

INDEX GUIDELINE

Solactive Natural Gas Winter MD Rolling Futures
Index ER

Version 1.2

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INTRODUCTION

This document (the “**GUIDELINE**”) is to be used as a guideline with regard to the composition, calculation and management of the Solactive Natural Gas Winter MD Rolling Futures Index ER (the “**INDEX**”). Any changes made to the guideline are initiated by the Committee specified in section 1.6. The Index is calculated, administrated and published by Solactive AG (“**SOLACTIVE**”) assuming the role as index administrator (the “**INDEX ADMINISTRATOR**”) under the Regulation (EU) 2016/1011 (the “**BENCHMARK REGULATION**” or “**BMR**”). The name “Solactive” is trademarked.

The text uses defined terms which are formatted with “SMALL CAPS”. Such Terms shall have the meaning assigned to them as specified in Section 3 (Definitions).

The **GUIDELINE** and the policies and methodology documents referenced herein contain the underlying principles and rules regarding the structure and operation of the **INDEX**. **SOLACTIVE** does not offer any explicit or tacit guarantee or assurance, neither pertaining to the results from the use of the **INDEX** nor the level of the **INDEX** at any certain point in time nor in any other respect. **SOLACTIVE** strives to the best of its ability to ensure the correctness of the calculation. There is no obligation for **SOLACTIVE** – irrespective of possible obligations to issuers – to advise third parties, including investors and/or financial intermediaries, of any errors in the **INDEX**. The publication of the **INDEX** by **SOLACTIVE** does not constitute a recommendation for capital investment and does not contain any assurance or opinion of **SOLACTIVE** regarding a possible investment in a financial instrument based on this **INDEX**.



1. INDEX SPECIFICATIONS

1.1. SCOPE OF THE INDEX

The Solactive Natural Gas Winter MD Rolling Futures Index ER (the "Index") is an Index of Solactive AG and is calculated and distributed by Solactive AG.

The index tracks the performance of the January Natural Gas future and rolls the exposure over eight days during the roll period from the Active Contract into the Next Active Contract.

The Index is calculated as an Excess Return Index and published in US Dollar.

1.2. IDENTIFIERS AND PUBLICATION

The INDEX is published under the following identifiers:

Name	ISIN	WKN	CURRENCY	Type	RIC	BBG
Solactive Natural Gas Winter MD Rolling Futures Index ER	DE000SLA2803	SLA280	USD	ER	.SOLCNGF1	SOLCNGF1 Index

ER* means the Index is calculated as Excess Return.

The INDEX is published on the website of the INDEX ADMINISTRATOR (www.solactive.com) and is, in addition, available via the price marketing services of Boerse Stuttgart GmbH and may be distributed to all of its affiliated vendors. Each vendor decides on an individual basis as to whether it will distribute or display the INDEX via its information systems.

Any publication in relation to the INDEX (e.g. notices, amendments to the GUIDELINE) will be available at the website of the INDEX ADMINISTRATOR: <https://www.solactive.com/news/announcements/>.

1.3. INCEPTION LEVEL OF THE INDEX

The Index is based on 2243.16 at the close of trading on September 30, 2014..

1.4. PRICES AND CALCULATION FREQUENCY

The level of the INDEX is calculated and distributed once on each TRADING DAY based on the SETTLEMENT PRICES on the respective EXCHANGES on which the INDEX COMPONENTS are listed. The most recent SETTLEMENT PRICES of all INDEX COMPONENTS are used. Should there be no current SETTLEMENT PRICE available, the most recent SETTLEMENT PRICE on Intercontinental Exchange ("ICE") for the preceding TRADING DAY is used in the calculation.

The INDEX is calculated once a Business Day at 4:30pm, EST. In the event that data cannot be provided to the pricing services of Boerse Stuttgart GmbH, the INDEX cannot be distributed and is only available via the website of the INDEX ADMINISTRATOR.

Any incorrect calculation is adjusted on a retrospective basis.



1.5. WEIGHTING

The Weighting of the futures in the index is done according to Section 2.

1.6. DECISION-MAKING BODIES

A Committee composed of staff from Solactive AG and its subsidiaries is responsible for decisions regarding the composition of the Index as well as any amendments to the rules (in this document referred to as the "Committee" or the "Index Committee"). Any such amendment, which may result in an amendment of the Guideline, must be submitted to the Index Committee for prior approval and will be made in compliance with the Methodology Policy, which is available on the website: <https://www.solactive.com/documents/methodology-policy/>. The Committee shall also decide about the future composition of the Index. If any Extraordinary Events should occur and the implementation of any necessary adjustments.

