# ING Bank N.V. Legal entity identifier (LEI): 3TK20IVIUJ8J3ZU0QE75 Issue of

| Series<br>number of<br>the<br>Certificates | WKN<br>Code | ISIN Code    | Number of<br>Certificates<br>being issued | Title  |
|--|-------------|--------------|---|--|
| 282,564                                    | NG7JR2      | DE000NG7JR24 | 1,000,000                                 | ING Short Commodity Open End Turbo Certificate |
| 282,565                                    | NG7JR3      | DE000NG7JR32 | 1,000,000                                 | ING Short Commodity Open End Turbo Certificate |
| 282,566                                    | NG7JR4      | DE000NG7JR40 | 1,000,000                                 | ING Short Commodity Open End Turbo Certificate |
| 282,567                                    | NG7JR5      | DE000NG7JR57 | 1,000,000                                 | ING Short Commodity Open End Turbo Certificate |
| 282,568                                    | NG7JR6      | DE000NG7JR65 | 1,000,000                                 | ING Short Commodity Open End Turbo Certificate |
| 282,569                                    | NG7JR7      | DE000NG7JR73 | 1,000,000                                 | ING Short Commodity Open End Turbo Certificate |
| 282,570                                    | NG7JR8      | DE000NG7JR81 | 1,000,000                                 | ING Short Commodity Open End Turbo Certificate |
| 282,571                                    | NG7JR9      | DE000NG7JR99 | 1,000,000                                 | ING Short Commodity Open End Turbo Certificate |
| 282,572                                    | NG7JSA      | DE000NG7JSA4 | 500,000                                   | ING Short Commodity Open End Turbo Certificate |
| 282,573                                    | NG7JSB      | DE000NG7JSB2 | 500,000                                   | ING Short Commodity Open End Turbo Certificate |
| 282,574                                    | NG7JSC      | DE000NG7JSC0 | 250,000                                   | ING Short Commodity Open End Turbo Certificate |
| 282,575                                    | NG7JSD      | DE000NG7JSD8 | 250,000                                   | ING Short Commodity Open End Turbo Certificate |
| 282,576                                    | NG7JSE      | DE000NG7JSE6 | 250,000                                   | ING Short Commodity Open End Turbo Certificate |
| 282,577                                    | NG7JSF      | DE000NG7JSF3 | 250,000                                   | ING Short Commodity Open End Turbo Certificate |
| 282,578                                    | NG7JSG      | DE000NG7JSG1 | 250,000                                   | ING Short Commodity Open End Turbo Certificate |
| 282,579                                    | NG7JSH      | DE000NG7JSH9 | 250,000                                   | ING Short Commodity Open End Turbo Certificate |
| 282,580                                    | NG7JSJ      | DE000NG7JSJ5 | 250,000                                   | ING Short Commodity Open End Turbo Certificate |
| 282,581                                    | NG7JSK      | DE000NG7JSK3 | 250,000                                   | ING Short Commodity Open End Turbo Certificate |
| 282,582                                    | NG7JSL      | DE000NG7JSL1 | 250,000                                   | ING Short Commodity Open End Turbo Certificate |
| 282,583                                    | NG7JSM      | DE000NG7JSM9 | 250,000                                   | ING Short Commodity Open End Turbo Certificate |
| 282,584                                    | NG7JSN      | DE000NG7JSN7 | 250,000                                   | ING Short Commodity Open End Turbo Certificate |

#### **Certificates Programme**

Any person making or intending to make an offer of the Certificates may only do so:

- (i) in those Non-exempt Offer Jurisdictions mentioned in the paragraph Distribution of Part B below, provided such person is a Dealer or Authorised Offeror (as such term is defined in the Prospectus) and that any conditions relevant to the use of the Prospectus are complied with; or
- (ii) otherwise in circumstances in which no obligation arises for the Issuer or any Dealer to publish a prospectus pursuant to Article 3 of Regulation (EU) 2017/1129 (the "**Prospectus Regulation**") or to supplement a prospectus pursuant to Article 23 of the Prospectus Regulation, in each case, in relation to such offer.

Neither the Issuer nor any Dealer has authorised, nor do they authorise, the making of any offer of Certificates in any other circumstances.

MiFID II product governance / Retail investors, professional investors and ECPs target market – Solely for the purposes of the manufacturer's product approval process, the target market assessment in respect of the Certificates has led to the conclusion that: (i) the target market for the Certificates is eligible counterparties, professional clients and retail clients, each as defined in Directive 2014/65/EU (as amended, "MiFID II"); and (ii) all channels for distribution to eligible counterparties and professional clients are appropriate; and (iii) the following channels for distribution of the Certificates to retail clients are appropriate - investment advice, portfolio management, non-advised sales and pure execution services - subject to the distributor's suitability and appropriateness obligations under MiFID II, as applicable. Any person subsequently offering, selling or recommending the Certificates (a "distributor") should take into consideration the manufacturer's target market assessment; however, a distributor subject to MiFID II is responsible for undertaking its own target market assessment in respect of the Certificates (by either adopting or refining the manufacturer's target market assessment) and determining appropriate distribution channels, subject to the distributor's suitability and appropriateness obligations under MiFID II, as applicable.

PROHIBITION OF SALES TO UK RETAIL INVESTORS – The Certificates are not intended to be offered, sold or otherwise made available to and should not be offered, sold or otherwise made available to any retail investor in the United Kingdom ("UK"). For these purposes, a retail investor means a person who is one (or more) of: (i) a retail client, as defined in point (8) of Article 2 of Regulation (EU) No 2017/565 as it forms part of UK domestic law by virtue of the European Union (Withdrawal) Act 2018 ("EUWA"); (ii) a customer within the meaning of the provisions of the FSMA and any rules or regulations made under the FSMA to implement the Insurance Distribution Directive, where that customer would not qualify as a professional client, as defined in point (8) of Article 2(1) of Regulation (EU) No 600/2014 as it forms part of UK domestic law by virtue of the EUWA; or (iii) not a qualified investor as defined in Article 2 of the Prospectus Regulation as it forms part of UK domestic law by virtue of the EUWA (the "UK Prospectus Regulation"). Consequently no key information document required by Regulation (EU) No 1286/2014 as it forms part of UK domestic law by virtue of the EUWA (the "UK PRIIPs Regulation") for offering or selling the Certificates or otherwise making them available to retail investors in the UK has been prepared and therefore offering or selling the Certificates or otherwise making them available to any retail investor in the UK may be unlawful under the UK PRIIPs Regulation.

These Final Terms have been prepared for the purpose of Article 8 of Regulation (EU) 2017/1129, as amended, and must be read in conjunction with the base prospectus consisting of separate documents (i.e. (i) the securities note dated 24 March 2023 and its supplement(s) (if any) (the "Securities Note") and (ii) the registration document of ING Bank N.V. (the "Issuer") dated 24 March 2023, and its supplement(s) (if any)) (the "Registration Document" and together with the Securities Note, the "Prospectus")) pertaining to the Issuer's Certificates Programme. Terms used herein shall be deemed to be defined as such for the purposes of the conditions set forth in the General Certificate Conditions and the relevant Product Conditions contained in the Prospectus which constitutes a base prospectus for the purposes of Regulation (EU) 2017/1129, as amended or superseded (the "Prospectus Regulation"). Full information on the Issuer and the offer of the Certificates is only available on the basis of the Prospectus, any supplements thereto and these Final Terms. The Prospectus and any supplements thereto are available for viewing at the Issuer's website (www.ingmarkets.com) and copies may be obtained from ING Bank N.V at Foppingadreef 7, 1102 BD Amsterdam, the Netherlands (E-mail: info@sprinters.nl) and are available for viewing on the websites www.ingmarkets.de, www.ingsprinters.nl and www.ingturbos.fr.

Prospective investors should carefully consider the section "Risk Factors" in the Prospectus.

## GENERAL DESCRIPTION OF THE CERTIFICATES

| 1        | (a) Series number of the Certificates:  | As specified in the table below |
|----------|---|---------------------------------|
|          | (b) Whether or not the Certificates are to be consolidated and form a single series with the Certificates of an existing series:  | 1                               |
| 2        | (a) The type of Certificates which may be Index<br>Certificates, Share Certificates, Currency<br>Certificates, Commodity Certificates, Fund<br>Certificates, Government Bond Certificates,<br>Other Bond Certificates or Index Futures<br>Certificates: |                                 |
|          | (b) Whether such Certificates are Best Certificates, Factor Certificates, Limited Certificates, Discount Certificates, Open Ended Certificates, Fixed Leverage Certificates or Tracker Certificates.  | Best or Turbo Best)             |
|          | (c) Whether such Certificates are Long<br>Certificates or Short Certificates:   | Short Certificates              |
| 3        | Number of Certificates being issued:  | As specified in the table below |
| 4        | Issue Price per Certificate:  | As specified in the table below |
| 5        | Trade Date:   | 02 October 2023                 |
| 6        | Issue Date:   | 04 October 2023                 |
| 7        | "as-if-and-when-issued" trading:  | Not Applicable                  |
| 8        | Current Financing Level on the Trade Date:  | As specified in the table below |
| 9        | Current Spread on the Trade Date:   | As specified in the table below |
| 10       | Maximum Spread:   | As specified in the table below |
| 11       | Current Stop Loss Premium Rate on the Trade Date:   | As specified in the table below |
| 12       | Maximum Premium:  | As specified in the table below |
| 13       | Minimum Premium:  | As specified in the table below |
| <u> </u> |   | 1                               |

| 14  | Stop Loss Price on the Trade Date:   | As specified in the table below                                 |
|-----|--|---|
|     |  |   |
| 15  | Stop Loss Price Rounding:  | As specified in the table below                                 |
| 1.6 | Entitlement:   | A   |
| 16  | Entitlement:   | As specified in the table below                                 |
| 17  | Financing Level Currency:  | As specified in the table below                                 |
| 18  | Settlement Currency:   | EUR   |
| 19  | Exercise Time:   | 12:00 AM Central European Time                                  |
| 20  | Cash Settlement Amount:  | As specified in the Commodity Certificate Conditions            |
| 21  | Final Valuation Date:  | Not Applicable  |
| 22  | Valuation Date(s):   | Annually, commencing on the date one year after the Issue Date. |
| 23  | Applicable Business Day Centre(s) for the purposes of the definition of "Business Day" | Amsterdam   |

