



Date: November 09, 2020

TO: MIAX PEARL Equities Members

FROM: MIAX PEARL Equities Listings Department

Re: iPath Series B Carbon ETN - GRN

MIAX PEARL, LLC (“Exchange”) commenced trading of equity securities on September 25, 2020 followed by a security-by-security phase-in period. This Product Circular is being issued to advise you that the following security has been approved for trading pursuant to unlisted trading privileges (“UTP”) on the Exchange as a UTP Derivative Security pursuant to Exchange Rule 2900, and will begin trading on MIAX PEARL during the phase-in period. See the [Exchange’s Website](#) for the phase-in schedule.

Security (the “Fund”)

Symbol

iPath® Series B Carbon ETN

GRN

Issuer/Trust: Barclays Bank PLC

Issuer Website: <https://www.ipathetn.com/>

Primary Listing Exchange: NYSE Arca

The purpose of this Product Circular is to outline various rules and policies that will be applicable to trading in this new product pursuant to the Exchange’s unlisted trading privileges, as well as to provide certain characteristics and features of the Shares. For a more complete description of the Issuer, the Shares and the underlying market instruments or indexes, visit the Issuer Website, consult the Prospectus available on the Issuer Website, examine the Issuer Registration Statement or review the most current information bulletin issued by the Primary Listing Exchange. The Issuer Website, the Prospectus, the Issuer Registration Statement and the Primary Exchange Circular are hereafter collectively referred to as the “Issuer Disclosure Materials.”

Background Information on the Fund

The iPath® Series B Carbon ETNs (the “ETNs”) are designed to provide exposure to the Barclays Global Carbon II TR USD Index (the “Index”). The ETNs are riskier than ordinary unsecured debt securities and have no principal protection. The ETNs are unsecured debt obligations of the issuer, Barclays Bank PLC, and are not, either directly or indirectly, an obligation of or guaranteed by any third party. Any payment to be made on the ETNs, including any payment at maturity or upon redemption, depends on the ability of Barclays Bank PLC to satisfy its obligations as they come due. An investment in the ETNs involves significant risks, including possible loss of principal, and may not be suitable for all investors.

The objective of the Index is to provide exposure to the price of carbon as measured by the return of futures contracts on carbon emissions credits from two of the world's major emissions-related mechanisms (the "mechanisms" and each a "mechanism"). The mechanisms currently included in the Index are the European Union Emission Trading Scheme ("EU ETS") and the Kyoto Protocol's Clean Development Mechanism (the "CDM"). The Index is composed of allocations in futures contracts on a carbon emissions credit from each mechanism included in the Index (each such contract, an "Index Component"). The Index Components currently included in the Index are futures contracts that trade on the ICE Futures Europe exchange. The allocations of the Index to the Index Components are adjusted on an annual basis. While the weights may fluctuate over time, since the inception of the Index, the weight assigned to futures contracts associated with the EU ETS has been greater than 99.9%, and the weight assigned to futures contracts associated with the CDM has been less than 0.1%. Accordingly, the Index is heavily weighted toward futures contracts on carbon emission credits in the European Union.

While the Index Components are denominated in euros, the Index is calculated in U.S. dollars. The performance of the Index for any period reflects the weighted performance of the Index Components during that period, as adjusted by the performance of the euro/U.S. dollar exchange rate over that period, and, because the Index is a "total return" index, the return over that period that corresponds to the weekly announced interest rate for specified 3-month U.S. Treasury bills. The Index is maintained and calculated by Barclays Bank PLC (in such capacity, the "index sponsor"). The closing level of the Index will be calculated on each index business day and is reported by Bloomberg L.P. or a successor via the facilities of the Consolidated Tape Association under the ticker symbol "BXIIGC2T".

The ETNs are medium-term notes that are senior unsecured debt obligations of Barclays Bank PLC. The ETNs will be issued in denominations of \$50. The return on the ETNs is linked to the performance of the Index.

We have listed the ETNs on NYSE Arca. If an active secondary market in the ETNs exists, we expect that investors will purchase and sell the ETNs primarily in the secondary market.

