



GOVERNMENT OF THE REPUBLIC OF TRINIDAD AND TOBAGO  
MINISTRY OF ENERGY AND ENERGY INDUSTRIES

# CONSOLIDATED MONTHLY BULLETINS

## JANUARY - JUNE 2018



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Image on Cover Page : Petroleum Company of Trinidad and Tobago Refinery at Pointe-a-Pierre [Source : [www.cnc3.co.tt](http://www.cnc3.co.tt)]

## LIST OF ABBREVIATIONS USED

### Company and Facility Names

ALNG	- Atlantic LNG	PCS (Urea)	- PCS Nitrogen Urea Plant
ATLAS	- Atlas Methanol Plant	PCSL	- Petroleum Contracting Services Limited
AUM-NH3	- Ammonia Plant from AUM Complex	PERENCO	- Perenco Trinidad & Tobago
AVDWL	- A&V Drilling and Workover Limited	PLNL	- Point Lisas Nitrogen Ltd (formerly Farmland MissChem Ltd)
AVOGL	- A&V Oil & Gas Ltd	POGTL	- Primera Oil & Gas T'dad Ltd
BHP	- BHP Billiton (Trinidad) Limited	PPGPL	- Phoenix Park Gas Processors Ltd
BOLT	- Beach Oilfield Trinidad Limited	PRIM	- Primera Oil and Gas Ltd (formerly PCOL)
BPTT	- BP Trinidad and Tobago LLC	PTRIN	- Petroleum Company of Trinidad and Tobago Ltd
CMC (M2)	- Caribbean Methanol Company Ltd (& Plant)	RALCOFF	- Ralph Coffman Rig
CNC	- Caribbean Nitrogen Company Ltd (& Plant)	REXLII	- Rowan EXL II Rig
DEEP INV	Deepwater Invictus	RG VI	- Rowan Gorilla VI
DE NOVO	- De Novo Energy	RPTTL	- Rocky Point T&T Ltd
DOV	- Diamond Ocean Victory Rig	RRDSL	- Range Resources Drilling Services Ltd
EOG	- EOG Resources Trinidad Ltd	SHELL	- Shell Trinidad Ltd
EOGUA	- EOG Resources Trinidad Block U (a) Unlimited	TEPGL	- Trinity Exploration & Production (Galeota)Ltd
FETL	- Fram Exploration Trinidad Limited	TEPL	- Trinity Exploration & Production Ltd (Oilbelt)
JOEDOUG	- Joe Douglas Rig	TETL	- Touchstone Exploration (Trinidad) Ltd
LOL	- Lease Operators Ltd	TITAN	- Titan Methanol Plant
MIV (M4)	- Methanol IV Company Ltd Plant	TMAR	- Trinmar Strategic Business Unit, Petrotrin
M5000 (M5)	- M5000 Methanol Plant	TRINGEN I & II	- Trinidad Nitrogen Company Ltd Plants I & II
MAERSK DEV	Maersk Developer	TTMC I (M1)	- Trinidad and Tobago Methanol Company Ltd Plant I
MEPR	- Massy Energy Production Resources	TTMC II (M3)	- Trinidad and Tobago Methanol Company Ltd Plant II
N2000	- Nitrogen 2000 Unlimited	TWSC	- Tallon Well Services Company
NGC	- The National Gas Company of Trinidad & Tobago Ltd	WSL	- Well Services Petroleum Company Limited
NHETT	- New Horizon Energy Trinidad and Tobago Ltd	WWL	- Walkerwell Limited
PCS 01,02,03,04	- PCS Nitrogen Ammonia Plants 1, 2, 3, 4	YARA	- Yara Trinidad Ltd

## LIST OF ABBREVIATIONS USED

### Units

BBLs	- Barrels
BCPD	- Barrels of condensate per day
BOPD	- Barrels of oil per day
BPCD	- Barrels per calendar day
FT (or ft)	- Feet
M <sup>3</sup>	- Cubic Metres
MMBTU	- Millions of British Thermal Units
MMSCF	- Millions of Standard Cubic feet
MMSCF/D	- Millions of Standard Cubic Feet per day
MSCF	- Thousands of Standard Cubic Feet
MT	- Metric Tonnes

### Products

CNG	- Compressed Natural Gas
LNG	- Liquefied Natural Gas
LPG	- Liquefied Petroleum Gas
NGLs	- Natural Gas Liquids
NH <sub>3</sub>	- Ammonia
UAN	- Urea Ammonium Nitrate