| Series  | ISIN Code  | Number      | Issue   | Current | Curre | Maxi  | Current | Maxi  | Minim | Stop    | Stop  | Entit | Finan |
|---------|------------|-------------|---------|---------|-------|-------|---------|-------|-------|---------|-------|-------|-------|
| Numb    | 15114 0000 | of          | price   | Financi | nt    | mum   | Stop    | mum   | um    | Loss    | Loss  | lem   | cing  |
| er of   |            | Certificate | per     | ng      | Sprea | Sprea | Loss    | Premi | Premi | Price   | Price | ent   | Level |
| the     |            | s being     | Certifi | Level   | d on  | d     | Premiu  | um    | um    | on the  | Roun  |       | Curre |
| Certifi |            | issued      | cate    | on the  | the   |       | m       |       |       | Trade   | ding  |       | ncy   |
| cates   |            |             |         | Trade   | Trade |       | Rate    |       |       | Date    |       |       | '     |
|         |            |             |         | Date    | Date  |       | on the  |       |       |         |       |       |       |
|         |            |             |         |         |       |       | Trade   |       |       |         |       |       |       |
|         |            |             |         |         |       |       | Date    |       |       |         |       |       |       |
| 282,56  | DE000NG7   | 1,000,000   | 0.04    | 93.3800 | 3.5   | 5.0   | 7.5     | 20.0  | 0.0   | 93.3800 | 0.01  | 0.1   | USD   |
| 4       | JR24       |             |         | 000000  |       |       |         |       |       | 000000  |       |       |       |
| 282,56  | DE000NG7   | 1,000,000   | 0.06    | 93.6300 | 3.5   | 5.0   | 7.5     | 20.0  | 0.0   | 93.6300 | 0.01  | 0.1   | USD   |
| 5       | JR32       |             |         | 000000  |       |       |         |       |       | 000000  |       |       |       |
| 282,56  | DE000NG7   | 1,000,000   | 0.09    | 93.8800 | 3.5   | 5.0   | 7.5     | 20.0  | 0.0   | 93.8800 | 0.01  | 0.1   | USD   |
| 6       | JR40       |             |         | 000000  |       |       |         |       |       | 000000  |       |       |       |
| 282,56  | DE000NG7   | 1,000,000   | 0.11    | 94.1300 | 3.5   | 5.0   | 7.5     | 20.0  | 0.0   | 94.1300 | 0.01  | 0.1   | USD   |
| 7       | JR57       |             |         | 000000  |       |       |         |       |       | 000000  |       |       |       |
| 282,56  | DE000NG7   | 1,000,000   | 0.13    | 94.3800 | 3.5   | 5.0   | 7.5     | 20.0  | 0.0   | 94.3800 | 0.01  | 0.1   | USD   |
| 8       | JR65       |             |         | 000000  |       |       |         |       |       | 000000  |       |       |       |
| 282,56  | DE000NG7   | 1,000,000   | 0.16    | 94.6300 | 3.5   | 5.0   | 7.5     | 20.0  | 0.0   | 94.6300 | 0.01  | 0.1   | USD   |
| 9       | JR73       |             |         | 000000  |       |       |         |       |       | 000000  |       |       |       |
| 282,57  | DE000NG7   | 1,000,000   | 0.18    | 94.8800 | 3.5   | 5.0   | 7.5     | 20.0  | 0.0   | 94.8800 | 0.01  | 0.1   | USD   |
| 0       | JR81       |             |         | 000000  |       |       |         |       |       | 000000  |       |       |       |
| 282,57  | DE000NG7   | 1,000,000   | 0.2     | 95.1300 | 3.5   | 5.0   | 7.5     | 20.0  | 0.0   | 95.1300 | 0.01  | 0.1   | USD   |
| 1       | JR99       |             |         | 000000  |       |       |         |       |       | 000000  |       |       |       |
| 282,57  | DE000NG7   | 500,000     | 0.06    | 1874.35 | 3.5   | 5.0   | 3.0     | 20.0  | 0.0   | 1874.35 | 0.01  | 0.1   | USD   |
| 2       | JSA4       |             |         | 000000  |       |       |         |       |       | 000000  |       |       |       |

|             |                  |         |      | 00                      |     |     |     |      |     | 00                      |      |     |     |
|-------------|------------------|---------|------|-------------------------|-----|-----|-----|------|-----|-------------------------|------|-----|-----|
| 282,57<br>3 | DE000NG7<br>JSB2 | 500,000 | 0.2  | 1875.85<br>000000<br>00 | 3.5 | 5.0 | 3.0 | 20.0 | 0.0 | 1875.85<br>000000<br>00 | 0.01 | 0.1 | USD |
| 282,57<br>4 | DE000NG7<br>JSC0 | 250,000 | 0.3  | 91.9400<br>000000       | 3.5 | 5.0 | 7.5 | 20.0 | 0.0 | 91.9400<br>000000       | 0.01 | 1.0 | USD |
| 282,57<br>5 | DE000NG7<br>JSD8 | 250,000 | 0.54 | 92.1900<br>000000       | 3.5 | 5.0 | 7.5 | 20.0 | 0.0 | 92.1900<br>000000       | 0.01 | 1.0 | USD |
| 282,57<br>6 | DE000NG7<br>JSE6 | 250,000 | 0.77 | 92.4400<br>000000       | 3.5 | 5.0 | 7.5 | 20.0 | 0.0 | 92.4400<br>000000       | 0.01 | 1.0 | USD |
| 282,57<br>7 | DE000NG7<br>JSF3 | 250,000 | 1.01 | 92.6900<br>000000       | 3.5 | 5.0 | 7.5 | 20.0 | 0.0 | 92.6900<br>000000       | 0.01 | 1.0 | USD |
| 282,57<br>8 | DE000NG7<br>JSG1 | 250,000 | 1.24 | 92.9400<br>000000       | 3.5 | 5.0 | 7.5 | 20.0 | 0.0 | 92.9400<br>000000       | 0.01 | 1.0 | USD |
| 282,57<br>9 | DE000NG7<br>JSH9 | 250,000 | 1.48 | 93.1900<br>000000       | 3.5 | 5.0 | 7.5 | 20.0 | 0.0 | 93.1900<br>000000       | 0.01 | 1.0 | USD |
| 282,58<br>0 | DE000NG7<br>JSJ5 | 250,000 | 1.72 | 93.4400<br>000000       | 3.5 | 5.0 | 7.5 | 20.0 | 0.0 | 93.4400<br>000000       | 0.01 | 1.0 | USD |
| 282,58<br>1 | DE000NG7<br>JSK3 | 250,000 | 1.95 | 93.6900<br>000000       | 3.5 | 5.0 | 7.5 | 20.0 | 0.0 | 93.6900<br>000000       | 0.01 | 1.0 | USD |
| 282,58<br>2 | DE000NG7<br>JSL1 | 250,000 | 2.19 | 93.9400<br>000000       | 3.5 | 5.0 | 7.5 | 20.0 | 0.0 | 93.9400<br>000000       | 0.01 | 1.0 | USD |
| 282,58<br>3 | DE000NG7<br>JSM9 | 250,000 | 2.42 | 94.1900<br>000000       | 3.5 | 5.0 | 7.5 | 20.0 | 0.0 | 94.1900<br>000000       | 0.01 | 1.0 | USD |
| 282,58<br>4 | DE000NG7<br>JSN7 | 250,000 | 2.66 | 94.4400<br>000000       | 3.5 | 5.0 | 7.5 | 20.0 | 0.0 | 94.4400<br>000000       | 0.01 | 1.0 | USD |

## ADDITIONAL SPECIFIC PRODUCT RELATED PROVISIONS:

| 24 | Index Certificate Provisions            | Not Applicable |
|----|---|----------------|
| 25 | Share Certificate Provisions            | Not Applicable |
|    |   |                |
| 26 | <b>Currency Certificate Provisions</b>  | Not Applicable |
| 27 | <b>Commodity Certificate Provisions</b> | Applicable     |

| Series  | ISIN   | (i)       | (ii)      | (iii) Price         | (iv)  | (v)       | (vi) Rollover | (vii)    | (viii)     |
|---------|--------|-----------|-----------|---------------------|-------|-----------|---------------|----------|------------|
| Numb    | Code   | Commodi   | Commo     | Source/             | Speci | Delivery  | Date          | Exchang  | Valuation  |
| er of   |        | ty        | dity      | Reference           | fied  | Dates     |               | е        | Time       |
| the     |        |           | Referen   | Dealers             | Price |           |               |          |            |
| Certifi |        |           | ce Price  |                     |       |           |               |          |            |
| cates   |        |           |           |                     |       |           |               |          |            |
| 282,56  | DE000N | Brent     | Oil-Brent | Initially           | The   | (i) First | A date, as    | ICE      | The close  |
| 4       | G7JR24 | Crude Oil | -ICE      | Bloomberg           | price | nearby    | determined    | Futures  | of trading |
|         |        |           |           | code: COZ3          |       | month     | by the        | US Softs | on the     |
|         |        |           |           | <cmdty> and</cmdty> |       | of        | Calculation   |          | Exchange   |
|         |        |           |           | after the first     |       | expiratio | Agent, in the |          |            |
|         |        |           |           | Rollover Date       |       | n or (ii) | period        |          |            |
|         |        |           |           | the Bloomberg       |       | the       | commencing    |          |            |
|         |        |           |           | page referring      |       | month     | on the        |          |            |
|         |        |           |           | to the relevant     |       | of        | previous      |          |            |
|         |        |           |           | Futures             |       | expiratio | Rollover      |          |            |
|         |        |           |           | Contract.           |       | n with    | Date (or in   |          |            |

|        |         |           |           |                     |       | the        | the case of   |          |            |
|--------|---------|-----------|-----------|---------------------|-------|------------|---------------|----------|------------|
|        |         |           |           |                     |       | highest    | the first     |          |            |
|        |         |           |           |                     |       | volumes, a |               |          |            |
|        |         |           |           |                     |       | s          | Date the      |          |            |
|        |         |           |           |                     |       | determin   | Issue Date)   |          |            |
|        |         |           |           |                     |       | ed by      | and ending    |          |            |
|        |         |           |           |                     |       | the        | not less than |          |            |
|        |         |           |           |                     |       | Calculati  | 5             |          |            |
|        |         |           |           |                     |       | on         | Commodity     |          |            |
|        |         |           |           |                     |       |            | Business      |          |            |
|        |         |           |           |                     |       | Agent.     |               |          |            |
|        |         |           |           |                     |       |            | Days prior to |          |            |
|        |         |           |           |                     |       |            | the last      |          |            |
|        |         |           |           |                     |       |            | trading date  |          |            |
|        |         |           |           |                     |       |            | of the        |          |            |
|        |         |           |           |                     |       |            | relevant      |          |            |
|        |         |           |           |                     |       |            | Futures       |          |            |
|        |         |           |           |                     |       |            | Contract of   |          |            |
|        |         |           |           |                     |       |            | the           |          |            |
|        |         |           |           |                     |       |            |               |          |            |
| 202.56 | DEGGGST | D         | 0.1 D     | T., '4', 11         | T     | (') E' '   | Commodity.    | ICE      | TT1 1      |
| 282,56 |         | Brent     | Oil-Brent |                     | The   | (i) First  | A date, as    | ICE      | The close  |
| 5      | G7JR32  | Crude Oil | -ICE      | Bloomberg           | price | nearby     | determined    | Futures  | of trading |
|        |         |           |           | code: COZ3          |       | month      | by the        | US Softs | on the     |
|        |         |           |           | <cmdty> and</cmdty> |       | of         | Calculation   |          | Exchange   |
|        |         |           |           | after the first     |       | expiratio  | Agent, in the |          |            |
|        |         |           |           | Rollover Date       |       | n or (ii)  | period        |          |            |
|        |         |           |           | the Bloomberg       |       | the        | commencing    |          |            |
|        |         |           |           | page referring      |       | month      | on the        |          |            |
|        |         |           |           | to the relevant     |       | of         | previous      |          |            |
|        |         |           |           | Futures             |       | expiratio  | Rollover      |          |            |
|        |         |           |           |                     |       |            |               |          |            |
|        |         |           |           | Contract.           |       | n with     | Date (or in   |          |            |
|        |         |           |           |                     |       | the        | the case of   |          |            |
|        |         |           |           |                     |       | highest    | the first     |          |            |
|        |         |           |           |                     |       | volumes, a |               |          |            |
|        |         |           |           |                     |       | s          | Date the      |          |            |
|        |         |           |           |                     |       | determin   | Issue Date)   |          |            |
|        |         |           |           |                     |       | ed by      | and ending    |          |            |
|        |         |           |           |                     |       | the        | not less than |          |            |
|        |         |           |           |                     |       | Calculati  | 5             |          |            |
|        |         |           |           |                     |       |            | Commodity     |          |            |
|        |         |           |           |                     |       | on         |               |          |            |
|        |         |           |           |                     |       | Agent.     | Business      |          |            |
|        |         |           |           |                     |       |            | Days prior to |          |            |
|        |         |           |           |                     |       |            | the last      |          |            |
|        |         |           |           |                     |       |            | trading date  |          |            |
|        |         |           |           |                     |       |            | of the        |          |            |
|        |         |           |           |                     |       |            | relevant      |          |            |
|        |         |           |           |                     |       |            | Futures       |          |            |
|        |         |           |           |                     |       |            | Contract of   |          |            |
|        |         |           |           |                     |       |            | the           |          |            |
|        |         |           |           |                     |       |            | Commodity.    |          |            |
| 282,56 | DE000N  | Brent     | Oil-Brent | Initially           | The   | (i) First  | A date, as    | ICE      | The close  |
|        |         |           |           |                     |       |            |               |          |            |
| 6      | G7JR40  | Crude Oil | -ICE      | Bloomberg           | price | nearby     | determined    | Futures  | of trading |
|        |         |           |           | code: COZ3          |       | month      | by the        | US Softs | on the     |
|        |         |           |           | <cmdty> and</cmdty> |       | of         | Calculation   |          | Exchange   |
|        |         |           |           | after the first     |       | expiratio  | Agent, in the |          |            |
|        |         |           |           | Rollover Date       |       | n or (ii)  | period        |          |            |
|        |         |           |           | the Bloomberg       |       | the        | commencing    |          |            |
|        |         |           |           | page referring      |       | month      | on the        |          |            |
|        |         |           |           | to the relevant     |       | of         | previous      |          |            |
|        |         |           |           | Futures             |       | expiratio  | Rollover      |          |            |
|        |         |           |           | Contract.           |       | n with     | Date (or in   |          |            |
| i      | l       |           |           | Connact.            | ]     | III WIUI   | מוני (טו III  |          |            |

