

### Changes to Argus Global Markets effective 9 August 2019

Argus is adding the following codes in the Argus Global Markets data module. The following PA code details will appear in the DAGM module in the DAGM folder of ftp.argusmedia.com effective 9 August 2019. To clearly distinguish a change in underlying refinery model, Argus is changing data codes from the legacy model to the new model at the beginning of August. The following codes have stopped and below that is the relationship of the stopped codes to the new codes.

PA-code	Time stamp	Price type	Continuous forward	Description	Start date	Unit	Category	Frequency
PA0022371	0	18	0	Brent NWE PIMS simple yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North Europe	Weekly
PA0022371	0	19	0	Brent NWE PIMS simple yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North Europe	Weekly
PA0022371	0	50	0	Brent NWE PIMS simple yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North Europe	Weekly
PA0022372	0	18	0	WTI USGC PIMS simple yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North America	Weekly
PA0022372	0	19	0	WTI USGC PIMS simple yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North America	Weekly
PA0022372	0	50	0	WTI USGC PIMS simple yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North America	Weekly
PA0022373	0	18	0	Minas Asia PIMS simple yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->Asia-Pacific	Weekly
PA0022373	0	19	0	Minas Asia PIMS simple yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->Asia-Pacific	Weekly
PA0022373	0	50	0	Minas Asia PIMS simple yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->Asia-Pacific	Weekly
PA0022374	0	18	0	Minas Asia PIMS complex yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->Asia-Pacific	Weekly
PA0022374	0	19	0	Minas Asia PIMS complex yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->Asia-Pacific	Weekly
PA0022374	0	50	0	Minas Asia PIMS complex yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->Asia-Pacific	Weekly
PA0022375	0	18	0	WTI USGC PIMS complex yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North America	Weekly
PA0022375	0	19	0	WTI USGC PIMS complex yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North America	Weekly
PA0022375	0	50	0	WTI USGC PIMS complex yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North America	Weekly
PA0022376	0	18	0	Brent NWE PIMS complex yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North Europe	Weekly
PA0022376	0	19	0	Brent NWE PIMS complex yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North Europe	Weekly
PA0022376	0	50	0	Brent NWE PIMS complex yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North Europe	Weekly
PA0022377	0	18	0	Forties NWE PIMS simple yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North Europe	Weekly
PA0022377	0	19	0	Forties NWE PIMS simple yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North Europe	Weekly
PA0022377	0	50	0	Forties NWE PIMS simple yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North Europe	Weekly
PA0022378	0	18	0	Mars USGC PIMS simple yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North America	Weekly
PA0022378	0	19	0	Mars USGC PIMS simple yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North America	Weekly
PA0022378	0	50	0	Mars USGC PIMS simple yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North America	Weekly
PA0022379	0	18	0	Oman Asia PIMS simple yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->Asia-Pacific	Weekly
PA0022379	0	19	0	Oman Asia PIMS simple yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->Asia-Pacific	Weekly
PA0022379	0	50	0	Oman Asia PIMS simple yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->Asia-Pacific	Weekly
PA0022380	0	18	0	Oman Asia PIMS complex yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->Asia-Pacific	Weekly
PA0022380	0	19	0	Oman Asia PIMS complex yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->Asia-Pacific	Weekly
PA0022380	0	50	0	Oman Asia PIMS complex yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->Asia-Pacific	Weekly
PA0022381	0	18	0	Mars USGC PIMS complex yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North America	Weekly
PA0022381	0	19	0	Mars USGC PIMS complex yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North America	Weekly
PA0022381	0	50	0	Mars USGC PIMS complex yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North America	Weekly