THE ETNS OFFER EXPOSURE TO FUTURES CONTRACTS AND NOT DIRECT EXPOSURE TO CARBON EMISSIONS CREDITS OR THEIR SPOT PRICES. THESE FUTURES CONTRACTS WILL NOT TRACK THE PERFORMANCE OF CARBON EMISSIONS CREDITS. In addition, the nature of the futures market for carbon emissions credits has historically resulted in a cost to maintain a rolling position in the futures contracts underlying the Index. As a result, the level of the Index, which tracks a rolling position in specified futures contracts, may experience significant declines as a result of these costs, known as roll costs, especially over a longer period. The price of carbon emissions credits will perform differently than the Index and, in certain cases, may have positive performance during periods where the Index is experiencing negative performance. In turn, an investment in the ETNs may experience a significant decline in value over time, the risk of which increases the longer that the ETNs are held. For more information, see "Risk Factors" beginning on page PS-12 of this pricing supplement and the historical performance of the Index presented below in this pricing supplement.

The ETNs may not be suitable for all investors and should be used only by investors with the sophistication and knowledge necessary to understand the risks inherent in the Index, the futures contracts that the Index tracks and investments in carbon emissions credits as an asset class generally. Investors should consult with their broker or financial advisor when making an investment decision and to evaluate their

investment in the ETNs and should actively manage and monitor their investments in the ETNs throughout each trading day.

The Index

The objective of the Index is to provide exposure to the price of carbon as measured by the return of futures contracts on carbon emissions credits from two of the world's major emissions-related mechanisms (the "mechanisms" and each a "mechanism"). The mechanisms currently included in the Index are the European Union Emission Trading Scheme ("EU ETS") and the Kyoto Protocol's Clean Development Mechanism (the "CDM"). The Index is composed of allocations in futures contracts on a carbon emissions credit from each mechanism included in the Index (each such contract, an "Index Component"). The Index Components currently included in the Index are futures contracts that trade on the ICE. The allocations of the Index to the Index Components are adjusted on an annual basis (each allocation, expressed as a percentage of the aggregate allocations of the Index in any period, being referred to herein as a "weight"). We refer to this process herein as "rebalancing" or "reweighting." While the weights may fluctuate over time, since the inception of the Index, the weight assigned to futures contracts associated with the EU ETS has been greater than 99.9%, and the weight assigned to futures contracts associated with the CDM has been less than 0.1%. Accordingly, the Index is heavily weighted toward futures contracts on carbon emission credits in the European Union.

While the Index Components are denominated in euros, the Index is calculated in U.S. dollars. The performance of the Index for any period reflects the weighted performance of the Index Components during that period, as adjusted by the performance of the euro/U.S. dollar exchange rate over that period, and, because the Index is a "total return" index, the return over that period that corresponds to the weekly announced interest rate for specified 3-month U.S. Treasury bills. The Index is maintained and calculated by Barclays Bank PLC (in such capacity, the "index sponsor"). The closing level of the Index will be calculated on each index business day and is reported by Bloomberg L.P. or a successor via the facilities of the Consolidated Tape Association under the ticker symbol "BXIIGC2T."

Understanding the Value of the ETNs

The "principal amount" is \$50.00 per ETN, which is the initial offering price at which the ETNs were sold on the inception date.

The "closing indicative value" is the value of the ETNs calculated by us on a daily basis and is used to determine the payment at maturity or upon early redemption. The calculation of the closing indicative value on any valuation date following the initial valuation date is based on the closing indicative value for the immediately preceding calendar day. As a result, the closing indicative value differs from the intraday indicative value or the trading price of the ETNs. The closing indicative value for each ETN on the initial valuation date was equal to \$50. On each subsequent calendar day until maturity or early redemption, the closing indicative value for each ETN will equal (1) the closing indicative value on the immediately preceding calendar day times (2) the daily index factor on such calendar day (or, if such day is not an index business day, one) minus (3) the investor fee on such calendar day. If the ETNs undergo a split or reverse split, the closing indicative value will be adjusted accordingly.

The "intraday indicative value" is intended to provide an approximation of the effect that changes in the level of the Index during the current trading day would have on the closing indicative value of the ETNs from the previous day. Intraday indicative value differs from closing indicative value in two important

respects. First, intraday indicative value is based on the most recent Index level published by the index sponsor, which reflects the most recent reported prices for the Index Components, rather than the daily index factor for the immediately preceding calendar day. Second, the intraday indicative value only reflects the investor fee at the close of business on the preceding calendar day, but does not include any adjustment for the investor fee during the course of the current day.