### Other

ATD	- Authorised Total Depth	LO	- Lease Operators
CB	- Central Block	NCMA	- North Coast Marine Area
DEV	- Development	PAP	- Pointe-a-Pierre
ECMA	- East Coast Marine Area	ST	- Sidetrack
EXPL	- Exploration	TD	- Total Depth
FO	- Farmouts	wef	- with effect from
IPSC	- Incremental Production Service Contract(s)	wo	- workover
KOP	- Kick-off Point		

TABLE 1A - CRUDE OIL & CONDENSATE PRODUCTION IN 2018 (BOPD)

	SHELL ECMA	BPTT	TMAR	PTRIN	PTRIN (LO)	PTRIN (IPSC)	PTRIN (FO)	TEPGL	PRIM	EOG	BOLT	TEPL	SHELL CB	MEPR	NHETT	BHP	PERENCO	SUBTOTAL		TOTAL
																		LAND	MARINE	
Jan-18	417	9,585	20,103	11,743	6,302	2,301	628	1,076	281	1,668	0	245	464	58	67	5,547	8,547	21,845	47,188	69,033
Feb-18	390	8,202	19,072	11,833	6,083	2,220	584	1,052	273	1,571	0	236	420	83	67	5,937	11,595	21,563	48,055	69,618
Mar-18	386	7,382	19,025	12,657	6,040	988	543	1,044	281	1,547	1	253	394	75	56	4,066	11,147	21,036	44,850	65,886
Apr-18	222	6,764	19,513	12,711	7,036	1,018	655	1,068	287	1,479	3	233	465	68	67	4,980	12,188	22,311	46,447	68,758
May-18	323	6,087	18,079	12,617	6,713	988	643	1,119	288	<i>1,425</i>	7	233	630	79	76	4,916	11,813	22,040	43,995	66,035
Jun-18	<i>438</i>	5,818	18,727	12,330	6,534	956	606	<i>912</i>	263	<i>1,437</i>	9	<i>234</i>	<i>687</i>	80	61	5,323	10,572	21,525	43,460	64,985
Jul-18																				
Aug-18																				
Sep-18																				
Oct-18																				
Nov-18																				
Dec-18																				
<b>AVG 2018</b>	<b>363</b>	<b>7,303</b>	<b>19,086</b>	<b>12,321</b>	<b>6,454</b>	<b>1,403</b>	<b>610</b>	<b>1,046</b>	<b>279</b>	<b>1,521</b>	<b>3</b>	<b>239</b>	<b>511</b>	<b>74</b>	<b>66</b>	<b>5,114</b>	<b>10,962</b>	<b>21,720</b>	<b>45,634</b>	<b>67,354</b>

NOTE: Figures in *RED/Italics* are preliminary.

NOTE: Totals may not be the exact sum of component figures due to rounding up/down.

TABLE 1B - CONDENSATE PRODUCTION (ONLY) IN 2018 (BOPD)						
	BPTT	SHELL ECMA	SHELL CB	EOG	NGC	TOTAL
Jan-18	9,117	417	464	1,668	181	11,847
Feb-18	7,744	390	420	1,571	125	10,250
Mar-18	7,024	386	394	1,547	160	9,510
Apr-18	6,719	222	465	1,479	128	9,013
May-18	6,069	323	630	<i>1,425</i>	93	8,540
Jun-18	5,802	<i>438</i>	<i>687</i>	<i>1,437</i>	107	8,470
Jul-18						
Aug-18						
Sep-18						
Oct-18						
Nov-18						
Dec-18						
<b>AVG 2018</b>	<b>7,077</b>	<b>363</b>	<b>511</b>	<b>1,521</b>	<b>132</b>	<b>9,604</b>

NOTE: NGC production is condensate received at Beachfield from NGC offshore pipelines.

NOTE: Figures in *RED/Italics* are preliminary.

TABLE 2A - DRILLING RIGS IN USE IN 2018

	MARINE				LAND		
	SHELL	BPTT	BHP	DE NOVO	PTRIN	PRIMERA	PTRIN (LO)
Jan-18	MAERSK DEV	-	-	WSL RIG # 110	PTRIN RIG #1	-	PCSL # 8
Feb-18	MAERSK DEV	JOEDOUG	-	WSL RIG # 110	PTRIN RIG #1	WWL Rig #1	PCSL # 8 & WSL # 4
Mar-18	MAERSK DEV	JOEDOUG	-	WSL RIG # 110	PTRIN RIG #1	-	PCSL # 8, WSL # 4, TALON 38
Apr-18	MAERSK DEV	JOEDOUG	-	WSL RIG # 110	PTRIN RIG #1	-	PCSL # 8, TALON 38
May-18	MAERSK DEV, RG VI	JOEDOUG	-	WSL RIG # 110	-	-	PCSL # 8, WSL # 4, TALON 38
Jun-18	MAERSK DEV, RG VI	JOEDOUG	DEEP INV	WSL RIG # 110	-	-	PCSL # 8, WSL # 4
Jul-18							
Aug-18							
Sep-18							
Oct-18							
Nov-18							
Dec-18							