|        |         |           |           |                     |       | the        | the case of   |          |            |
|--------|---------|-----------|-----------|---------------------|-------|------------|---------------|----------|------------|
|        |         |           |           |                     |       | highest    | the first     |          |            |
|        |         |           |           |                     |       | volumes, a |               |          |            |
|        |         |           |           |                     |       | s          | Date the      |          |            |
|        |         |           |           |                     |       | determin   | Issue Date)   |          |            |
|        |         |           |           |                     |       | ed by      | and ending    |          |            |
|        |         |           |           |                     |       | the        | not less than |          |            |
|        |         |           |           |                     |       | Calculati  | 5             |          |            |
|        |         |           |           |                     |       | on         | Commodity     |          |            |
|        |         |           |           |                     |       |            | Business      |          |            |
|        |         |           |           |                     |       | Agent.     |               |          |            |
|        |         |           |           |                     |       |            | Days prior to |          |            |
|        |         |           |           |                     |       |            | the last      |          |            |
|        |         |           |           |                     |       |            | trading date  |          |            |
|        |         |           |           |                     |       |            | of the        |          |            |
|        |         |           |           |                     |       |            | relevant      |          |            |
|        |         |           |           |                     |       |            | Futures       |          |            |
|        |         |           |           |                     |       |            | Contract of   |          |            |
|        |         |           |           |                     |       |            | the           |          |            |
|        |         |           |           |                     |       |            |               |          |            |
| 202.56 | DECOORT | D         | 0.1 D     | T., '4', 11         | T     | (') E' '   | Commodity.    | ICE      | TPL 1      |
| 282,56 |         | Brent     | Oil-Brent |                     | The   | (i) First  | A date, as    | ICE      | The close  |
| 7      | G7JR57  | Crude Oil | -ICE      | Bloomberg           | price | nearby     | determined    | Futures  | of trading |
|        |         |           |           | code: COZ3          |       | month      | by the        | US Softs | on the     |
|        |         |           |           | <cmdty> and</cmdty> |       | of         | Calculation   |          | Exchange   |
|        |         |           |           | after the first     |       | expiratio  | Agent, in the |          |            |
|        |         |           |           | Rollover Date       |       | n or (ii)  | period        |          |            |
|        |         |           |           | the Bloomberg       |       | the        | commencing    |          |            |
|        |         |           |           | page referring      |       | month      | on the        |          |            |
|        |         |           |           | to the relevant     |       | of         | previous      |          |            |
|        |         |           |           | Futures             |       | expiratio  | Rollover      |          |            |
|        |         |           |           |                     |       |            |               |          |            |
|        |         |           |           | Contract.           |       | n with     | Date (or in   |          |            |
|        |         |           |           |                     |       | the        | the case of   |          |            |
|        |         |           |           |                     |       | highest    | the first     |          |            |
|        |         |           |           |                     |       | volumes, a |               |          |            |
|        |         |           |           |                     |       | s          | Date the      |          |            |
|        |         |           |           |                     |       | determin   | Issue Date)   |          |            |
|        |         |           |           |                     |       | ed by      | and ending    |          |            |
|        |         |           |           |                     |       | the        | not less than |          |            |
|        |         |           |           |                     |       | Calculati  | 5             |          |            |
|        |         |           |           |                     |       |            | Commodity     |          |            |
|        |         |           |           |                     |       | on         |               |          |            |
|        |         |           |           |                     |       | Agent.     | Business      |          |            |
|        |         |           |           |                     |       |            | Days prior to |          |            |
|        |         |           |           |                     |       |            | the last      |          |            |
|        |         |           |           |                     |       |            | trading date  |          |            |
|        |         |           |           |                     |       |            | of the        |          |            |
|        |         |           |           |                     |       |            | relevant      |          |            |
|        |         |           |           |                     |       |            | Futures       |          |            |
|        |         |           |           |                     |       |            | Contract of   |          |            |
|        |         |           |           |                     |       |            | the           |          |            |
|        |         |           |           |                     |       |            | Commodity.    |          |            |
| 202.56 | DE000N  | Dront     | Oil Decod | Initially           | The   | (i) E:     |               | ICE      | The close  |
| 282,56 |         | Brent     | Oil-Brent |                     |       | (i) First  | A date, as    |          |            |
| 8      | G7JR65  | Crude Oil | -ICE      | Bloomberg           | price | nearby     | determined    | Futures  | of trading |
|        |         |           |           | code: COZ3          |       | month      | by the        | US Softs | on the     |
|        |         |           |           | <cmdty> and</cmdty> |       | of         | Calculation   |          | Exchange   |
|        |         |           |           | after the first     |       | expiratio  | Agent, in the |          |            |
|        |         |           |           | Rollover Date       |       | n or (ii)  | period        |          |            |
|        |         |           |           | the Bloomberg       |       | the        | commencing    |          |            |
|        |         |           |           | page referring      |       | month      | on the        |          |            |
|        |         |           |           | to the relevant     |       | of         | previous      |          |            |
|        |         |           |           | Futures             |       | expiratio  | Rollover      |          |            |
| 1      | I       | I         | Ī         | 1 utuies            |       | Гехриано   | LYOHOACI      | Ī        |            |
|        |         | 1         |           | Contract.           |       | n with     | Date (or in   |          |            |

|        |         |           | 1         | 1                   |       |            |               |          | -          |
|--------|---------|-----------|-----------|---------------------|-------|------------|---------------|----------|------------|
|        |         |           |           |                     |       | the        | the case of   |          |            |
|        |         |           |           |                     |       | highest    | the first     |          |            |
|        |         |           |           |                     |       | volumes, a |               |          |            |
|        |         |           |           |                     |       | s          | Date the      |          |            |
|        |         |           |           |                     |       | determin   | Issue Date)   |          |            |
|        |         |           |           |                     |       | ed by      | and ending    |          |            |
|        |         |           |           |                     |       | the        | not less than |          |            |
|        |         |           |           |                     |       | Calculati  | 5             |          |            |
|        |         |           |           |                     |       | on         | Commodity     |          |            |
|        |         |           |           |                     |       |            | Business      |          |            |
|        |         |           |           |                     |       | Agent.     |               |          |            |
|        |         |           |           |                     |       |            | Days prior to |          |            |
|        |         |           |           |                     |       |            | the last      |          |            |
|        |         |           |           |                     |       |            | trading date  |          |            |
|        |         |           |           |                     |       |            | of the        |          |            |
|        |         |           |           |                     |       |            | relevant      |          |            |
|        |         |           |           |                     |       |            | Futures       |          |            |
|        |         |           |           |                     |       |            | Contract of   |          |            |
|        |         |           |           |                     |       |            | the           |          |            |
|        |         |           |           |                     |       |            |               |          |            |
| 202.56 | DEGGGST | D         | 0.1 D     | T., '4', 11         | Tri   | (') E' '   | Commodity.    | ICE      | TT1 1      |
| 282,56 |         | Brent     | Oil-Brent | •                   | The   | (i) First  | A date, as    | ICE      | The close  |
| 9      | G7JR73  | Crude Oil | -ICE      | Bloomberg           | price | nearby     | determined    | Futures  | of trading |
|        |         |           |           | code: COZ3          |       | month      | by the        | US Softs | on the     |
|        |         |           |           | <cmdty> and</cmdty> |       | of         | Calculation   |          | Exchange   |
|        |         |           |           | after the first     |       | expiratio  | Agent, in the |          |            |
|        |         |           |           | Rollover Date       |       | n or (ii)  | period        |          |            |
|        |         |           |           | the Bloomberg       |       | the        | commencing    |          |            |
|        |         |           |           | page referring      |       | month      | on the        |          |            |
|        |         |           |           | to the relevant     |       | of         | previous      |          |            |
|        |         |           |           | Futures             |       | expiratio  | Rollover      |          |            |
|        |         |           |           |                     |       |            |               |          |            |
|        |         |           |           | Contract.           |       | n with     | Date (or in   |          |            |
|        |         |           |           |                     |       | the        | the case of   |          |            |
|        |         |           |           |                     |       | highest    | the first     |          |            |
|        |         |           |           |                     |       | volumes, a |               |          |            |
|        |         |           |           |                     |       | s          | Date the      |          |            |
|        |         |           |           |                     |       | determin   | Issue Date)   |          |            |
|        |         |           |           |                     |       | ed by      | and ending    |          |            |
|        |         |           |           |                     |       | the        | not less than |          |            |
|        |         |           |           |                     |       | Calculati  | 5             |          |            |
|        |         |           |           |                     |       |            | Commodity     |          |            |
|        |         |           |           |                     |       | on         |               |          |            |
|        |         |           |           |                     |       | Agent.     | Business      |          |            |
|        |         |           |           |                     |       |            | Days prior to |          |            |
|        |         |           |           |                     |       |            | the last      |          |            |
|        |         |           |           |                     |       |            | trading date  |          |            |
|        |         |           |           |                     |       |            | of the        |          |            |
|        |         |           |           |                     |       |            | relevant      |          |            |
|        |         |           |           |                     |       |            | Futures       |          |            |
|        |         |           |           |                     |       |            | Contract of   |          |            |
|        |         |           |           |                     |       |            | the           |          |            |
|        |         |           |           |                     |       |            | Commodity.    |          |            |
| 282,57 | DE000N  | Brent     | Oil-Brent | Initially           | The   | (i) First  | A date, as    | ICE      | The close  |
|        |         |           |           |                     |       |            |               |          |            |
| 0      | G7JR81  | Crude Oil | -ICE      | Bloomberg           | price | nearby     | determined    | Futures  | of trading |
|        |         |           |           | code: COZ3          |       | month      | by the        | US Softs | on the     |
|        |         |           |           | <cmdty> and</cmdty> |       | of         | Calculation   |          | Exchange   |
|        |         |           |           | after the first     |       | expiratio  | Agent, in the |          |            |
|        |         |           |           | Rollover Date       |       | n or (ii)  | period        |          |            |
|        |         |           |           | the Bloomberg       |       | the        | commencing    |          |            |
|        |         |           |           | page referring      |       | month      | on the        |          |            |
|        |         |           |           | to the relevant     |       | of         | previous      |          |            |
|        |         |           |           | Futures             |       | expiratio  | Rollover      |          |            |
|        |         |           |           | Contract.           |       | n with     | Date (or in   |          |            |
| 1      | l       |           |           | Connact.            |       | III WIUI   | מוני (טו III  |          |            |