The intraday indicative value is not the market price of the ETNs in any secondary market and is not intended as a price or quotation, or as an offer or solicitation for the purchase or sale of the ETNs or as a recommendation to transact in the ETNs at the stated price. Because the intraday indicative value is based on the intraday Index levels, it will reflect any lags, disruptions or suspensions that affect the Index. The market price of the ETNs at any time may vary significantly from the intraday indicative value due to, among other things, imbalances of supply and demand for the ETNs (including as a result of any decision of ours to issue, stop issuing or resume issuing additional ETNs), futures contracts included in the Index and/or other derivatives related to the Index or the ETNs; any trading disruptions, suspension or limitations to any of the foregoing; lack of liquidity; severe volatility; transaction costs; credit considerations; and bid-offer spreads. A premium or discount market price over the intraday indicative value can also arise as a result of mismatches of trading hours between the ETNs and the futures contracts included in the Index, actions (or failure to take action) by the index sponsor and the relevant exchange of the futures contracts included in the Index and technical or human errors by service providers, market participants and others.

The intraday indicative value is calculated and published every 15 seconds on each trading day from approximately 9:30 a.m. to approximately 4:15 p.m., New York City time by ICE Data Indices, LLC or a successor under the ticker symbol GRN.IV. The daily settlement price of each futures contract underlying the Index is determined at or prior to 5:00 p.m. London time, or noon New York City time without accounting for the effect of daylight savings time, on each trading day. However, because of a time lag in the publication of the daily settlement price, the closing level of the Index, which is based on the daily settlement price, is typically not published until after 4:00 p.m., New York City time. The index sponsor suspends real-time calculation of the intraday level of the Index following the initial determination of the daily settlement price (subject to adjustment to reflect any late settlement of relevant futures contracts), even though the futures contracts underlying the Index might continue to trade on their markets. As a result, the intraday indicative value (which reflects the most recently published intraday level of the Index) will not reflect any trading in the futures contracts underlying the Index that might take place during this time period. Therefore, during this time period, the intraday indicative value is likely to differ from the value of the ETNs that would be determined if real-time trading data of the futures contracts were used in the calculation. As a result, we expect that the trading price of the ETNs is likely to diverge from the intraday indicative value during this time period, particularly if there is a significant price movement in the futures contracts during this time period.

The ETNs trade on the NYSE Arca exchange from approximately 9:30 a.m. to 4:00 p.m., New York City time. The ETNs may also trade during after-hours trading. Therefore, during after-hours trading, the last-published intraday indicative value is likely to differ from any value of the ETNs determined based on real-time trading data of the futures contracts, particularly if there is a significant price movement in the futures contracts during this time period. It is possible that the value of the ETNs could undergo a rapid and substantial decline outside of ordinary market trading hours. You may not be able to accurately assess the value of the ETNs relative to the trading price during after-hours trading, including any premium or discount thereto, when there is no recent intraday indicative value available.

If you sell your ETNs on the secondary market, you will receive the “trading price” for your ETNs, which may be substantially above or below the principal amount, closing indicative value and/or the intraday indicative value because the trading price reflects investor supply and demand for the ETNs. In addition, if you purchase your ETNs at a price which reflects a premium over the closing indicative value, you may experience a significant loss if you sell or redeem your ETNs at a time when such premium is no longer present in the market place or if we exercise our right to redeem the ETNs. Furthermore, if you sell your ETNs at a price which reflects a discount below the intraday indicative value, you may experience a significant loss.

For more information regarding the intraday indicative value, see “Valuation of the ETNs—Intraday Indicative Value” in this pricing supplement.

The ETN performance is linked to the performance of the Index less an investor fee. There is no minimum limit to the level of the Index. Moreover, the ETNs are not principal protected. Therefore, you could lose up to your entire investment in the ETNs.

