



## Technical Specifications

**PVB-ES NG Physical Futures  
Contracts**

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Launch of Monthly Contracts with Delivery Period corresponding to the 4th, 5th and 6th following month.

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## TECHNICAL SPECIFICATIONS

### PVB-ES NG Physical Futures Contracts

<b>Underlying Assets</b>	<ul style="list-style-type: none"> <li>▪ The underlying asset for each contract corresponds to the delivery or receipt of natural gas with physical settlement at the Spanish Virtual Balancing Point ("Punto Virtual de Balance Español" - PVB-ES) with delivery of 1 MWh / day during the delivery period.</li> <li>▪ The physical settlement of the contract is made through daily notification of the net physical positions to the TSO (Enagás GTS, S.A.U.) corresponding to transfers of ownership related to the sale or purchase of natural gas at the Spanish Virtual Spanish Balance "- PVB-ES).</li> <li>▪ Notifications to the TSO are made by OMIClear, according to the rules of OMIClear.</li> <li>▪ A Gas Day means the period from 6:00 CET of a day to 06:00 CET of the following day.</li> <li>▪ When referring to a Day in the Delivery Period in these TS, when not mentioned, the meaning will be defined in the previous point. For example, when you refer to Friday as the day of delivery, it means the period from 06:00 CET on Friday to 06:00 CET on Saturday.</li> </ul>
<b>Tradable Contracts</b>	<ul style="list-style-type: none"> <li>▪ Days: on the Last Trading Day of each week all contracts with delivery in the following week (Monday to Sunday) are listed.</li> <li>▪ Weekend: the following 4 weekends. On the first day of each week a new contract is listed.</li> <li>▪ Week-days: the following 3 week-days (weeks consisting of only weekdays). On the first day of each week a new contract is listed.</li> <li>▪ Balance of the Month (BoM): on each Trading Day a new contract is listed with a delivery period between the next calendar day and the last calendar day of the month corresponding to the trading Day, not being traded when equivalent to a Contract Day, Weekend, Week-days or Month.</li> <li>▪ Months: the following 6 months. A new contract is listed on the first day of each month.</li> <li>▪ Quarters: the next 4 to 3 quarters. A new contract is listed on the first day of each quarter. Exception of 3 quarters occurs due to the definition of the Last Trading Day.</li> <li>▪ Season-Gas (April 1<sup>st</sup> to September 30<sup>th</sup> and October 1<sup>st</sup> to March 31<sup>st</sup>): the next 3 to 2 season-gas. On the first day of each season-gas is listed a new contract. Exception of 2 seasons-gas occurs due to the definition of the Last Trading Day.</li> <li>▪ Years: 2 to 1 year following. On the first day of each year a new contract is listed. Exception of 1 year occurs due to the definition of the Last Trading Day.</li> </ul>
<b>Nominal</b>	<p>1 MWh/day<sup>(1)</sup> hours x number of days.<sup>(2)</sup></p> <p>For example, November contract has a nominal of 1 MWh/day x 30 = 30 MWh.</p> <p><sup>(1)</sup> In the case of these Contracts is understood as the day of delivery of the Gas Day d, as defined in the respective General Contract Clauses</p>