|        |             | 1         | ı         |                     | 1     | La                  | 4 C                     |          |            |
|--------|-------------|-----------|-----------|---------------------|-------|---------------------|-------------------------|----------|------------|
|        |             |           |           |                     |       | the                 | the case of             |          |            |
|        |             |           |           |                     |       | highest             | the first               |          |            |
|        |             |           |           |                     |       | volumes, a          |                         |          |            |
|        |             |           |           |                     |       | S                   | Date the                |          |            |
|        |             |           |           |                     |       | determin            | Issue Date)             |          |            |
|        |             |           |           |                     |       | ed by               | and ending              |          |            |
|        |             |           |           |                     |       | the                 | not less than           |          |            |
|        |             |           |           |                     |       | Calculati           | 5                       |          |            |
|        |             |           |           |                     |       | on                  | Commodity               |          |            |
|        |             |           |           |                     |       | Agent.              | Business                |          |            |
|        |             |           |           |                     |       | 1 1801111           | Days prior to           |          |            |
|        |             |           |           |                     |       |                     | the last                |          |            |
|        |             |           |           |                     |       |                     | trading date            |          |            |
|        |             |           |           |                     |       |                     | of the                  |          |            |
|        |             |           |           |                     |       |                     | relevant                |          |            |
|        |             |           |           |                     |       |                     | Futures                 |          |            |
|        |             |           |           |                     |       |                     | Contract of             |          |            |
|        |             |           |           |                     |       |                     |                         |          |            |
|        |             |           |           |                     |       |                     | the                     |          |            |
| 265    |             | <u> </u>  | 0.11 =    | - 1 1 22            |       | /n =:               | Commodity.              | T.07     |            |
| 282,57 |             | Brent     | Oil-Brent |                     | The   | (i) First           | A date, as              | ICE      | The close  |
| 1      | G7JR99      | Crude Oil | -ICE      | Bloomberg           | price | nearby              | determined              | Futures  | of trading |
|        |             |           |           | code: COZ3          |       | month               | by the                  | US Softs | on the     |
|        |             |           |           | <cmdty> and</cmdty> |       | of                  | Calculation             |          | Exchange   |
|        |             |           |           | after the first     |       | expiratio           | Agent, in the           |          | -          |
|        |             |           |           | Rollover Date       |       | n or (ii)           | period                  |          |            |
|        |             |           |           | the Bloomberg       |       | the                 | commencing              |          |            |
|        |             |           |           | page referring      |       | month               | on the                  |          |            |
|        |             |           |           | to the relevant     |       | of                  | previous                |          |            |
|        |             |           |           | Futures             |       | expiratio           | Rollover                |          |            |
|        |             |           |           | Contract.           |       | n with              | Date (or in             |          |            |
|        |             |           |           |                     |       | the                 | the case of             |          |            |
|        |             |           |           |                     |       | highest             | the first               |          |            |
|        |             |           |           |                     |       | volumes, a          |                         |          |            |
|        |             |           |           |                     |       | s volumes, a        | Date the                |          |            |
|        |             |           |           |                     |       | determin            | Issue Date)             |          |            |
|        |             |           |           |                     |       |                     | and ending              |          |            |
|        |             |           |           |                     |       | ed by               |                         |          |            |
|        |             |           |           |                     |       | the                 | not less than           |          |            |
|        |             |           |           |                     |       | Calculati           | 5                       |          |            |
|        |             |           |           |                     |       | on                  | Commodity               |          |            |
|        |             |           |           |                     |       | Agent.              | Business                |          |            |
|        |             |           |           |                     |       |                     | Days prior to           |          |            |
|        |             |           |           |                     |       |                     | the last                |          |            |
|        |             |           |           |                     |       |                     | trading date            |          |            |
|        |             |           |           |                     |       |                     | of the                  |          |            |
|        |             |           |           |                     |       |                     | relevant                |          |            |
|        |             |           |           |                     |       |                     | Futures                 |          |            |
|        |             |           |           |                     |       |                     | Contract of             |          |            |
|        |             |           |           |                     |       |                     | the                     |          |            |
|        |             |           |           |                     |       |                     | Commodity.              |          |            |
| 282,57 | DE000N      | Gold      | Gold-Spo  | GOLD SPOT           | The   | (i) First           | A date, as              | ICE      | The close  |
| 2      | G7JSA4      |           | t         | \$/OZ               | price | nearby              | determined              | Futures  | of trading |
|        | , J. D. I I |           |           | (Bloomberg          | -     | month               | by the                  | US Softs | on the     |
|        |             |           |           | code: XAU           |       | of                  | Calculation             | 22 20113 | Exchange   |
|        |             |           |           | <crncy>)</crncy>    |       | expiratio           | Agent, in the           |          | Lacitatige |
|        |             |           |           | Cincy- j            |       | n or (ii)           | period                  |          |            |
|        |             |           |           |                     |       | the                 |                         |          |            |
|        |             |           |           |                     |       |                     | commencing on the       |          |            |
|        |             |           |           |                     |       | month               |                         |          |            |
|        | I           | I         | 1         |                     | Ī     | of                  | previous                |          |            |
|        |             |           |           |                     |       |                     | D 11                    |          |            |
|        |             |           |           |                     |       | expiratio<br>n with | Rollover<br>Date (or in |          |            |

|        |        | 1         | 1         |                     | 1     | La         | .1                    | 1        |            |
|--------|--------|-----------|-----------|---------------------|-------|------------|-----------------------|----------|------------|
|        |        |           |           |                     |       | the        | the case of           |          |            |
|        |        |           |           |                     |       | highest    | the first             |          |            |
|        |        |           |           |                     |       | volumes, a |                       |          |            |
|        |        |           |           |                     |       | S          | Date the              |          |            |
|        |        |           |           |                     |       | determin   | Issue Date)           |          |            |
|        |        |           |           |                     |       | ed by      | and ending            |          |            |
|        |        |           |           |                     |       | the        | not less than         |          |            |
|        |        |           |           |                     |       | Calculati  | 5                     |          |            |
|        |        |           |           |                     |       | on         | Commodity             |          |            |
|        |        |           |           |                     |       |            | Business              |          |            |
|        |        |           |           |                     |       | Agent.     |                       |          |            |
|        |        |           |           |                     |       |            | Days prior to         |          |            |
|        |        |           |           |                     |       |            | the last              |          |            |
|        |        |           |           |                     |       |            | trading date          |          |            |
|        |        |           |           |                     |       |            | of the                |          |            |
|        |        |           |           |                     |       |            | relevant              |          |            |
|        |        |           |           |                     |       |            | Futures               |          |            |
|        |        |           |           |                     |       |            | Contract of           |          |            |
|        |        |           |           |                     |       |            | the                   |          |            |
|        |        |           |           |                     |       |            |                       |          |            |
| 282,57 | DE000N | C-11      | Cold Car  | GOLD SPOT           | The   | (i) First  | Commodity. A date, as | ICE      | The close  |
|        |        | Gold      | _         |                     |       |            |                       |          |            |
| 3      | G7JSB2 |           | t         | \$/OZ               | price | nearby     | determined            | Futures  | of trading |
|        |        |           |           | (Bloomberg          |       | month      | by the                | US Softs | on the     |
|        |        |           |           | code: XAU           |       | of         | Calculation           |          | Exchange   |
|        |        |           |           | <crncy>)</crncy>    |       | expiratio  | Agent, in the         |          |            |
|        |        |           |           |                     |       | n or (ii)  | period                |          |            |
|        |        |           |           |                     |       | the        | commencing            |          |            |
|        |        |           |           |                     |       | month      | on the                |          |            |
|        |        |           |           |                     |       | of         | previous              |          |            |
|        |        |           |           |                     |       | expiratio  | Rollover              |          |            |
|        |        |           |           |                     |       | n with     | Date (or in           |          |            |
|        |        |           |           |                     |       | the        | the case of           |          |            |
|        |        |           |           |                     |       | 1          |                       |          |            |
|        |        |           |           |                     |       | highest    | the first             |          |            |
|        |        |           |           |                     |       | volumes, a |                       |          |            |
|        |        |           |           |                     |       | S          | Date the              |          |            |
|        |        |           |           |                     |       | determin   | Issue Date)           |          |            |
|        |        |           |           |                     |       | ed by      | and ending            |          |            |
|        |        |           |           |                     |       | the        | not less than         |          |            |
|        |        |           |           |                     |       | Calculati  | 5                     |          |            |
|        |        |           |           |                     |       | on         | Commodity             |          |            |
|        |        |           |           |                     |       | Agent.     | Business              |          |            |
|        |        |           |           |                     |       | Agent.     | Days prior to         |          |            |
|        |        |           |           |                     |       |            | the last              |          |            |
|        |        |           |           |                     |       |            |                       |          |            |
|        |        |           |           |                     |       |            | trading date          |          |            |
|        |        |           |           |                     |       |            | of the                |          |            |
|        |        |           |           |                     |       |            | relevant              |          |            |
|        |        |           |           |                     |       |            | Futures               |          |            |
|        |        |           |           |                     |       |            | Contract of           |          |            |
|        |        |           |           |                     |       |            | the                   |          |            |
|        |        |           |           |                     |       |            | Commodity.            |          |            |
| 282,57 | DE000N | WTI       | OIL-WTI   | Initially           | The   | (i) First  | A date, as            | ICE      | The close  |
| 4      | G7JSC0 | Crude Oil | -NYME     | Bloomberg           | price | nearby     | determined            | Futures  | of trading |
| 1      | 3/3500 |           | X         | code: CLX3          | 1     | month      | by the                | US Softs | on the     |
|        |        |           | $\Lambda$ | <cmdty> and</cmdty> |       | of         | Calculation           | OB BOILS |            |
|        |        |           |           |                     |       | 1          |                       |          | Exchange   |
|        |        |           |           | after the first     |       | expiratio  | Agent, in the         |          |            |
|        |        |           |           | Rollover Date       |       | n or (ii)  | period .              |          |            |
|        |        |           |           | the Bloomberg       |       | the        | commencing            |          |            |
|        |        |           |           | page referring      |       | month      | on the                |          |            |
|        |        |           |           | to the relevant     |       | of         | previous              |          |            |
|        |        |           |           | Futures             |       | expiratio  | Rollover              |          |            |
|        |        |           |           | Contract.           |       | n with     | Date (or in           |          |            |
|        |        |           |           |                     |       |            | ( ***                 |          |            |