PA-code	Time stamp	Price type	Continuous forward	Description	Start date	Unit	Category	Frequency
PA0022382	0	18	0	Forties NWE PIMS complex yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North Europe	Weekly
PA0022382	0	19	0	Forties NWE PIMS complex yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North Europe	Weekly
PA0022382	0	50	0	Forties NWE PIMS complex yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North Europe	Weekly
PA0022383	0	18	0	Urals NWE PIMS simple yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North Europe	Weekly
PA0022383	0	19	0	Urals NWE PIMS simple yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North Europe	Weekly
PA0022383	0	50	0	Urals NWE PIMS simple yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North Europe	Weekly
PA0022384	0	18	0	Basrah Light USGC PIMS simple yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North America	Weekly
PA0022384	0	19	0	Basrah Light USGC PIMS simple yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North America	Weekly
PA0022384	0	50	0	Basrah Light USGC PIMS simple yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North America	Weekly
PA0022385	0	18	0	Basrah Light Asia PIMS simple yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->Asia-Pacific	Weekly
PA0022385	0	19	0	Basrah Light Asia PIMS simple yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->Asia-Pacific	Weekly
PA0022385	0	50	0	Basrah Light Asia PIMS simple yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->Asia-Pacific	Weekly
PA0022386	0	18	0	Basrah Light Asia PIMS complex yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->Asia-Pacific	Weekly
PA0022386	0	19	0	Basrah Light Asia PIMS complex yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->Asia-Pacific	Weekly
PA0022386	0	50	0	Basrah Light Asia PIMS complex yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->Asia-Pacific	Weekly
PA0022387	0	18	0	Basrah Light USGC PIMS complex yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North America	Weekly
PA0022387	0	19	0	Basrah Light USGC PIMS complex yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North America	Weekly
PA0022387	0	50	0	Basrah Light USGC PIMS complex yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North America	Weekly
PA0022388	0	18	0	Urals NWE PIMS complex yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North Europe	Weekly
PA0022388	0	19	0	Urals NWE PIMS complex yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North Europe	Weekly
PA0022388	0	50	0	Urals NWE PIMS complex yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North Europe	Weekly
PA0022389	0	18	0	Bonny Light NWE PIMS simple yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North Europe	Weekly
PA0022389	0	19	0	Bonny Light NWE PIMS simple yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North Europe	Weekly
PA0022389	0	50	0	Bonny Light NWE PIMS simple yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North Europe	Weekly
PA0022390	0	18	0	LLS USGC PIMS simple yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North America	Weekly
PA0022390	0	19	0	LLS USGC PIMS simple yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North America	Weekly
PA0022390	0	50	0	LLS USGC PIMS simple yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North America	Weekly
PA0022391	0	18	0	ESPO Asia PIMS simple yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->Asia-Pacific	Weekly
PA0022391	0	19	0	ESPO Asia PIMS simple yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->Asia-Pacific	Weekly
PA0022391	0	50	0	ESPO Asia PIMS simple yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->Asia-Pacific	Weekly
PA0022392	0	18	0	ESPO Asia PIMS complex yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->Asia-Pacific	Weekly
PA0022392	0	19	0	ESPO Asia PIMS complex yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->Asia-Pacific	Weekly
PA0022392	0	50	0	ESPO Asia PIMS complex yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->Asia-Pacific	Weekly

PA-code	Time stamp	Price type	Continuous forward	Description	Start date	Unit	Category	Frequency
PA0022393	0	18	0	LLS USGC PIMS complex yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North America	Weekly
PA0022393	0	19	0	LLS USGC PIMS complex yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North America	Weekly
PA0022393	0	50	0	LLS USGC PIMS complex yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North America	Weekly
PA0022394	0	18	0	Bonny Light NWE PIMS complex yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North Europe	Weekly
PA0022394	0	19	0	Bonny Light NWE PIMS complex yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North Europe	Weekly
PA0022394	0	50	0	Bonny Light NWE PIMS complex yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North Europe	Weekly
PA0022395	0	18	0	BTC NWE PIMS simple yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North Europe	Weekly
PA0022395	0	19	0	BTC NWE PIMS simple yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North Europe	Weekly
PA0022395	0	50	0	BTC NWE PIMS simple yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North Europe	Weekly
PA0022396	0	18	0	Bonny Light USGC PIMS simple yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North America	Weekly
PA0022396	0	19	0	Bonny Light USGC PIMS simple yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North America	Weekly
PA0022396	0	50	0	Bonny Light USGC PIMS simple yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North America	Weekly
PA0022397	0	18	0	Murban Asia PIMS simple yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->Asia-Pacific	Weekly
PA0022397	0	19	0	Murban Asia PIMS simple yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->Asia-Pacific	Weekly
PA0022397	0	50	0	Murban Asia PIMS simple yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->Asia-Pacific	Weekly
PA0022398	0	18	0	Murban Asia PIMS complex yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->Asia-Pacific	Weekly
PA0022398	0	19	0	Murban Asia PIMS complex yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->Asia-Pacific	Weekly
PA0022398	0	50	0	Murban Asia PIMS complex yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->Asia-Pacific	Weekly
PA0022399	0	18	0	Bonny Light USGC PIMS complex yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North America	Weekly
PA0022399	0	19	0	Bonny Light USGC PIMS complex yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North America	Weekly
PA0022399	0	50	0	Bonny Light USGC PIMS complex yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North America	Weekly
PA0022400	0	18	0	BTC NWE PIMS complex yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North Europe	Weekly
PA0022400	0	19	0	BTC NWE PIMS complex yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North Europe	Weekly
PA0022400	0	50	0	BTC NWE PIMS complex yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North Europe	Weekly
PA0022401	0	18	0	Basrah Light NWE PIMS simple yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North Europe	Weekly
PA0022401	0	19	0	Basrah Light NWE PIMS simple yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North Europe	Weekly
PA0022401	0	50	0	Basrah Light NWE PIMS simple yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North Europe	Weekly
PA0022402	0	18	0	Maya USGC PIMS simple yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North America	Weekly
PA0022402	0	19	0	Maya USGC PIMS simple yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North America	Weekly
PA0022402	0	50	0	Maya USGC PIMS simple yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North America	Weekly
PA0022405	0	18	0	Maya USGC PIMS complex yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North America	Weekly
PA0022405	0	19	0	Maya USGC PIMS complex yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North America	Weekly
PA0022405	0	50	0	Maya USGC PIMS complex yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North America	Weekly

