described under “Additional Terms of the Securities” in this pricing supplement. If a final valuation date is a disrupted day and it is not postponed, the calculation agent will determine the underlying settlement price on that final valuation date in its discretion. The calculation agent’s determination of the underlying settlement price in this circumstance may result in an unfavorable return on the securities.

The payment at maturity on the securities is based on the arithmetic average of the underlying settlement price on the five final valuation dates. As a result, you are subject to the risk that the underlying settlement price on those five final valuation dates will result in a less favorable return than you would have received had the final underlying value been based on the underlying settlement price on other days during the term of the securities. If you had invested directly in the underlying, or in another instrument linked to the underlying that you could liquidate for full value at a time selected by you, you might have achieved better returns. In addition, because the final underlying value is based on the average over the five final valuation dates, your return on the securities may be less favorable than it would have been if it were based on the underlying settlement price on only one of those five final valuation dates.

The calculation agent, which is an affiliate of the issuer, will make important determinations with respect to the securities. CGMI, the calculation agent for the securities, is an affiliate of ours and will determine the underlying settlement price on the final valuation dates and the amount owed to you at maturity. In addition, in certain circumstances CGMI may be required to exercise judgments in its capacity as calculation agent. Such judgments could include, among other things:

- determining whether a scheduled final valuation date is a disrupted day or whether a commodity hedging disruption event has occurred;

- if a scheduled final valuation date is a disrupted day, determining whether to postpone that scheduled final valuation date;

- if a scheduled final valuation date is a disrupted day and it is not postponed, determining the underlying settlement price on that day;

- if a commodity hedging disruption event occurs, determining the early redemption amount;

- if the relevant exchange discontinues trading in the underlying, selecting a successor underlying;

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if the relevant exchange discontinues trading in the underlying or if the method of calculating the underlying settlement price is changed in a material respect, determining the underlying settlement price on the final valuation dates.

Any of these determinations made by CGMI, in its capacity as calculation agent, may adversely affect your return on the securities.

The offering of the securities does not constitute a recommendation of the underlying by CGMI or its affiliates or by the placement agents or their affiliates. You should not take the offering of the securities as an expression of our views or the views of the placement agents or our or their respective affiliates regarding how the underlying will perform in the future or as a recommendation to invest in the underlying, including through an investment in the securities. As we and the placement agents are part of global financial institutions, our and their affiliates may, and often do, have positions that conflict with an investment in the securities, including short positions with respect to the underlying. You should undertake an independent determination of whether an investment in the securities is suitable for you in light of your specific investment objectives and financial resources.

Our affiliates or the placement agents or their affiliates may have published research, expressed opinions or provided recommendations that are inconsistent with investing in the securities and may do so in the future, and any such research, opinions or recommendations could adversely affect the underlying settlement price. CGMI and other of our affiliates or the placement agents or their affiliates may publish research from time to time relating to the underlying. Any research, opinions or recommendations provided by CGMI and other of our affiliates or the placement agents or their affiliates may influence the underlying settlement price, and they may be inconsistent with purchasing or holding the securities. CGMI and other of our affiliates or the placement agents or their affiliates may have published or may publish research or other opinions that call into question the investment view implicit in an investment in the securities. Investors should make their own independent investigation of the underlying and the merits of investing in the securities.

Hedging and trading activity by our affiliates could potentially affect the value of the securities. We expect to hedge our obligations under the securities through CGMI or other of our affiliates, who in turn will likely take positions in the underlying or financial instruments related to the underlying. Our affiliates and the placement agents and/or their affiliates also trade the underlying and financial instruments related to the underlying on a regular basis as part of their general trading and other businesses. Any of these hedging or trading activities at or prior to the pricing date could increase the value of the underlying at the time of your initial investment and, as a result, the value that the underlying must attain on the final valuation dates before you would receive a positive return at maturity on the securities. Additionally, such hedging or trading activities on or near the final valuation dates could potentially affect the underlying settlement price on the final valuation dates and, therefore, adversely affect your payment at maturity.