| X code: CLX3 <month 5="" a="" agent,="" agent.="" and="" bloomberg="" calculatio="" calculation="" case="" commencing="" commodity="" contract.="" ending="" expiratio="" expiration="" expiration<="" first="" futures="" highest="" in="" less="" month="" not="" of="" on="" page="" part="" period="" referring="" relevant="" rollover="" solution="" th="" than="" the="" to="" volumes,=""><th></th><th></th><th></th><th></th><th></th><th></th><th>highest<br/>volumes, a<br/>s<br/>determin<br/>ed by</th><th>the first<br/>Rollover<br/>Date the<br/>Issue Date)<br/>and ending</th><th></th><th></th></month>  |        |        |           |       |   |          | highest<br>volumes, a<br>s<br>determin<br>ed by | the first<br>Rollover<br>Date the<br>Issue Date)<br>and ending |          |            |
|--|--------|--------|-----------|-------|---|----------|---|--|----------|------------|
| 282,57   DE000N   WTI   OIL-WTI   Initially   S   Contract of the relevant   Futures   Contract   To the last   Trading date   To    |        |        |           |       |   |          | volumes, a<br>s<br>determin<br>ed by            | Rollover Date the Issue Date) and ending                       |          |            |
| Z82,57   DE000N   WTI   Crude Oil   NYME   S   Rollover Date the Bloomberg page referring to the relevant Futures Contract.   Contract.   S   S   Commodity   Softs   Calculation on Agent.   Calculation on the period commencing on the contract of the last trading date of the relevant Futures Contract of the contract.   Commodity   Commodit   |        |        |           |       |   |          | s<br>determin<br>ed by                          | Date the<br>Issue Date)<br>and ending                          |          |            |
| 282,57   DE000N   WTI   Crude Oil   -NYME   Rollover Date the Bloomberg page referring to the relevant Futures Contract.   Commencing on the Six Private Pri   |        |        |           |       |   |          | determin<br>ed by                               | Issue Date)<br>and ending                                      |          |            |
| 282,57   DE000N   ST   Crude Oil   ST   Crude Oil   ST   Crude Page referring to the relevant Futures Rollover Date the Bloomberg page referring to the relevant Futures Contract.   Commencing on the Exchange   Commencing   Commencing on the Exchange   Commencing on the Excha   |        |        |           |       |   |          | ed by   | and ending   |          |            |
| 282,57   DE000N   Crude Oil   NYME   Bloomberg code: CLX3   CCmdy> and after the first Rollover Date the Bloomberg page referring to the relevant Futures Contract.   Commencing on the Exchange   Commencing on the Exch   |        |        |           |       |   |          |   | and ending   |          |            |
| the Calculati on Commodity Business Days prior to the last trading date of the relevant Futures Contract of the Commodity.    282,57   |        |        |           |       |   |          |   |  |          |            |
| Z82,57   DE000N   WTI   OIL-WTI   Initially   STEAM   Calculation   Commodity   Crude Oil   NYME   Bloomberg   Calculation   Crude Oil   STEAM   Crude Oil   STEAM   Crude Oil   STEAM   Code: CLX3   Cmdty> and after the first   Rollover Date the Bloomberg   page referring to the relevant   Futures   Contract.   Calculation   Calculatio   |        |        |           |       |   |          |   |  |          |            |
| on Commodity Business Days prior to the last trading date of the relevant Futures  Commodity.  DE000N G7JSD8 Crude Oil Crude Oil Crude Oil Agent.  NYME Agent.  OIL-WTI Futures Commodity.  NYME Bloomberg code: CLX3 Cemdty> and after the first Rollover Date the Bloomberg page referring to the relevant Futures  Contract.  No find Commodity Commodity.  A date, as determined by the case of trading on the contract.  Of Calculation Agent, in the period the commencing month of previous expiratio on the of previous expiratio on the of previous expiratio on the determin defined by the determined of previous expiratio on the determined by the determined by the determined by the determined by the ond the case of highest volumes, a Rollover solution on the of previous expiration of the case of highest volumes, a Rollover and ending the ond the stand on Calculati on Commodity agent.  Solution of the relevant for the case of the first volumes, a Rollover and ending the ond the stand on Calculati on Commodity agent.  Solution of Commodity and ending  |        |        |           |       |   |          |   |  |          |            |
| Agent. Business Days prior to the last trading date of the relevant Futures Contract of the Commodity.  DE000N ST G7JSD8  OIL-WTI ST GOIL-WTI ST GO |        |        |           |       |   |          |   |  |          |            |
| Days prior to the last trading date of the relevant Futures Contract of the Commodity.  DE000N WTI OIL-WTI Initially STORMS Crude Oil STORMS Code: CLX3 CCmdty> and after the first Rollover Date the Bloomberg page referring to the relevant Futures Contract.  NYME Rollover Date the Bloomberg page referring to the relevant Futures Contract.  No month of Calculation expiratio Agent, in the previous commencing on the previous expiratio on the first volumes, a Rollover Date (or in the case of the first volumes, a Rollover Date the determine ed by and ending not less than Calculati on Calculati on Calculation specification on the previous expiration on the case of the first volumes, a Rollover Date the determine ed by and ending not less than Calculati on Calculation specification on the previous expiration on the case of the first volumes, a Rollover Date the determine ed by and ending not less than Calculati on Calculation specification on the previous expiration on the case of the first volumes, a Rollover Date the determine ed by and ending not less than Calculati on Commodity Business Days prior to be seen the contract of the Commodity.  Note The close of the close of the first volumes, a Rollover Date (or in the case of the first volumes, a Rollover Date the determine ed by and ending not less than Calculation of the commodity and ending not less than Calculation of the commodity and ending not less than Calculation of the commodity and ending not less than Calculation of the commodity and ending not less than Calculation of the commodity and ending not less than Calculation of the commodity and ending not less than Calculation of the commodity and ending not less than Calculation of the commodity and ending not less than Calculation of the commodity and ending not less than Calculation of the commodity and ending not less than Calculation of the case of the first volumes.                                       |        |        |           |       |   |          |   |  |          |            |
| 282,57 DE000N WTI Crude Oil -NYME A date, as nearby and after the first Rollover Date the Bloomberg page referring to the relevant Futures Contract.  Sommodity.  The close Commodity.  The nearby month of Calculation expiration on the previous Rollover Date (or in the case of highest volumes, a Rollover Date the first volumes, a Rollover Date the Germin ed by the commencing on the previous Rollover Date (or in the the first volumes, a Rollover Date the Bloomberg page referring to the relevant Futures Contract.  The close of trading on the privalence of the relevant to the relevant the period commencing on the previous Rollover Date (or in the the first volumes, a Rollover Date the determin ed by and ending not less than Calculati 5 Commodity Agent.  A date, as determined by the Calculation expiration on the previous Rollover Date (or in the case of the first volumes, a Rollover Date the Issue Date) and ending not less than Calculati 5 Commodity Agent.  A date, as determined by the Calculation expiration aftermined the privalence of trading on the Exchange and the previous Rollover Date (or in the case of the first volumes, a Rollover Date the Bloomberg and ending not less than Calculati 5 Commodity Business Days prior to  |        |        | 1         |       |   |          | Agent.  |  |          |            |
| 282,57 G7JSD8 Crude Oil Crude Oil OIL-WTI Initially The Bloomberg code: CLX3 < Cmdty> and after the first Rollover Date the Bloomberg page referring to the relevant Futures Contract.    Variable of the relevant Futures Contract of the Commodity.   Crude Oil OIL-WTI Initially Price (ode: CLX3 < Cmdty> and after the first Rollover Date the Bloomberg page referring to the relevant Futures Contract.   Contract.   Contract   Contr |        |        |           |       |   |          |   |  |          |            |
| 282,57 G7JSD8 Crude Oil Symbol Symbol Crude Oil Symbol Symbol Crude Oil Symbol Symbol Symbol Crude Oil Symbol |        |        |           |       |   |          |   |  |          |            |
| 282,57 DE000N 5 G7JSD8 Crude Oil NYME A Crude Plate the Bloomberg page referring to the relevant Futures Contract.  Commodity.  The Commodity.  A date, as determined by the Calculation on the period commencing on the previous expiration of highest volumes, a Rollover nate the first volumes, a Rollover Date the determined by the month on the case of highest volumes, a Rollover Date the Getermined by the month on the case of highest volumes, a Rollover Date the Getermined by the month on the period commencing on the previous expiration and the case of highest volumes, a Rollover Date the Getermined by the month on the period commencing on the previous expiration and the case of highest volumes, a Rollover Date the Getermined by the month of the case of the first volumes, a Rollover Date the Getermined by the month on the period commencing on the Exchange and ending not less than Calculation on Commodity Agent.  Something the Commodity Agent.  The Commodity Adams and ending not less than Sample |        |        |           |       |   |          |   | trading date   |          |            |
| 282,57   DE000N   WTI   Crude Oil   NyME   Bloomberg   Code: CLX3   Crudy and after the first   Rollover Date   the Bloomberg page referring to the relevant   Futures   Contract.   |        |        |           |       |   |          |   | of the   |          |            |
| 282,57   DE000N   WTI   Crude Oil   NyME   Bloomberg   Code: CLX3   Crudy and after the first   Rollover Date   the Bloomberg page referring to the relevant   Futures   Contract.   |        |        |           |       |   |          |   | relevant   |          |            |
| 282,57 DE000N G7JSD8 Crude Oil NYME A Condity National State of the Commodity.  NYME A Condity Nand after the first Rollover Date the Bloomberg page referring to the relevant Futures Contract.  Note that Rollover Date the Bloomberg page referring to the relevant Futures Contract.  Note that Rollover Date the Bloomberg page referring to the relevant Futures Contract.  Note that Rollover Date the Bloomberg page referring to the relevant Futures Contract.  Note that Rollover Date the Bloomberg page referring to the relevant of previous Rollover Date (or in the the first volumes, a solution and ending not less than Calculation on the State of Commodity Agent.  Note that Rollover Date the Issue Date) and ending not less than Calculation on Commodity Agent.  Note that Rollover Date the Issue Date) and ending not less than Calculation on Commodity Agent.  Note that Rollover Date the Issue Date) and ending not less than Calculation on Commodity Agent.  Note that Rollover Date the Issue Date) and ending not less than Calculation on Commodity Agent.  Note that Rollover Date the Issue Date) and ending not less than Summer Date the Issue Date) and ending not less than Summer Date the Issue Date) and ending not less than Summer Date the Issue Date) and ending not less than Summer Date the Issue Date) and ending not less than Summer Date the Issue Date) and ending not less than Summer Date the Issue Date) and ending not less than Summer Date the Issue Date) and ending not less than Summer Date the Issue Date) and ending not less than Summer Date the Issue Date) and ending not less than Summer Date the Issue Date) and ending not less than Summer Date the Issue Date) and ending not less than Summer Date the Issue Date) and ending not less than Summer Date the Issue Date Issue Da |        |        |           |       |   |          |   | Futures  |          |            |
| 282,57 DE000N 5 G7JSD8 Crude Oil Crude Oil Crude Oil Crude Oil Oil Crude Oil   |        |        |           |       |   |          |   |  |          |            |
| 282,57 DE000N 5 G7JSD8 Crude Oil Crude Oil Sylvariant after the first Rollover Date the Bloomberg page referring to the relevant Futures Contract.  Sylvariant after the first Rollover Date the Bloomberg page referring to the relevant Futures Contract.  Sylvariant after the first Rollover Date the Bloomberg page referring to the relevant Futures Contract.  Sylvariant after the first Rollover Date the Bloomberg page referring to the relevant Futures Contract.  Sylvariant after the first commencing month on the previous expiratio n with Date (or in the the case of highest volumes, a Rollover s Date the determin ed by and ending the not less than Calculati 5 on Commodity Agent.  Sylvariant after the first reprice of trading on the Exchange of trading the not less than Calculati 5 on Commodity Agent.  Sylvariant after the first reprice of the determined by the Calculati on the Exchange of the Exchange of the first on the case of this previous and ending the not less than Calculati 5 on Commodity Agent.  Sylvariant after the first reprice of trading the price of the determined by the Calculati on the Exchange of the Exchan |        |        |           |       |   |          |   |  |          |            |
| DE000N   G7JSD8   Crude Oil   Crude Oil   Crude Oil   Crude Oil   Sample of trading on the period the Bloomberg page referring to the relevant Futures Contract.   Contract.   Contract   Calculation the determined by the period commencing month of previous expiration in the the case of highest volumes, a determined by the Calculation on the period commencing month of previous expiration in the the case of highest the first volumes, a Rollover bate the determined by the calculation on the period commencing month of previous expiration in with the the case of highest the first volumes, a Rollover bate the determined by the case of highest the first volumes, a Rollover bate the determined by the lissue Date and ending not less than Calculati on Commodity Agent.   Commodity Business Days prior to   Commodity Business Days prior to   Commodity Business   Calculation   Calculation   Commodity Business   Calculation      |        |        |           |       | 1   |          |   |  |          |            |
| Solution   Crude Oil   Crude Oil   Crude Oil   Crude Oil   Crude Oil   Softs   Crude Oil   | 265    |        |           |       |   | <u> </u> | L   |  | 100      | ·          |
| X code: CLX3 <month (or="" 5="" a="" after="" agent.="" and="" bloomberg="" business="" by="" calculati="" calculation="" case="" commencing="" commodity="" contract.="" date="" date)="" days="" determin="" ed="" ending="" expiratio="" first="" futures="" highest="" in="" issue="" less="" month="" n="" not="" of="" on="" page="" period="" previous="" prior="" referring="" relevant="" rollover="" s="" td="" than="" the="" to="" to<="" volumes,="" with=""  =""><td></td><td></td><td></td><td></td><td>•</td><td>I</td><td></td><td></td><td></td><td></td></month>  |        |        |           |       | •   | I        |   |  |          |            |
|  | 5      | G7JSD8 | Crude Oil |       |   | price    |   |  |          | of trading |
| after the first Rollover Date the Bloomberg page referring to the relevant Futures Contract.  Contract.  Agent, in the period commencing month on the expiratio of previous Rollover Rollover Rollover n with the the case of highest volumes, a Rollover s Date the determin ed by and ending the not less than Calculati on Commodity Agent.  Business Days prior to   |        |        |           | X     |   |          |   |  | US Softs | on the     |
| after the first Rollover Date the Bloomberg page referring to the relevant Futures Contract.  Contract.  Agent, in the period commencing on the previous Rollover Solute the first the the case of thighest volumes, a Rollover Solute the determin ed by and ending not less than Calculati on Commodity Agent. Business Days prior to  |        |        |           |       | <cmdty> and</cmdty>   |          | of  | Calculation  |          | Exchange   |
| Rollover Date the Bloomberg page referring to the relevant Futures Contract.  Rollover Date the Bloomberg page referring to the relevant of previous Contract.  Rollover Date the commencing month on the previous Rollover Rollover Rollover Date (or in the first volumes, a Rollover something the first volumes, a Rollover something the determin led by and ending the not less than Calculati 5 on Commodity Agent.  Rollover Rollover Date (or in the first volumes, a Rollover something the not less than Calculati 5 on Commodity Agent. Business Days prior to   |        |        |           |       | after the first   |          | expiratio                                       | Agent, in the  |          |            |
| the Bloomberg page referring to the relevant Futures Contract.  the commencing month on the expiratio Rollover Contract.  n with Date (or in the first volumes, a Rollover s Date the determin ed by and ending the not less than Calculati 5 on Commodity Agent.  Business Days prior to  |        |        |           |       | Rollover Date   |          |   |  |          |            |
| page referring to the relevant Futures Contract.  In with Date (or in the first volumes, a Rollover s Date the determin ed by and ending the not less than Calculati 5 on Commodity Agent.  Business Days prior to   |        |        |           |       |   |          |   |  |          |            |
| to the relevant Futures Contract.  of expiratio n with the the case of highest volumes, a Rollover S Date the determin ed by the not less than Calculati on Commodity Agent.  Business Days prior to   |        |        |           |       |   |          |   |  |          |            |
| Futures Contract.    Putures   expiratio   Rollover   Date (or in the the case of highest the first volumes, a Rollover s   Date the determin ed by and ending the not less than   Calculati on   Commodity   Agent.   Business   Days prior to  |        |        |           |       |   |          |   |  |          |            |
| Contract.  In with the case of the first volumes, a Rollover s Date the determin ed by and ending the not less than Calculati 5 on Commodity Agent.  Business Days prior to  |        |        |           |       |   |          |   |  |          |            |
| the the case of the first volumes, a Rollover s Date the determin ed by and ending the not less than Calculati on Commodity Agent.  the the case of the first volumes, a Rollover s Date the determin issue Date on Commodity and ending the not less than Calculati on Commodity Agent.  Business Days prior to   |        |        |           |       |   |          |   |  |          |            |
| highest volumes, a Rollover s Date the determin led by and ending the not less than Calculati on Commodity Agent. Business Days prior to   |        |        |           |       | Contract.   |          |   |  |          |            |
| volumes, a Rollover s Date the determin Issue Date) ed by and ending the not less than Calculati on Commodity Agent. Business Days prior to  |        |        |           |       |   |          | the   | the case of  |          |            |
| s Date the determin ed by and ending the not less than Calculati 5 on Commodity Agent. Business Days prior to  |        |        |           |       |   |          | highest   | the first  |          |            |
| s Date the determin ed by and ending the not less than Calculati 5 on Commodity Agent. Business Days prior to  |        |        |           |       |   |          | volumes, a                                      | Rollover   |          |            |
| determin ed by and ending the not less than Calculati on Commodity Agent. Business Days prior to   |        |        |           |       |   |          |   |  |          |            |
| ed by and ending the not less than Calculati 5 on Commodity Agent. Business Days prior to  |        |        |           |       |   |          |   |  |          |            |
| the not less than Calculati 5 Commodity Agent. Business Days prior to  |        |        |           |       |   |          |   |  |          |            |
| Calculati 5 on Commodity Agent. Business Days prior to   |        |        |           |       |   |          |   |  |          |            |
| on Commodity Agent. Business Days prior to   |        |        |           |       |   |          |   |  |          |            |
| Agent. Business Days prior to  |        |        |           |       |   |          |   |  |          |            |
| Days prior to  |        |        |           |       |   |          |   |  |          |            |
|  |        |        |           |       |   |          | Agent.  |  |          |            |
|  |        |        |           |       |   |          |   | Days prior to  |          |            |
| the last   |        |        |           |       | 1   |          |   | the last   |          |            |
| trading date   |        |        |           |       |   |          |   | trading date   |          |            |
| of the   |        |        |           |       | 1   |          |   |  |          |            |
| relevant   |        |        |           |       | 1   |          |   |  |          |            |
| Futures  |        |        |           |       | 1   |          |   |  |          |            |
| Contract of  |        |        |           |       | 1   |          |   |  |          |            |
|  |        |        |           |       | 1   |          |   |  |          |            |
| the continue to the continue t |        |        |           |       | 1   |          |   |  |          |            |
| Commodity.   |        | DESSE  | 11.775    | OH    | T   |          | (1) =1  |  | LCE      | - TTI - 1  |
|  | 202 == | DE000N |           |       |   | I        |   |  |          | The close  |
|  | 282,57 |        | Crude Oil | -NYME |   | price    |   |  | Futures  | of trading |
| X code: CLX3 month by the US Softs on the  |        | G7JSE6 | 1         | X     | code: CLX3  |          | month   |  | US Softs | on the     |
|  |        | G7JSE6 |           |       | <cmdtv> and</cmdtv>   |          | of  | Calculation  |          | Exchange   |
|  |        | G7JSE6 |           | I     | ,   | Ī        |   |  | 1        |            |
|  |        | G7JSE6 |           |       |   |          | expiratio                                       | Agent, in the  |          |            |
|  |        | G7JSE6 |           |       | after the first   |          |   |  |          |            |
|  |        | G7JSE6 |           |       | after the first<br>Rollover Date  |          | n or (ii)                                       | period   |          |            |
|  |        | G7JSE6 |           |       | after the first<br>Rollover Date<br>the Bloomberg   |          | n or (ii)<br>the                                | period<br>commencing   |          |            |
| 1 1 1 1 1  |        | G7JSE6 |           |       | after the first<br>Rollover Date<br>the Bloomberg<br>page referring                               |          | n or (ii)<br>the<br>month                       | period<br>commencing<br>on the                                 |          |            |
| 1  |        | G7JSE6 |           |       | after the first<br>Rollover Date<br>the Bloomberg<br>page referring<br>to the relevant            |          | n or (ii)<br>the<br>month<br>of                 | period<br>commencing<br>on the<br>previous                     |          |            |
| Contract. n with Date (or in   |        | G7JSE6 |           |       | after the first<br>Rollover Date<br>the Bloomberg<br>page referring<br>to the relevant<br>Futures |          | n or (ii)<br>the<br>month<br>of<br>expiratio    | period<br>commencing<br>on the<br>previous<br>Rollover         |          |            |