Members of the Committee can recommend changes to the guideline and submit them to the Committee for approval.

1.7. HISTORICAL DATA

Historical data is available from the index base date on January 3, 2006.

1.8. LICENSING

Licenses to use the Index as the underlying value for financial instruments, investment funds and financial contracts may be issued to stock exchanges, banks, financial services providers and investment houses by SOLACTIVE.



2. INDEX SELECTION

2.1. INDEX FORMULA

The Index Value on Trading Day t is calculated in accordance with the following formula:

$$I_t = I_{t-1} \cdot \left(\frac{CRW_{A,t} \cdot SP_{A,t}}{SP_{A,t-1}} + \frac{CRW_{NA,t} \cdot SP_{NA,t}}{SP_{NA,t-1}} \right)$$

with:

I_{t-1} = Index Value on the Trading Day immediately preceding Trading Day t

$CRW_{A,t}$ = Commodity Roll Weight of the Active Contract on Trading Day t

$CRW_{NA,t}$ = Commodity Roll Weight of the Next Active Contract on Trading Day t

$SP_{A,t}$ = Settlement Price of the Active Contract on Trading Day t

$SP_{NA,t}$ = Settlement Price of the Next Active Contract on Trading Day t

2.2. ROLL PERIOD

During the Roll Period the Active Contract is rolled over an eight day period into the Next Active Contract. The Roll Period starts on the 10th Trading Day of each November and the Commodity Roll Weight of the Active Contract is decreased by 12.5% after the Close of Business of each Trading Day of the Roll Period starting at 100% while the Commodity Roll Weight of the Next Active Contract is increased by 12.5% after the Close of Business of each Trading Day of the Roll Period starting at 0%. After the end of the roll period the Next Active Contract becomes the Active Contract. The roll schedule is listed in Section 4.5.

2.3. ACCURACY

The value of the Index will be rounded to 2 decimal places..



2.4. CALCULATION OF THE INDEX IN THE EVENT OF A MARKET DISRUPTION EVENT

From time to time, market disruption events may occur that will result in the postponement of the Index and/or the adjustment of the roll period. A Market Disruption Day will be deemed to have occurred if any of the following events occur:

- i. The Daily Contract Settlement Price is not published by the Exchange by 4:00 PM Eastern Time;
- ii. The Daily Contract Settlement Price is erroneous, in the reasonable judgment of Solactive, and such error is not corrected by 4:00pm Eastern Time;
- iii. The Daily Contract Settlement Price is a Limit price (as defined by the applicable Exchange);
- iv. Trading in the relevant contract is disrupted during the trading day and does not trade for at least 30 minutes prior to the scheduled closing time (or rescheduled closing time if the contract closing time is rescheduled)

If any of these events occur on a non-roll date, the Index will not be posted for that Business Day. If any of these events occur on a roll date, the applicable Index will not be posted for that Business Day and the portion of the roll that was to take place on the Market Disruption Day will take place on the next non-Market Disruption Business Day. For instance, if the Market Disruption Day occurred on the 7th Business Day of the month, the 25% portion that was to be rolled on day 7 will be added to the 25% roll on the 8th Business Day making the total roll 50% on the 8th Business Day.

If the Market Disruption Event continues over a period of eight Trading Days, then the Committee will determine the necessary action (including but not limited to taking into account the market conditions prevailing at this point in time, the last quoted Prices for each of the Index Components as well as any other conditions that it deems relevant for calculating the Index value) such that the affected securities resulting from the Market Disruption Event are no longer causing such disruption to occur.



3. DEFINITIONS

“ACTIVE CONTRACT” means the contract given in the roll schedule under Section 4.5.

“BENCHMARK REGULATION” shall have the meaning as defined in Section “Introduction”.

“BMR” shall have the meaning as defined in Section “Introduction”.

“TRADING DAY” means any day in which the US commodity market is open and publishes a Contract Settlement Price for the Designated Relevant Contracts and which the Toronto Stock Exchange (“TSX”) is open and publishes closing prices.

“COMMODITY ROLL WEIGHT” means the target weight determined as per Section 2.2.