Furthermore, because the investor fee reduces the amount of your return at maturity or upon early redemption, the level of the Index will need to increase significantly in order for you to receive at least the amount you invested in the ETNs at maturity or upon early redemption. If the increase in the level of the Index is insufficient to offset the negative effect of the investor fee, or if the level of the Index decreases, you will receive less than the amount you invested in the ETNs at maturity or upon early redemption.

If we have not delivered notice of our intention to exercise our right to redeem the ETNs, you may, subject to the minimum redemption amount, elect to redeem your ETNs on any redemption date. To redeem your ETNs, you must instruct your broker or other person through whom you hold your ETNs to take the following steps:

- deliver a notice of holder redemption, in proper form, which is attached as Annex A, to us via facsimile or email by no later than 4:00 p.m., New York City time, on the business day prior to the applicable valuation date. If we receive your notice by the time specified in the preceding sentence, we will respond by sending you a form of confirmation of holder redemption, which is attached as Annex B;
- deliver the signed confirmation of holder redemption to us via facsimile or email in the specified form by 5:00 p.m., New York City time, on the same day. We or our affiliate must acknowledge receipt in order for your confirmation to be effective;
- instruct your Depository Trust Company (“DTC”) custodian to book a delivery vs. payment trade with respect to your ETNs on the valuation date at a price per ETN equal to the applicable closing indicative value, facing Barclays DTC 5101; and
- cause your DTC custodian to deliver the trade as booked for settlement via DTC at or prior to 10:00 a.m., New York City time, on the applicable redemption date (the second business day following the applicable valuation date).

Different brokerage firms may have different deadlines for accepting instructions from their customers. Accordingly, you should consult the brokerage firm through which you own your interest in the ETNs in respect of such deadlines. If we do not receive your notice of holder redemption by 4:00 p.m., New York

City time, or your confirmation of holder redemption by 5:00 p.m., New York City time, on the business day prior to the applicable valuation date, your notice will not be effective and we will not redeem your ETNs on the applicable redemption date. Any redemption instructions for which we (or our affiliate) receive a valid confirmation in accordance with the procedures described above will be irrevocable.

The redemption value is determined according to a formula which relies upon the closing indicative value and will be calculated on a valuation date that will occur after the redemption notice is submitted. It is not possible to publicly disclose, or for you to determine, the precise redemption value prior to your election to redeem. The redemption value may be below the most recent intraday indicative value or closing indicative value of your ETNs at the time when you submit your redemption notice.

Principal Risks

Interested persons are referred to the discussion in the prospectus for the Fund of the principal risks of an investment in the Fund. These include tracking error risk (factors causing a Fund's performance to not match the performance of its underlying index), market trading risk (for example, trading halts, trading above or below net asset value), investment style risk, sector risk, investment approach risk, non-diversification risk, issuer-specific risk, management risk, concentration risk, equity securities risk, sector risk and passive investment risk.

Exchange Rules Applicable to Trading in the Shares

Trading in the Shares on MIAX PEARL is subject to MIAX PEARL trading rules.

Trading Hours

The value of the Index underlying the Shares will be disseminated to data vendors every 15 seconds during the Regular Trading Session.

The Shares will trade on MIAX PEARL between 9:30 a.m. and 4:00 p.m. Please note that trading in the Shares during the Exchange's Pre-Market and Post-Market Sessions ("Extended Market Sessions") may result in additional trading risks which include: (1) that the current underlying indicative value may not be updated during the Extended Market Sessions, (2) lower liquidity in the Extended Market Sessions may impact pricing, (3) higher volatility in the Extended Market Sessions may impact pricing, (4) wider spreads may occur in the Extended Markets Sessions, and (5) because the indicative value is not calculated or widely disseminated during the Extended Market Sessions, an investor who is unable to calculate an implied value for the Shares in those sessions may be at a disadvantage to market professionals.

Dissemination of Data

The Consolidated Tape Association will disseminate real time trade and quote information for the Shares to Tape B.

Name	Listing Market	Trading Symbol	IOPV Symbol	NAV Symbol
iPath® Series B Carbon Exchange-Traded Notes	NYSE Arca	GRN	GRN.IV	GRN.NV

Delivery of a Prospectus

MIAX PEARL Equity Members should be mindful of applicable prospectus delivery requirements under the federal securities laws with respect to transactions in the Fund. Prospectuses may be obtained through the Fund’s website. The prospectus for the Fund does not contain all of the information set forth in the Fund’s Registration Statement (including the exhibits to the Registration Statement), parts of which have been omitted in accordance with the rules and regulations of the SEC. For further information about the Fund, please refer to its Registration Statement.