|        |         |           |          | -                   | -     |            | -             |          |            |
|--------|---------|-----------|----------|---------------------|-------|------------|---------------|----------|------------|
|        |         |           |          |                     |       | the        | the case of   |          |            |
|        |         |           |          |                     |       | highest    | the first     |          |            |
|        |         |           |          |                     |       | volumes, a |               |          |            |
|        |         |           |          |                     |       | s          | Date the      |          |            |
|        |         |           |          |                     |       | determin   | Issue Date)   |          |            |
|        |         |           |          |                     |       | ed by      | and ending    |          |            |
|        |         |           |          |                     |       | the        | not less than |          |            |
|        |         |           |          |                     |       | Calculati  | 5             |          |            |
|        |         |           |          |                     |       | on         | Commodity     |          |            |
|        |         |           |          |                     |       |            |               |          |            |
|        |         |           |          |                     |       | Agent.     | Business      |          |            |
|        |         |           |          |                     |       |            | Days prior to |          |            |
|        |         |           |          |                     |       |            | the last      |          |            |
|        |         |           |          |                     |       |            | trading date  |          |            |
|        |         |           |          |                     |       |            | of the        |          |            |
|        |         |           |          |                     |       |            | relevant      |          |            |
|        |         |           |          |                     |       |            | Futures       |          |            |
|        |         |           |          |                     |       |            | Contract of   |          |            |
|        |         |           |          |                     |       |            | the           |          |            |
|        |         |           |          |                     |       |            |               |          |            |
| 202.55 | DECOCAL | 11 //E7   | OH 17.77 | T 1,1 11            | m'    | (1) 51     | Commodity.    | LOE      | TDI 1      |
| 282,57 |         | WTI       | OIL-WTI  | •                   | The   | (i) First  | A date, as    | ICE      | The close  |
| 7      | G7JSF3  | Crude Oil | -NYME    | Bloomberg           | price | nearby     | determined    | Futures  | of trading |
|        |         |           | X        | code: CLX3          |       | month      | by the        | US Softs | on the     |
|        |         |           |          | <cmdty> and</cmdty> |       | of         | Calculation   |          | Exchange   |
|        |         |           |          | after the first     |       | expiratio  | Agent, in the |          |            |
|        |         |           |          | Rollover Date       |       | n or (ii)  | period        |          |            |
|        |         |           |          | the Bloomberg       |       | the        | commencing    |          |            |
|        |         |           |          | page referring      |       | month      | on the        |          |            |
|        |         |           |          | to the relevant     |       | of         | previous      |          |            |
|        |         |           |          | Futures             |       | expiratio  | Rollover      |          |            |
|        |         |           |          | Contract.           |       | n with     |               |          |            |
|        |         |           |          | Contract.           |       |            | Date (or in   |          |            |
|        |         |           |          |                     |       | the        | the case of   |          |            |
|        |         |           |          |                     |       | highest    | the first     |          |            |
|        |         |           |          |                     |       | volumes, a |               |          |            |
|        |         |           |          |                     |       | S          | Date the      |          |            |
|        |         |           |          |                     |       | determin   | Issue Date)   |          |            |
|        |         |           |          |                     |       | ed by      | and ending    |          |            |
|        |         |           |          |                     |       | the        | not less than |          |            |
|        |         |           |          |                     |       | Calculati  | 5             |          |            |
|        |         |           |          |                     |       | on         | Commodity     |          |            |
|        |         |           |          |                     |       | Agent.     | Business      |          |            |
|        |         |           |          |                     |       | Agent.     | Days prior to |          |            |
|        |         |           |          |                     |       |            | the last      |          |            |
|        |         |           |          |                     |       |            |               |          |            |
|        |         |           |          |                     |       |            | trading date  |          |            |
|        |         |           |          |                     |       |            | of the        |          |            |
|        |         |           |          |                     |       |            | relevant      |          |            |
|        |         |           |          |                     |       |            | Futures       |          |            |
|        |         |           |          |                     |       |            | Contract of   |          |            |
|        |         |           |          |                     |       |            | the           |          |            |
|        |         |           |          |                     |       |            | Commodity.    |          |            |
| 282,57 | DE000N  | WTI       | OIL-WTI  | Initially           | The   | (i) First  | A date, as    | ICE      | The close  |
| 8      | G7JSG1  | Crude Oil | -NYME    | Bloomberg           | price | nearby     | determined    | Futures  | of trading |
| ľ      | 3/3001  |           | X        | code: CLX3          | 1     | month      | by the        | US Softs | on the     |
|        |         |           | A        | <cmdty> and</cmdty> |       | of         | Calculation   | OB BOILS |            |
|        |         |           |          | after the first     |       |            |               |          | Exchange   |
|        |         |           |          |                     |       | expiratio  | Agent, in the |          |            |
|        |         |           |          | Rollover Date       |       | n or (ii)  | period .      |          |            |
|        |         |           |          | the Bloomberg       |       | the        | commencing    |          |            |
|        |         |           |          | page referring      |       | month      | on the        |          |            |
|        |         |           |          | to the relevant     |       | of         | previous      |          |            |
|        |         |           |          | Futures             |       | expiratio  | Rollover      |          |            |
|        |         |           |          | Contract.           |       | n with     | Date (or in   |          |            |
|        |         |           |          | <u> </u>            |       |            | ( = ===       |          |            |