The U.S. federal tax consequences of an investment in the securities are uncertain. There is no direct legal authority regarding the proper U.S. federal tax treatment of the securities, and we do not plan to request a ruling from the Internal Revenue Service (the “IRS”). Consequently, significant aspects of the tax treatment of the securities are uncertain, and the IRS or a court might not agree with the treatment of the securities as prepaid forward contracts. If the IRS were successful in asserting an alternative treatment for the securities, the tax consequences of ownership and

disposition of the securities might be materially and adversely affected. As described below under “United States Federal Tax Considerations,” the U.S. Treasury Department and the IRS have requested comments on various issues regarding the U.S. federal income tax treatment of “prepaid forward contracts” and similar financial instruments and have indicated that such transactions may be the subject of future regulations or other guidance. In addition, members of Congress have proposed legislative changes to the tax treatment of derivative contracts. Any legislation, Treasury regulations or other guidance promulgated after consideration of these issues could materially and adversely affect the tax consequences of an investment in the securities, possibly with retroactive effect. You should review carefully the section of this pricing supplement entitled “United States Federal Tax Considerations.” You should also consult your tax adviser regarding the U.S. federal tax consequences of an investment in the securities, as well as tax consequences arising under the laws of any state, local or non-U.S. taxing jurisdiction.

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Information About Brent Crude Oil Futures

Brent crude oil futures contracts trade on ICE Futures Europe. The “underlying settlement price” on any day is the official settlement price per barrel on ICE Futures Europe of the first nearby month futures contract for Brent crude oil (or if that day falls on the last trading day of such futures contract (all pursuant to the rules of ICE Futures Europe), then the second nearby month futures contract for Brent crude oil), stated in U.S. dollars, as made public by ICE Futures Europe and displayed on the Bloomberg Professional® service (“Bloomberg”) under the symbol “CO1” or “CO2,” as applicable (or on any successor page), on that day.

ICE Futures Europe is a London-based futures exchange, offering benchmark energy and emissions futures and options contracts cleared by ICE Clear Europe. ICE Futures Europe is supervised by the U.K. Financial Conduct Authority.

The Brent crude oil futures contract represents the right to receive a future delivery of 1,000 net barrels of Brent blend crude oil per unit and is quoted at a price that represents one barrel of Brent blend crude oil. The delivery point of crude oil underlying the contract is Sullom Voe, Scotland. The Brent crude oil futures contract is a deliverable contract based on an Exchange of Futures for Physical (“EFP”) delivery mechanism with an option to cash settle. This mechanism enables companies to take delivery of physical crude supplies through EFP or, alternatively and more commonly, open positions that can be cash settled at expiration against a physical price index. Trading in a given futures contract will cease at the end of the designated settlement period on the last business day of the second month preceding the relevant contract month (e.g., the futures contract that is settled in March will cease trading on the last business day of January). The official settlement price is determined by ICE Futures Europe based on the weighted average price of trades during a two minute settlement period from 19:28:00, London time.

Historical Information

The graph below shows the underlying settlement price for each day such price was available from January 2, 2014 to March 4, 2019. The table that follows shows the high, low and end-of-quarter underlying settlement price for each quarter in that same period. The underlying settlement price on March 4, 2019 was \$65.67. We obtained the underlying settlement prices from Bloomberg L.P., without independent verification. You should not take the historical underlying settlement prices as an indication of future performance.

Brent Crude Oil Futures — Historical Underlying Settlement Prices

January 2, 2014 to March 4, 2019

Brent Crude Oil Futures (in U.S. dollars per barrel)	High (\$)	Low (\$)	Period End (\$)
2014			
First Quarter	\$93.18	\$86.19	\$91.89
Second Quarter	\$99.31	\$91.77	\$98.45
Third Quarter	\$99.41	\$93.59	\$93.59
Fourth Quarter	\$94.52	\$73.40	\$77.14
2015			
First Quarter	\$77.46	\$70.90	\$71.81

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Brent Crude Oil Futures (in U.S. dollars per barrel)	High (\$)	Low (\$)	Period End (\$)
Second Quarter	\$75.89	\$70.31	\$72.36
Third Quarter			