In the event that the Fund relies upon an order by the SEC exempting the Shares from certain prospectus delivery requirements under Section 24(d) of the Investment Company Act of 1940 and in the future make available a written product description, MIAX PEARL Rules requires that MIAX PEARL Equity Members provide to all purchasers of Shares a written description of the terms and characteristics of such securities, in a form prepared by the Issuer of the Fund, no later than the time a confirmation of the first transaction in the Shares is delivered to such purchaser. In addition, MIAX PEARL Equity Members shall include such a written description with any sales material relating to the Shares that is provided to customers or the public. Any other written materials provided by an MIAX PEARL Equity Member to customers or the public making specific reference to the Shares as an investment vehicle must include a statement in substantially the following form: “A circular describing the terms and characteristics of [the UTP Exchange Traded Products] has been prepared by the [open-ended management investment company name] and is available from your broker. It is recommended that you obtain and review such circular before purchasing [the UTP Exchange Traded Products].”

A MIAX PEARL Equity Member carrying an omnibus account for a non-member broker-dealer is required to inform such non-member that execution of an order to purchase Shares for such omnibus account will be deemed to constitute agreement by the non-member to make such written description available to its customers on the same terms as are directly applicable to MIAX PEARL Equity Member under this rule.

Upon request of a customer, MIAX PEARL Members also shall provide a copy of the Prospectus.

Suitability

Trading in the securities on the Exchange will be subject to the provisions of MIAX PEARL Rule 2107 and other applicable suitability rules. Equity Members recommending transactions in the securities to customers should make a determination that the recommendation is suitable for the customer.

Trading Halts

MIAX PEARL will halt trading in the Shares of a security in accordance with MIAX PEARL Rules. The grounds for a halt under MIAX PEARL Rules include a halt by the primary market because the intraday indicative value of the security and/or the value of its underlying index are not being disseminated as required, or a halt for other regulatory reasons. In addition, MIAX PEARL will stop trading the Shares of a security if the primary market de-lists the security.

Exemptive, Interpretive and No-Action Relief Under Federal Securities Regulations

The Securities and Exchange Commission (the “SEC”) has issued letters granting exemptive, interpretive and no-action relief from certain provisions of rules under the Securities Exchange Act of 1934 for exchange-traded securities listed and traded on a registered national securities exchange that meet certain criteria.

AS WHAT FOLLOWS IS ONLY A SUMMARY OF THE RELIEF OUTLINED IN THE NO-ACTION LETTERS REFERENCED ABOVE, THE EXCHANGE ADVISES INTERESTED PARTIES TO CONSULT THE NO- ACTION LETTERS FOR MORE COMPLETE INFORMATION REGARDING THE MATTERS COVERED THEREIN AND THE APPLICABILITY OF THE RELIEF GRANTED IN RESPECT OF TRADING IN SECURITIES. INTERESTED PARTIES SHOULD ALSO CONSULT THEIR PROFESSIONAL ADVISORS.

Regulation M Exemptions

Generally, Rules 101 and 102 of Regulation M prohibit any “distribution participant” and its “affiliated purchasers” from bidding for, purchasing, or attempting to induce any person to bid for or purchase any security which is the subject of a distribution until after the applicable restricted period, except as specifically permitted in Regulation M. The provisions of the Rules apply to underwriters, prospective underwriters, brokers, dealers, and other persons who have agreed to participate or are participating in a distribution of securities.

The SEC has granted an exemption from Rule 101 under Regulation M to permit persons participating in a distribution of shares of the above-mentioned Fund to engage in secondary market transactions in such shares during their participation in such a distribution. In addition, the SEC has granted relief under Regulation M to permit persons who may be deemed to be participating in the distribution of Shares of the above-mentioned Fund (i) to purchase securities for the purpose of purchasing Creation Unit Aggregations of Fund Shares and (ii) to tender securities for redemption in Creation Unit Aggregations. Further, the SEC has clarified that the tender of Fund Shares to the Fund for redemption does not constitute a bid for or purchase of any of the Fund’s securities during the restricted period of Rule 101. The SEC has also granted an exemption pursuant to paragraph (e) of Rule 102 under Regulation M to allow the redemption of Fund Shares in Creation Unit Aggregations during the continuous offering of Shares.