PA-code	Time stamp	Price type	Continuous forward	Description	Start date	Unit	Category	Frequency
PA0022406	0	18	0	Basrah Light NWE PIMS complex yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North Europe	Weekly
PA0022406	0	19	0	Basrah Light NWE PIMS complex yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North Europe	Weekly
PA0022406	0	50	0	Basrah Light NWE PIMS complex yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North Europe	Weekly
PA0022403	0	18	0	Arab Light Asia PIMS simple yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->Asia-Pacific	Weekly
PA0022403	0	19	0	Arab Light Asia PIMS simple yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->Asia-Pacific	Weekly
PA0022404	0	18	0	Arab Light Asia PIMS complex yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->Asia-Pacific	Weekly
PA0022404	0	19	0	Arab Light Asia PIMS complex yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->Asia-Pacific	Weekly
PA0022407	0	18	0	Arab Heavy Asia PIMS simple yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->Asia-Pacific	Weekly
PA0022407	0	19	0	Arab Heavy Asia PIMS simple yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->Asia-Pacific	Weekly
PA0022408	0	18	0	Arab Heavy Asia PIMS complex yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->Asia-Pacific	Weekly
PA0022408	0	19	0	Arab Heavy Asia PIMS complex yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->Asia-Pacific	Weekly
PA0022409	0	18	0	Arab Light NWE PIMS simple yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North Europe	Weekly
PA0022409	0	19	0	Arab Light NWE PIMS simple yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North Europe	Weekly
PA0022410	0	18	0	Arab Light NWE PIMS complex yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North Europe	Weekly
PA0022410	0	19	0	Arab Light NWE PIMS complex yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North Europe	Weekly
PA0022411	0	18	0	Arab Heavy NWE PIMS simple yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North Europe	Weekly
PA0022411	0	19	0	Arab Heavy NWE PIMS simple yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North Europe	Weekly
PA0022412	0	18	0	Arab Heavy NWE PIMS complex yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North Europe	Weekly
PA0022412	0	19	0	Arab Heavy NWE PIMS complex yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North Europe	Weekly
PA0022413	0	18	0	Arab Light USGC PIMS simple yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North America	Weekly
PA0022413	0	19	0	Arab Light USGC PIMS simple yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North America	Weekly
PA0022414	0	18	0	Arab Light USGC PIMS complex yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North America	Weekly
PA0022414	0	19	0	Arab Light USGC PIMS complex yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North America	Weekly
PA0022415	0	18	0	Arab Medium USGC PIMS simple yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North America	Weekly
PA0022415	0	19	0	Arab Medium USGC PIMS simple yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North America	Weekly
PA0022416	0	18	0	Arab Medium USGC PIMS complex yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North America	Weekly
PA0022416	0	19	0	Arab Medium USGC PIMS complex yield netback	9-Aug-2019	USD/bl	->Crude->Refinery Netback->North America	Weekly

The translation between the PA-codes stopping on 2 August 2019 and the PA-codes starting on 9 August 2019 are as follows. This Excel file is included with the PDF data announcements to make mapping the codes simpler.

Old PA-code	New PA-code
PA0013037	PA0022371
PA0013038	PA0022372
PA0013039	PA0022373
PA0013040	PA0022374
PA0013041	PA0022375
PA0013042	PA0022376
PA0013043	PA0022377
PA0013044	PA0022378
PA0013045	PA0022379
PA0013046	PA0022380
PA0013047	PA0022381
PA0013048	PA0022382
PA0013049	PA0022383
PA0013050	PA0022384
PA0013051	PA0022385
PA0013052	PA0022386
PA0013053	PA0022387
PA0013054	PA0022388

Old PA-code	New PA-code
PA0013055	PA0022389
PA0013056	PA0022390
PA0013057	PA0022391
PA0013058	PA0022392
PA0013059	PA0022393
PA0013060	PA0022394
PA0013061	PA0022395
PA0013062	PA0022396
PA0013063	PA0022397
PA0013064	PA0022398
PA0013065	PA0022399
PA0013066	PA0022400
PA0013067	PA0022401
PA0013068	PA0022402
PA0013069	PA0022403
PA0013070	PA0022404
PA0013071	PA0022405
PA0013072	PA0022406

Old PA-code	New PA-code
PA0013073	PA0022407
PA0013074	PA0022408
PA0013075	PA0022409
PA0013076	PA0022410
PA0013077	PA0022411
PA0013078	PA0022412
PA0013079	PA0022413
PA0013080	PA0022414
PA0013081	PA0022415
PA0013082	PA0022416