**TABLE 2B - RIG DAYS IN 2018**

	<b>PTRIN</b>	<b>BPTT</b>	<b>PTRIN (LO)</b>	<b>PRIMERA</b>	<b>SHELL</b>	<b>BHP</b>	<b>DE NOVO</b>	<b>TOTAL</b>
Jan-18	22	0	14	0	28	0	31	<b>95</b>
Feb-18	18	5	42	11	19	0	28	<b>123</b>
Mar-18	23	31	37	0	27	0	31	<b>149</b>
Apr-18	3	30	49	0	30	0	30	<b>142</b>
May-18	0	31	27	0	35	0	31	<b>124</b>
Jun-18	0	30	18	0	51	19	23	<b>142</b>
Jul-18								
Aug-18								
Sep-18								
Oct-18								
Nov-18								
Dec-18								
<b>TOTAL</b>	<b>66</b>	<b>127</b>	<b>187</b>	<b>11</b>	<b>189</b>	<b>19</b>	<b>174</b>	<b>774</b>

**TABLE 2C - DEPTH DRILLED IN 2018 (FT)**

	<b>PTRIN</b>	<b>PTRIN (LO)</b>	<b>PRIMERA</b>	<b>BPTT</b>	<b>BHP</b>	<b>SHELL</b>	<b>DE NOVO</b>	<b>TOTAL</b>
Jan-18	3,649	3,630	0	0	0	8,105	8,030	<b>23,414</b>
Feb-18	4,289	13,178	360	2,357	0	8,691	2,434	<b>31,309</b>
Mar-18	2,934	11,228	0	12,165	0	0	0	<b>26,327</b>
Apr-18	0	9,518	0	4,324	0	651	5,173	<b>19,666</b>
May-18	0	7,954	0	3,142	0	10,700	3,272	<b>25,068</b>
Jun-18	0	4,691	0	7,269	8,349	8,467	1,492	<b>30,268</b>
Jul-18								
Aug-18								
Sep-18								
Oct-18								
Nov-18								
Dec-18								
<b>TOTAL</b>	<b>10,872</b>	<b>50,199</b>	<b>360</b>	<b>29,257</b>	<b>8,349</b>	<b>36,614</b>	<b>20,401</b>	<b>156,052</b>