|        |         |           |          |                     | -     |            | -             |          |            |
|--------|---------|-----------|----------|---------------------|-------|------------|---------------|----------|------------|
|        |         |           |          |                     |       | the        | the case of   |          |            |
|        |         |           |          |                     |       | highest    | the first     |          |            |
|        |         |           |          |                     |       | volumes, a |               |          |            |
|        |         |           |          |                     |       | s          | Date the      |          |            |
|        |         |           |          |                     |       | determin   | Issue Date)   |          |            |
|        |         |           |          |                     |       | ed by      | and ending    |          |            |
|        |         |           |          |                     |       | the        | not less than |          |            |
|        |         |           |          |                     |       | Calculati  | 5             |          |            |
|        |         |           |          |                     |       | on         | Commodity     |          |            |
|        |         |           |          |                     |       |            |               |          |            |
|        |         |           |          |                     |       | Agent.     | Business      |          |            |
|        |         |           |          |                     |       |            | Days prior to |          |            |
|        |         |           |          |                     |       |            | the last      |          |            |
|        |         |           |          |                     |       |            | trading date  |          |            |
|        |         |           |          |                     |       |            | of the        |          |            |
|        |         |           |          |                     |       |            | relevant      |          |            |
|        |         |           |          |                     |       |            | Futures       |          |            |
|        |         |           |          |                     |       |            | Contract of   |          |            |
|        |         |           |          |                     |       |            | the           |          |            |
|        |         |           |          |                     |       |            |               |          |            |
| 202.55 | DECOCCE | 11 //E7   | OH 17.77 | T 1,1 11            | m'    | (1) 51     | Commodity.    | LOE      | TDI 1      |
| 282,57 |         | WTI       | OIL-WTI  | •                   | The   | (i) First  | A date, as    | ICE      | The close  |
| 9      | G7JSH9  | Crude Oil | -NYME    | Bloomberg           | price | nearby     | determined    | Futures  | of trading |
|        |         |           | X        | code: CLX3          |       | month      | by the        | US Softs | on the     |
|        |         |           |          | <cmdty> and</cmdty> |       | of         | Calculation   |          | Exchange   |
|        |         |           |          | after the first     |       | expiratio  | Agent, in the |          |            |
|        |         |           |          | Rollover Date       |       | n or (ii)  | period        |          |            |
|        |         |           |          | the Bloomberg       |       | the        | commencing    |          |            |
|        |         |           |          | page referring      |       | month      | on the        |          |            |
|        |         |           |          | to the relevant     |       | of         | previous      |          |            |
|        |         |           |          | Futures             |       | expiratio  | Rollover      |          |            |
|        |         |           |          |                     |       |            |               |          |            |
|        |         |           |          | Contract.           |       | n with     | Date (or in   |          |            |
|        |         |           |          |                     |       | the        | the case of   |          |            |
|        |         |           |          |                     |       | highest    | the first     |          |            |
|        |         |           |          |                     |       | volumes, a |               |          |            |
|        |         |           |          |                     |       | s          | Date the      |          |            |
|        |         |           |          |                     |       | determin   | Issue Date)   |          |            |
|        |         |           |          |                     |       | ed by      | and ending    |          |            |
|        |         |           |          |                     |       | the        | not less than |          |            |
|        |         |           |          |                     |       | Calculati  | 5             |          |            |
|        |         |           |          |                     |       | on         | Commodity     |          |            |
|        |         |           |          |                     |       |            | Business      |          |            |
|        |         |           |          |                     |       | Agent.     |               |          |            |
|        |         |           |          |                     |       |            | Days prior to |          |            |
|        |         |           |          |                     |       |            | the last      |          |            |
|        |         |           |          |                     |       |            | trading date  |          |            |
|        |         |           |          |                     |       |            | of the        |          |            |
|        |         |           |          |                     |       |            | relevant      |          |            |
|        |         |           |          |                     |       |            | Futures       |          |            |
|        |         |           |          |                     |       |            | Contract of   |          |            |
|        |         |           |          |                     |       |            | the           |          |            |
|        |         |           |          |                     |       |            | Commodity.    |          |            |
| 282,58 | DE000N  | WTI       | OIL-WTI  | Initially           | The   | (i) First  | A date, as    | ICE      | The close  |
| 0      | G7JSJ5  | Crude Oil | -NYME    | Bloomberg           | price | nearby     | determined    | Futures  | of trading |
| ľ      | Q\1913  | Crude Oil |          |                     | price |            |               |          |            |
|        |         |           | X        | code: CLX3          |       | month      | by the        | US Softs | on the     |
|        |         |           |          | <cmdty> and</cmdty> |       | of         | Calculation   |          | Exchange   |
|        |         |           |          | after the first     |       | expiratio  | Agent, in the |          |            |
|        |         |           |          | Rollover Date       |       | n or (ii)  | period        |          |            |
|        |         |           |          | the Bloomberg       |       | the        | commencing    |          |            |
|        |         |           |          | page referring      |       | month      | on the        |          |            |
|        |         |           |          | to the relevant     |       | of         | previous      |          |            |
|        |         |           |          | Futures             |       | expiratio  | Rollover      |          |            |
|        |         |           |          | Contract.           |       | n with     | Date (or in   |          |            |
|        |         |           |          | Commut.             |       | -1 17 1611 | 2 400 (01 111 |          |            |

|        |           |           |          |                     | -     |            | -             |          |            |
|--------|-----------|-----------|----------|---------------------|-------|------------|---------------|----------|------------|
|        |           |           |          |                     |       | the        | the case of   |          |            |
|        |           |           |          |                     |       | highest    | the first     |          |            |
|        |           |           |          |                     |       | volumes, a |               |          |            |
|        |           |           |          |                     |       | s          | Date the      |          |            |
|        |           |           |          |                     |       | determin   | Issue Date)   |          |            |
|        |           |           |          |                     |       | ed by      | and ending    |          |            |
|        |           |           |          |                     |       | the        | not less than |          |            |
|        |           |           |          |                     |       | Calculati  | 5             |          |            |
|        |           |           |          |                     |       | on         | Commodity     |          |            |
|        |           |           |          |                     |       |            |               |          |            |
|        |           |           |          |                     |       | Agent.     | Business      |          |            |
|        |           |           |          |                     |       |            | Days prior to |          |            |
|        |           |           |          |                     |       |            | the last      |          |            |
|        |           |           |          |                     |       |            | trading date  |          |            |
|        |           |           |          |                     |       |            | of the        |          |            |
|        |           |           |          |                     |       |            | relevant      |          |            |
|        |           |           |          |                     |       |            | Futures       |          |            |
|        |           |           |          |                     |       |            | Contract of   |          |            |
|        |           |           |          |                     |       |            | the           |          |            |
|        |           |           |          |                     |       |            |               |          |            |
| 202.50 | DECOCAL   | 11 //E7   | OH 17.77 | T 1,1 11            | m'    | (1) 51     | Commodity.    | LOE      | TDI 1      |
|        | DE000N    | WTI       | OIL-WTI  |                     | The   | (i) First  | A date, as    | ICE      | The close  |
| 1      | G7JSK3    | Crude Oil | -NYME    | Bloomberg           | price | nearby     | determined    | Futures  | of trading |
|        |           |           | X        | code: CLX3          |       | month      | by the        | US Softs | on the     |
|        |           |           |          | <cmdty> and</cmdty> |       | of         | Calculation   |          | Exchange   |
|        |           |           |          | after the first     |       | expiratio  | Agent, in the |          | _          |
|        |           |           |          | Rollover Date       |       | n or (ii)  | period        |          |            |
|        |           |           |          | the Bloomberg       |       | the        | commencing    |          |            |
|        |           |           |          | page referring      |       | month      | on the        |          |            |
|        |           |           |          | to the relevant     |       | of         | previous      |          |            |
|        |           |           |          | Futures             |       | expiratio  | Rollover      |          |            |
|        |           |           |          | Contract.           |       | n with     |               |          |            |
|        |           |           |          | Contract.           |       |            | Date (or in   |          |            |
|        |           |           |          |                     |       | the        | the case of   |          |            |
|        |           |           |          |                     |       | highest    | the first     |          |            |
|        |           |           |          |                     |       | volumes, a |               |          |            |
|        |           |           |          |                     |       | S          | Date the      |          |            |
|        |           |           |          |                     |       | determin   | Issue Date)   |          |            |
|        |           |           |          |                     |       | ed by      | and ending    |          |            |
|        |           |           |          |                     |       | the        | not less than |          |            |
|        |           |           |          |                     |       | Calculati  | 5             |          |            |
|        |           |           |          |                     |       | on         | Commodity     |          |            |
|        |           |           |          |                     |       | Agent.     | Business      |          |            |
|        |           |           |          |                     |       | Agent.     | Days prior to |          |            |
|        |           |           |          |                     |       |            | the last      |          |            |
|        |           |           |          |                     |       |            |               |          |            |
|        |           |           |          |                     |       |            | trading date  |          |            |
|        |           |           |          |                     |       |            | of the        |          |            |
|        |           |           |          |                     |       |            | relevant      |          |            |
|        |           |           |          |                     |       |            | Futures       |          |            |
|        |           |           |          |                     |       |            | Contract of   |          |            |
|        |           |           |          |                     |       |            | the           |          |            |
|        |           |           |          |                     |       |            | Commodity.    |          |            |
| 282,58 | DE000N    | WTI       | OIL-WTI  | Initially           | The   | (i) First  | A date, as    | ICE      | The close  |
| 2      | G7JSL1    | Crude Oil | -NYME    | Bloomberg           | price | nearby     | determined    | Futures  | of trading |
| 1      | O / JOL I |           | X        | code: CLX3          | 1     | month      | by the        | US Softs | on the     |
|        |           |           | A        | <cmdty> and</cmdty> |       | of         | Calculation   | OB BOILS |            |
|        |           |           |          | after the first     |       |            |               |          | Exchange   |
|        |           |           |          |                     |       | expiratio  | Agent, in the |          |            |
|        |           |           |          | Rollover Date       |       | n or (ii)  | period .      |          |            |
|        |           |           |          | the Bloomberg       |       | the        | commencing    |          |            |
|        |           |           |          | page referring      |       | month      | on the        |          |            |
|        |           |           |          | to the relevant     |       | of         | previous      |          |            |
|        |           |           |          | Futures             |       | expiratio  | Rollover      |          |            |
|        |           |           |          | Contract.           |       | n with     | Date (or in   |          |            |
|        |           |           |          |                     |       |            |               |          |            |