“EXCHANGE” means the Chicago Mercantile Exchange and the Toronto Stock Exchange.

“EXTRAORDINARY EVENT” is referring to the case if one or more contracts mentioned in the roll schedule under Section 4.5 are not listed anymore.

The **“INDEX ADMINISTRATOR”** is Solactive AG or any other appropriately appointed successor in this function.

The **“INDEX CURRENCY”** is USD.

A **“MARKET DISRUPTION EVENT”** is defined in section 2.4.

“NEXT ACTIVE CONTRACT” means the contract given in the roll schedule under Section 4.5.

“ROLL PERIOD” means a roll period as defined in Section 2.2.



4. APPENDIX

4.1. CALCULATION OF THE INDEX – CHANGE IN CALCULATION METHOD

The application by the Index Administrator of the method described in this document is final and binding. The Index Administrator shall apply the method described above for the composition and calculation of the Index. However, it cannot be excluded that the market environment, supervisory, legal, financial or tax reasons may require changes to be made to this method. The Index Administrator may also make changes to the terms and conditions of the Index and the method applied to calculate the Index, which he deems to be necessary and desirable in order to prevent obvious or demonstrable error or to remedy, correct or supplement incorrect terms and conditions. The Index Administrator is not obliged to provide information on any such modifications or changes. Despite the modifications and changes the Index Administrator will take the appropriate steps to ensure a calculation method is applied that is consistent with the method described above.

4.2. METHODOLOGY REVIEW

The methodology of the Index is subject to regular review, at least annually. In case a need of a change of the methodology has been identified within such review (e.g. if the underlying market or economic reality has changed since the launch of the Index, i.e. if the present methodology is based on obsolete assumptions and factors and no longer reflects the reality as accurately, reliably and appropriately as before), such change will be made in accordance with the Solactive Methodology Policy, which is incorporated by reference and available on the website: <https://www.solactive.com/documents/methodology-policy/>.

Such change in the methodology will be announced on the website of Solactive AG under the Section "[Announcement](https://www.solactive.com/news/announcements/)", which is available at <https://www.solactive.com/news/announcements/>. The date of the last amendment of this Index is contained in this Guideline.

4.3. TERMINATION

Solactive AG makes the greatest possible efforts to ensure the resilience and continued integrity of its indices over time. Where necessary, Solactive AG follows a clearly defined and transparent procedure to adapt Index methodologies to changing underlying markets (see Section 4.2 "Methodology Review") in order to maintain continued reliability and comparability of the indices. Nevertheless, if no other options are available the orderly cessation of the Index may be indicated. This is usually the case when the underlying market or economic reality, which an index is set to measure or to reflect, changes substantially and in a way not foreseeable at the time of inception of the index, the index rules, and particularly the selection criteria, can no longer be applied coherently or the index is no longer used as the underlying value for financial instruments, investment funds and financial contracts.



Solactive AG has established and maintains clear guidelines on how to identify situations in which the cessation of an index is unavoidable, how stakeholders are to be informed and consulted and the procedures to be followed for a termination or the transition to an alternative index. Details are specified in the Solactive Termination Policy, which is incorporated by reference and available on the website: <https://www.solactive.com/documents/termination-policy/>.

4.4. OVERSIGHT

An oversight committee composed of staff from SOLACTIVE and its subsidiaries (the “**OVERSIGHT COMMITTEE**”) is responsible for decisions regarding any amendments to the rules of the INDEX. Any such amendment, which may result in an amendment of the GUIDELINE, must be submitted to the OVERSIGHT COMMITTEE for prior approval and will be made in compliance with the Methodology Policy, which is available on the SOLACTIVE website: <https://www.solactive.com/documents/methodology-policy/>.



4.5. ROLL SCHEDULE

Active Contract:

Contract/Month	1	2	3	4	5	6	7	8	9	10	11	12
NG	F+	F+	F+	F+	F+	F+	F+	F+	F+	F+	F+	F++

Next Active Contract:

Contract/Month	1	2	3	4	5	6	7	8	9	10	11	12
NG	F+	F+	F+	F+	F+	F+	F+	F+	F+	F+	F++	F++

A "+" defines a contract of the following year, a "++" the year after that. The following naming convention of the contracts holds:

Identifier	Month	Identifier	Month
F	January	N	July
G	February	Q	August
H	March	U	September
J	April	V	October
K	May	X	November
M	June	Z	December

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