Rule 10b-10 (Customer Confirmations for Creation or Redemption of Fund Shares)

Broker-dealers who handle purchases or redemptions of Fund Shares in Creation Unit size for customers will be permitted to provide such customers with a statement of the number of Creation Unit Aggregations created or redeemed without providing a statement of the identity, number and price of shares of the individual securities tendered to the Fund for purposes of purchasing Creation Unit Aggregations (“Deposit Securities”) or the identity, number and price of shares to be delivered by the

Trust for the Fund to the redeeming holder (“Redemption Securities”). The composition of the securities required to be tendered to the Fund for creation purposes and of the securities to be delivered on redemption will be disseminated each business day and will be applicable to requests for creations or redemption, as the case may be, on that day. This exemptive relief under Rule 10b-10 with respect to creations and redemption is subject to the following conditions:

- 1) Confirmations to customers engaging in creations or redemptions must state that all information required by Rule 10b-10 will be provided upon request;
- 2) Any such request by a customer for information required by Rule 10b-10 will be filed in a timely manner, in accordance with Rule 10b-10(c); and
- 3) Except for the identity, number, and price of shares of the component securities of the Deposit Securities and Redemption Securities, as described above, confirmations to customers must disclose all other information required by Rule 10b-10(a).

Rule 10b-17 (Untimely Announcement of Record Dates)

The SEC has granted an exemption from the requirements of Rule 10b-17 that will cover transactions in the Shares.

Section 11(d)(1); Rule 11d1-2 (Customer Margin)

The SEC has taken a no-action position under Section 11(d)(1) that will permit broker-dealers that do not create Shares but engage in both proprietary and customer transactions in such Shares exclusively in the secondary market to extend or maintain or arrange for the extension or maintenance of credit on the Shares, in connection with such secondary market transactions. For broker-dealers that engage in the creation of Shares, the SEC has also taken a no-action position under Rule 11d1-2 that will cover the extension or maintenance or the arrangement for the extension or maintenance of credit on the Shares that have been owned by the persons to whom credit is provided for more than 30 days.

Rule 14e-5

An exemption from Rule 14e-5 has been granted to permit any person acting as a dealer-manager of a tender offer for a component security of the Fund (1) to redeem Fund Shares in Creation Unit Aggregations from the issuer that may include a security subject to such tender offer and (2) to purchase Fund Shares during such tender offer. In addition, a no-action position has been taken under Rule 14e-5 if a broker-dealer acting as a dealer-manager of a tender offer for a security of the Fund purchases or arranges to purchase such securities in the secondary market for the purpose of tendering such securities to purchase one or more Creation Unit Aggregations of Shares, if made in conformance with the following:

- 1) such bids or purchases are effected in the ordinary course of business, in connection with a basket of 20 or more securities in which any security that is the subject of a distribution, or any reference security, does not comprise more than 5% of the value of the basket purchase;
or

- 2) purchases are effected as adjustments to such basket in the ordinary course of business as a result of a change in the composition of the underlying index; and
- 3) such bids or purchases are not effected for the purpose of facilitating such tender offer.

SEC Rule 15c1-5 and 15c1-6 (Disclosure of Control and interest in Distributions)

The SEC has taken a no-action position under Rule 15c1-5 that will permit a broker-dealer to execute transactions in Shares without disclosing any control relationship with an issuer of a component security. In addition, the SEC has taken a no-action position under Rule 15c1-6 that will permit a broker dealer to execute transactions in the Shares without disclosing its participation or interest in a primary or secondary distribution of a component security.

This Product Circular is not a statutory prospectus. MIAX PEARL Equity Members should consult the prospectus for a security and the security's website for relevant information.

Please direct product listing questions to MIAX PEARL Equities Listings at Listings@MIAXOptions.com or (609) 897-7308.

Please direct regulatory questions to the MIAX PEARL Regulatory Department at Regulatory@MIAXOptions.com or (609) 897-7309.