	(2) See Appendix A for table of contracts nominal.
<b>Price Quotation</b>	€ per MWh
<b>Tick</b>	For continuous trading or auction, the Tick (minimum price variation) is 2.5 euro cents per MWh (0.025 € / MWh). For the registration of Bilateral Operations the Tick is one thousandth of euro per MWh (0.001 € / MWh).
<b>Tick Value</b>	Depends on the Nominal of the contract and the trading mode. As an example, in the case of the November contract, the tick value is € 0.030 for the Bilateral Transaction registration and € 0.75 [€ 0.025 € * 30] for the continuous trading and auction mode.
<b>Minimum Lot Size and Tick Volume</b>	In the continuous trading or auction mode, the Minimum Lot (minimum quantity of contracts) is 120 contracts and the Volume Tick (value to which the number of contracts must correspond as multiple) is 10 contracts. In the Bilateral Operations registration, the Minimum Lot and the Volume Tick are both 1 contract.
<b>Trading Hours</b>	As defined in OMIP Trading Notice
<b>First Trading Day (FTD)</b>	<ul style="list-style-type: none"> <li>Days: occurs in the last Trading Session of the week prior to the week that includes the days in question.</li> <li>Weekend: In the first Trading Session of each calendar week, is launched the Weekend contract of the calendar week S + 4.</li> <li>Week-days: occurs in the first Trading Session of each week that started the delivery, that is, in the first Trading Session of week S (which started delivery), is listed the contract with delivery in week S + 3, and so on.</li> <li>Balance of the Month: occurs on the current trading day.</li> <li>Months: occurs in the first Trading Session of the 6<sup>th</sup> month preceding the month in question.</li> <li>Quarter: occurs in the first Trading Session of the 4<sup>th</sup> quarter preceding the quarter in question.</li> <li>Season-Gas: occurs in the first Trading Session of the 3<sup>rd</sup> season-gas preceding the season-gas in question.</li> <li>Year: occurs in the first Trading Session of the 2<sup>nd</sup> year preceding the year in question.</li> </ul>
<b>Last Trading Day (LTD)</b>	<ul style="list-style-type: none"> <li>Days: Trading Day preceding the day in question.</li> <li>Weekend: Trading Day preceding the weekend in question.</li> <li>Weeks-days: Trading Day preceding the first day of delivery.</li> <li>Balance of the Month: corresponds to the current trading day.</li> <li>Months: Trading Day preceding the first day of delivery.</li> <li>Quarters: corresponds to the Trading Day preceding the LTD of the first underlying Month contract.</li> <li>Season-Gas: corresponds to the Trading Day preceding the LTD of the first underlying Month Contract.</li> <li>Years: corresponds to the Trading Day preceding the LTD of the first underlying Month Contract.</li> </ul>
<b>Trading Period</b>	Period comprised between the first Trading Day and the Last Trading Day, both

	included.
<b>Cascading Process</b>	<ul style="list-style-type: none"> <li>▪ Quarters: In the LTD, after the closing of the trading session, the Positions are replaced by Positions of identical volume in the 3 underlying Month Contracts, which acquire the Settlement Price of the respective Quarter Contract in the LTD.</li> <li>▪ Season-Gas: In the LTD, after the closing of the trading session, the Positions are replaced by Positions of identical volume in the 3 Contracts Month underlying of the first quarter and in the second Quarter Contract at the Settlement Price of the respective Season-Gas Contract on the LTD.</li> <li>▪ Year: In the LTD, after the closing of the trading session, the Positions are replaced by Positions of identical volume in the January, February, March, 2<sup>nd</sup> Quarter, 3<sup>rd</sup> Quarter and 4<sup>th</sup> Quarter Contracts underlying, which acquire the Settlement Price of the respective Year Contract in the LTD.</li> </ul> <p>The fractioning operation of Positions is processed in the LTD after the completion of the clearing and settlement procedures by OMIClear.</p> <p>The breakdown of the Year Contract and the Season-Gas Contract positions is made at the same time as the breakdown of the positions of the first Quarter Contract, respectively, of that same year and of the same Season-Gas.</p>
<b>First Delivery Day</b>	<ul style="list-style-type: none"> <li>▪ Days: the day in question.</li> <li>▪ Weekend: Saturday of the weekend in delivery.</li> <li>▪ Week-days: the Monday of the week in delivery.</li> <li>▪ Balance of the Month: the next calendar day after the respective trading day;</li> <li>▪ Months: the first calendar day of the month in delivery.</li> <li>▪ Quarters: The first calendar day of the quarter on delivery. Given the Quarter fractioning process, the notion of First Delivery Day is merely notional.</li> <li>▪ Season-Gas: the first calendar day of the season-gas on delivery (April 1<sup>st</sup> for Summer and October 1<sup>st</sup> for Winter). Given the Season-Gas fractioning process, the notion of First Delivery Day is merely notional.</li> <li>▪ Years: the first calendar day of the year in delivery (January 1<sup>st</sup>). Given the Year fractioning process, the notion of First Delivery Day is merely notional.</li> </ul>
<b>Last Delivery Day</b>	<ul style="list-style-type: none"> <li>▪ Days: coincides with the first delivery day.</li> <li>▪ Weekend: Sunday of the weekend in delivery.</li> <li>▪ Week-days: the Friday of the week in delivery.</li> <li>▪ Balance of the Month: The last calendar day of the month corresponding to the current trading day.</li> <li>▪ Months: the last calendar day of the month in delivery.</li> <li>▪ Quarters: the last calendar day of the quarter in delivery. Given the Quarter fractioning process, the notion of Last Delivery Day is merely notional.</li> <li>▪ Season-Gas: the last calendar day of the season-gas on delivery (September 30<sup>th</sup> for Summer and March 31<sup>st</sup> for Winter).</li> <li>▪ Years: the last calendar day of the year in delivery (December 31<sup>st</sup>). Given the Year fractioning process, the notion of Last Delivery Day is merely notional.</li> </ul>
<b>Delivery Period</b>	Period between the first delivery day and the last delivery day, both included. In the case of Quarters, Season-Gas and Years, given the fractioning process, the notion