|        |        |           |         |                     |       | the        | the case of                         |          |            |
|--------|--------|-----------|---------|---------------------|-------|------------|-------------------------------------|----------|------------|
|        |        |           |         |                     |       | highest    | the first                           |          |            |
|        |        |           |         |                     |       | volumes, a | Rollover                            |          |            |
|        |        |           |         |                     |       | s          | Date the                            |          |            |
|        |        |           |         |                     |       | determin   | Issue Date)                         |          |            |
|        |        |           |         |                     |       | ed by      | and ending                          |          |            |
|        |        |           |         |                     |       | the        | not less than                       |          |            |
|        |        |           |         |                     |       | Calculati  | 5                                   |          |            |
|        |        |           |         |                     |       |            |                                     |          |            |
|        |        |           |         |                     |       | on         | Commodity                           |          |            |
|        |        |           |         |                     |       | Agent.     | Business                            |          |            |
|        |        |           |         |                     |       |            | Days prior to                       |          |            |
|        |        |           |         |                     |       |            | the last                            |          |            |
|        |        |           |         |                     |       |            | trading date                        |          |            |
|        |        |           |         |                     |       |            | of the                              |          |            |
|        |        |           |         |                     |       |            | relevant                            |          |            |
|        |        |           |         |                     |       |            | Futures                             |          |            |
|        |        |           |         |                     |       |            | Contract of                         |          |            |
|        |        |           |         |                     |       |            | the                                 |          |            |
|        |        |           |         |                     |       |            |                                     |          |            |
| 202 == | DECOC  | 11.775    | OH      |                     | m'    | /D =1      | Commodity.                          | LOE      | mi i       |
| 282,58 |        | WTI       | OIL-WTI |                     | The   | (i) First  | A date, as                          | ICE      | The close  |
| 3      | G7JSM9 | Crude Oil | -NYME   | Bloomberg           | price | nearby     | determined                          | Futures  | of trading |
|        |        |           | X       | code: CLX3          |       | month      | by the                              | US Softs | on the     |
|        |        |           |         | <cmdty> and</cmdty> |       | of         | Calculation                         |          | Exchange   |
|        |        |           |         | after the first     |       | expiratio  | Agent, in the                       |          |            |
|        |        |           |         | Rollover Date       |       | n or (ii)  | period                              |          |            |
|        |        |           |         | the Bloomberg       |       | the        | commencing                          |          |            |
|        |        |           |         | page referring      |       | month      | on the                              |          |            |
|        |        |           |         | to the relevant     |       | of         | previous                            |          |            |
|        |        |           |         |                     |       |            |                                     |          |            |
|        |        |           |         | Futures             |       | expiratio  | Rollover                            |          |            |
|        |        |           |         | Contract.           |       | n with     | Date (or in                         |          |            |
|        |        |           |         |                     |       | the        | the case of                         |          |            |
|        |        |           |         |                     |       | highest    | the first                           |          |            |
|        |        |           |         |                     |       | volumes, a | Rollover                            |          |            |
|        |        |           |         |                     |       | s          | Date the                            |          |            |
|        |        |           |         |                     |       | determin   | Issue Date)                         |          |            |
|        |        |           |         |                     |       | ed by      | and ending                          |          |            |
|        |        |           |         |                     |       | the        | not less than                       |          |            |
|        |        |           |         |                     |       |            |                                     |          |            |
|        |        |           |         |                     |       | Calculati  | 5                                   |          |            |
|        |        |           |         |                     |       | on         | Commodity                           |          |            |
|        |        |           |         |                     |       | Agent.     | Business                            |          |            |
|        |        |           |         |                     |       |            | Days prior to                       |          |            |
|        |        |           |         |                     |       |            | the last                            |          |            |
|        |        |           |         |                     |       |            | trading date                        |          |            |
|        |        |           |         |                     |       |            | of the                              |          |            |
|        |        |           |         |                     |       |            | relevant                            |          |            |
|        |        |           |         |                     |       |            | Futures                             |          |            |
|        |        |           |         |                     |       |            | Contract of                         |          |            |
|        |        |           |         |                     |       |            | the                                 |          |            |
|        |        |           |         |                     |       |            |                                     |          |            |
| 202.50 | DEGGGT | N/DI      | OH W    | T ',' 11            | TP1   | (') E'     | Commodity.                          | ICE      | TP1 1      |
| 282,58 | DE000N | WTI       |         | Initially           | The   | (i) First  | A date, as                          | ICE      | The close  |
| 4      | G7JSN7 | Crude Oil | -NYME   | Bloomberg           | price | nearby     | determined                          | Futures  | of trading |
|        |        |           | X       | code: CLX3          |       | month      | by the                              | US Softs | on the     |
|        |        |           |         | <cmdty> and</cmdty> |       | of         | Calculation                         |          | Exchange   |
|        |        |           |         | after the first     |       | expiratio  | Agent, in the                       |          | 6          |
|        |        |           |         | Rollover Date       |       | n or (ii)  | period                              |          |            |
|        |        |           |         | the Bloomberg       |       | the        | commencing                          |          |            |
|        | l      | 1         |         | page referring      |       | month      | on the                              |          |            |
| 1      |        |           |         | LUGS COLUMN         |       | пиони      | on աւ                               | 1        |            |
|        |        |           |         |                     |       |            | provious                            |          |            |
|        |        |           |         | to the relevant     |       | of         | previous                            |          |            |
|        |        |           |         |                     |       |            | previous<br>Rollover<br>Date (or in |          |            |

|         |   |               |              |            |        | the highest volumes, a s determin ed by the Calculati on Agent. | the case of the first Rollover Date the Issue Date) and ending not less than 5 Commodity Business Days prior to the last trading date of the relevant Futures Contract of the Commodity. |  |        |
|---------|---|---------------|--------------|------------|--------|---|--|--|--------|
| 28      | Fund Certi  | ficate Provi  | sions        |            | Not Ap | plicable  |  |  | $\neg$ |
|         |   |               |              |            |        |   |  |  |        |
| 29      | Governmen   | nt Bond Cer   | tificate Pro | ovisions   | Not Ap | plicable  |  |  |        |
| 30      | Other Bond  | d Certificate | Provision    | s          | Not Ap | plicable  |  |  |        |
| 31      | Indox Euto  | nos Cortifica | to Duovisio  | \ <b>\</b> | Not Am | mliaahla  |  |  |        |
| 31      | Index Futures Certificate Provisions Not Applicable |               |              |            |        |   |  |  |        |
| Signed  | on behalf of  | the Issuer:   |              |            |        |   |  |  |        |
| Ву:     |   |               |              |            |        |   |  |  |        |
| Duly aı | uthorised   |               |              |            |        |   |  |  |        |
| By:     |   |               |              |            |        |   |  |  |        |
| Duly at | uthorised   |               |              |            |        |   |  |  |        |

#### PART B - OTHER INFORMATION

#### 1 LISTING

| (i)   | Listing:  | The Freiverkehr section of the Frankfurt Stock Exchange   |
|-------|---|---|
| (ii)  | Admission to trading:                                       | Application is expected to be made by the Issuer (or on its behalf) for the Certificates to be admitted to trading on The Freiverkehr section of the Frankfurt Stock Exchange |
| (iii) | Estimate of total expenses related to admission to trading: | EUR 500   |

#### 2 RATINGS

| Ratings: The Certificates to be issued will not be rated |
|--|
|--|

## 3 INTERESTS OF NATURAL AND LEGAL PERSONS INVOLVED IN THE ISSUE

Save for any fees payable to the Dealers, so far as the Issuer is aware, no person involved in the offer of the Certificates has an interest material to the offer. The Dealers and their affiliates have engaged, and may in the future engage, in investment banking and/or commercial banking transactions with, and may perform other services for, the Issuer and its affiliates in the ordinary course of business.

## 4 REASONS FOR THE OFFER, ESTIMATED NET PROCEEDS AND TOTAL EXPENSES

| (i) Reasons for the offer     | See "Use of Proceeds" wording in Base Prospectus     |
|-------------------------------|--|
| (ii) Estimated total expenses | The terms of the Public Offer do not provide for any |
|                               | expenses and/or taxes to be charged to any purchaser |
|                               | of the Certificates                                  |

#### 5 INFORMATION CONCERNING THE UNDERLYING

| Underlying    | Information on the underlying can be obtained from the below specified source.  |
|---------------|---|
| WTI Crude Oil | The return on the Certificates is linked to the performance of the underlying Commodity. The price of the Commodity may go down as well as up throughout the life of the Certificates. Fluctuations in the price of the Commodity will affect the value of the Certificates. Information and details of the past and future performance of the Commodity and its volatility can be obtained from Bloomberg (Bloomberg code: CL1 < Cmdty>) |
| Gold          | The return on the Certificates is linked to the performance of the underlying Commodity. The price of the Commodity may go down as well as up throughout the life of the Certificates. Fluctuations in the price of the Commodity will affect the value of the Certificates. Information and details of the past and future performance of the  |

|                 | Commodity and its volatility can be obtained from Bloomberg (Bloomberg code: XAU <crncy>)</crncy>   |
|-----------------|---|
| Brent Crude Oil | The return on the Certificates is linked to the performance of the underlying Commodity. The price of the Commodity may go down as well as up throughout the life of the Certificates. Fluctuations in the price of the Commodity will affect the value of the Certificates. Information and details of the past and future performance of the Commodity and its volatility can be obtained from Bloomberg (Bloomberg code: CO1 < Cmdty>) |

#### **6 POST-ISSUANCE INFORMATION**

Post-issuance information will be made available on the website of the Issuer www.ingmarkets.de, www.ingsprinters.nl, www.ingturbo.fr or any succesor website. There is no assurance that the Issuer will continue to provide such information for the life of the Certificates.

## 7 OPERATIONAL INFORMATION

| (i)ISIN Code | (ii) Common Code | (iii) Other relevant code |
|--------------|------------------|---------------------------|
| DE000NG7JR24 | Not Applicable   | NG7JR2                    |
| DE000NG7JR32 | Not Applicable   | NG7JR3                    |
| DE000NG7JR40 | Not Applicable   | NG7JR4                    |
| DE000NG7JR57 | Not Applicable   | NG7JR5                    |
| DE000NG7JR65 | Not Applicable   | NG7JR6                    |
| DE000NG7JR73 | Not Applicable   | NG7JR7                    |
| DE000NG7JR81 | Not Applicable   | NG7JR8                    |
| DE000NG7JR99 | Not Applicable   | NG7JR9                    |
| DE000NG7JSA4 | Not Applicable   | NG7JSA                    |
| DE000NG7JSB2 | Not Applicable   | NG7JSB                    |
| DE000NG7JSC0 | Not Applicable   | NG7JSC                    |
| DE000NG7JSD8 | Not Applicable   | NG7JSD                    |
| DE000NG7JSE6 | Not Applicable   | NG7JSE                    |
| DE000NG7JSF3 | Not Applicable   | NG7JSF                    |
| DE000NG7JSG1 | Not Applicable   | NG7JSG                    |
| DE000NG7JSH9 | Not Applicable   | NG7JSH                    |
| DE000NG7JSJ5 | Not Applicable   | NG7JSJ                    |
| DE000NG7JSK3 | Not Applicable   | NG7JSK                    |
| DE000NG7JSL1 | Not Applicable   | NG7JSL                    |
| DE000NG7JSM9 | Not Applicable   | NG7JSM                    |
| DE000NG7JSN7 | Not Applicable   | NG7JSN                    |

| (iv) | Name of the Principal Certificate Agent | ING Bank N.V. |
|------|---|---------------|
|      |   |               |

## 8 DISTRIBUTION

| (i) | Details of any clearing system other than Euroclear | Clearstream Banking AG, Eschborn |
|-----|---|----------------------------------|
|     | Netherlands:  |                                  |

| (a) details of the appropriate clearing code/number:   | Not Applicable  |
|--|---|
| (b) further details regarding the form of Certificates | European Certificates   |
| (ii) Non-exempt offer:                                 | An offer of Certificates may be made by the Issuer other than pursuant to Article 3(2) of the Prospectus Regulation in Germany, France, the Netherlands, Belgium, Spain and Italy (each a "Public Offer Jurisdiction" and together the "Public Offer Jurisdictions"). |
| (iii) Prohibition of Sales to EEA Retail Investors:    | Not Applicable  |
| (iv) Prohibition of Sales to UK Retail Investors:      | Applicable  |
| (v) Prohibition of Sales to Belgian Consumers:         | Not Applicable  |

## 9 GENERAL

| Conditions to which the offer is subject: | There is no subscription period and the offer of         |
|---|--|
|   | Certificates is not subject to any conditions imposed by |
|   | the Issuer.  |

## **ANNEX**

ISSUE SPECIFIC SUMMARY OF THE CERTIFICATES AND THE KEY INFORMATION DOCUMENT ARE AVAILABLE ON THE WEBITES OF THE ISSUER WWW.INGMARKETS.DE, WWW.INGSPRINTERS.NL AND WWW.INGTURBOS.FR