	of delivery period is merely notional.
<b>Settlement Upon Maturity</b>	<p>The provisions set forth in the present Clause are solely applied to the Positions in the Month, Balance of the Month, Weekdays, Weekend and Day Contracts, whether they result from Operations on those Contracts or they arise from the Cascading of Year, Season-Gas and Quarter Contracts.</p> <p>At the end of the LTD session of each Day, Weekend, Weekdays, Balance of the Month and Month Contract, the open positions, including those which result from the Cascading of Quarter, Season-Gas and Year Contracts, are deemed final for settlement on the Delivery Period, being subject, on a daily basis, of a settlement by physical delivery that consists of:</p> <p>1. Calculation of the Delivery Settlement Value in accordance with OMIClear instruction:</p> $DSV_d = \sum_{i=1}^n (-FQ_i \times SP_i)$ <p>Where,</p> <p><math>DSV_d</math> = Delivery Settlement Value on the delivery day <math>d^{(1)}</math>;</p> <p><math>i</math> = Futures Contract with delivery on day <math>d</math>;</p> <p><math>n</math> = total number of Futures Contracts with delivery on day <math>d</math>;</p> <p><math>SP_i</math> = Settlement Price on the Futures Contracts <math>i</math> on the Last Trading Day;</p> <p>According to OMIClear's Instruction in a scenario in which a Physical Settlement Agent loses his enabled condition at the TSO (Enagás GTS), the PRNi will correspond to the amount set by Enagás GTS, namely to the value of the applicable Unbalance Fare, in accordance with the current sectoral regulation.</p> <p><math>FQ_i</math> = Final Position (number of contracts) in the Future Contract <math>i</math> with delivery on day <math>d</math>:</p> <p><math>FQ_i</math> assuming a positive value (+) in the case of a long position.</p> <p><math>FQ_i</math> assuming a negative value (-) in the case of a short position</p> <p>2. Physical Settlement - daily notification of the Physical Net Positions to the System Technical Operator (Enagás GTS, SAU) corresponding to transfers of ownership related to the sale or purchase of natural gas at the Spanish Virtual Balancing Point ("Punto Virtual de Balance Español " - PVB-ES) according to OMIClear's Instruction.</p> <p>To the PVB-ES NG Physical Futures Contracts apply the VAT according to the current legislation.</p>
<b>Initial Margin</b>	Based on the Positions portfolio (based on the SPAN model), according to OMIClear's Instruction. The Initial Margin requirement is met with collateral.
<b>Settlement Price</b>	OMIP defines daily and for each Contract a Settlement Price according to methodology defined in OMIP Instruction.

<sup>(1)</sup> In these Contracts the delivery day  $d$  is the Gas Day  $d$ , as defined in the corresponding General Contractual Terms.

<b>(During the Trading Period)</b>	
<b>Daily Settlement (Mark-to-Market)</b>	During the trading period of the contracts, a daily settlement of the profits and losses (mark-to-market) is processed, according to methodology and procedures set in OMIClear's Instructions.
<b>Daily Price Change Limit</b>	For each contract, the price of any transaction must not exceed a value (positive or negative) compared with the previous Settlement Price, according to the rules defined in OMIP Notice.
<b>Trading Calendar</b>	According to OMIP Notice, the Trading Days refer to all days except Saturdays, Sundays and all fixed and variable 'closing days' of TARGET system.

## Appendix A – Nominal of the Contracts (MWh)

Contracts	Delivery Period	Gas-Day	Nominal (MWh)
Days	Days	1	1
Weekend	Weekend	2	2
Weekdays	Weekdays	5	5
Months	February	28	28
	February (leap year)	29	29
	April, June, September, November	30	30
	January, March, May, July, August, October, December	31	31
Quarters	1 <sup>st</sup> quarter	90	90
	1 <sup>st</sup> quarter (leap year)	91	91
	2 <sup>nd</sup> quarter	91	91
	3 <sup>rd</sup> quarter	92	92
	4 <sup>th</sup> quarter	92	92
Season-Gas	Winter	182	182
	Winter (leap year)	183	183
	Summer	183	183
Years	Common calendar year	365	365
	Leap calendar year	366	366

Balance of the Month	Min-Max Gas-Day	Min-Max Nominal (MWh)
February	2-27	2-27
February (leap year)	2-28	2-28
April, June, September, November	2-29	2-29
January, March, May, July, August, October, December	2-30	2-30