TABLE 2D - WELLS STARTED IN 2018

COMPANY/OPERATOR	FIELD/BLOCK	WELL NUMBER	RIG NAME	CLASSIFICATION	DATE SPUDDED	DATE COMPLETED	TD (ft)	ATD (ft)
DE NOVO	IGUANA	IGU-IGUA-IGUANA A1XSTI	WSL Rig 110	DEV	24-Jan-18	17-Feb-18	5,662	6,248
SHELL	STARFISH	STARFISH -5	MAERSK DEV	DEV	7-Jan-18	6-May-18	8,756	8,562
PTRIN (LO) (PCSL)	PALO SECO	PAS-LAND-1510	PCSL #8	DEV	18-Jan-18	28-Mar-18	3,630	3,600
PTRIN	PT FORTIN CENTRAL	PFC-LAND-463	PTRIN RIG #1	DEV	10-Jan-18	1-Mar-18	3,649	3,649
PTRIN (LO)(PCSL)	PALO SECO	PAS-LAND-1511	PCSL #8	DEV	8-Feb-18	12-Mar-18	3,333	3,400
PTRIN (LO)(TETL)	PALO SECO	PAS-LAND-602	WSL # 4	DEV	3-Feb-18	-	5,378	5,400
PTRIN (LO)(OSL)	FYZABAD	FYZ-LAND-1051	WSL # 4	DEV	17-Feb-18	-	4,467	4,500
PTRIN	PT FORTIN CENTRAL	PFC-LAND-464	PTRIN RIG #1	DEV	8-Feb-18	8-Mar-18	3,165	3,200
PTRIN	PT FORTIN CENTRAL	PFC-LAND-465	PTRIN RIG #1	DEV	22-Feb-18	14-May-18	4,058	4,075
POGTL	FYZABAD	FYZ-LAND-305	WWL RIG # 1	DEV	6-Feb-18	24-Feb-18	205	200
POGTL	FYZABAD	FYZ-LAND-306	WWL RIG # 1	DEV	15-Feb-18	7-Mar-18	155	200
SHELL	STARFISH	STA-NOP-09ST1	MAERSK DEV	DEV	8-Feb-18	-	8,356	8,163
BPTT	PARANG	PAR-CAN-01	JOEDOUG	DEV	24-Feb-18	1-Apr-18	14,522	14,094
DE NOVO	IGUANA	IGU-IGUA-IGUANA A1XST1X	WSL Rig 110	DEV	17-Feb-18	13-Mar-18	5,796	6,083
PTRIN (LO)(TETL)	COORA	COO-LAND-370	PCSL #8	DEV	30-Mar-18	-	3,820	3,820
PTRIN (LO)(OSL)	PALO SECO	PAS-LAND-603	WSL #4	DEV	11-Mar-18	-	6,050	6,000
PTRIN (LO)(TETL)	FOREST RESERVE	FOR-LAND-1792	TALON 38	DEV	16-Mar-18	-	4,700	4,700
PTRIN (LO)(TETL)	COORA	COO-LAND-371	PCSL #8	DEV	23-Apr-18	-	4,530	4,530
PTRIN (LO)(TETL)	FOREST RESERVE	FOR-LAND-1793	TALON 38	DEV	11-Apr-18	-	4,700	4,700
BPTT	PARANG	PAR-CAN-01X	JOEDOUG	DEV	1-Apr-18	26-May-18	14,344	14,437
SHELL	STARFISH	STA-NOP-07	MAERSK DEV	DEV	19-May-18	-	8,885	8,974
DENOVO	IGUANA	IGU-IGUA-IGUANA A4	WSL Rig 110	DEV	14-May-18	22-Jun-18	4,764	5,096
PTRIN (LO)	FOREST RESERVE	FOR-LAND-1794	WSL RIG #4	DEV	18-May-18	-	4,900	4,900
SHELL	DOLPHIN	DOL-DOA-17	RG VI	DEV	19-May-18	-	10,282	11,054
BPTT	IMMORTELLE	IMM-CAN-01	JOEDOUG	DEV	27-May-18	-	10,411	18,139
BHP	BLOCK TTDA5	BTD5-NOP-VICTORIA_1	DEEP INV	EXP ( A3)	12-Jun-18	-	8,349	10,771
PTRIN (LO)(TETL)	COORA	COO-LAND-372	PCSL #8	DEV	15-Jun-18	-	4,691	6,600

TABLE 2E - WELL COMPLETIONS IN 2018

	WELL COMPLETIONS - OIL					WELL COMPLETIONS - GAS					WELL COMPLETIONS - OTHER*				TOTAL COMPLETIONS
	PTRIN (LO)	PTRIN (IPSC)	TMAR	PTRIN	TOTAL OIL	BPTT	SHELL	DE NOVO	EOG	TOTAL GAS	PRIM	BPTT	DE NOVO	TOTAL OTHER	
Jan-18	1	0	0	0	1	0	0	0	0	0	0	0	1	1	2
Feb-18	0	0	0	0	0	0	0	0	1	1	1	0	1	2	3
Mar-18	1	0	0	3	4	0	0	1	0	1	1	0	0	1	6
Apr-18	0	0	0	1	1	0	0	0	0	0	0	1	0	1	2
May-18	0	0	0	1	1	1	1	0	0	2	0	0	0	0	3
Jun-18	0	0	0	0	0	0	0	2	0	2	0	0	0	0	2
Jul-18															
Aug-18															
Sep-18															
Oct-18															
Nov-18															
Dec-18															
<b>TOTAL</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>5</b>	<b>7</b>	<b>1</b>	<b>1</b>	<b>3</b>	<b>1</b>	<b>6</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>5</b>	<b>18</b>

\*NOTE: Includes Abandonments.

**TABLE 2F - MEEI APPROVED WORKOVERS COMPLETED AND WINCH HOURS IN 2018**

	<b>TMAR</b>	<b>PERENCO</b>	<b>PTRIN</b>	<b>PRIM</b>	<b>PTRIN (IPSC)</b>	<b>PTRIN (FO)</b>	<b>PTRIN (LO)</b>	<b>SHELL (CB)</b>	<b>BPTT</b>	<b>TOTAL WORKOVERS COMPLETED</b>	<b>TOTAL WINCH HOURS</b>
Jan-18	1	0	8	1	0	0	6	0	2	18	2,539
Feb-18	1	0	9	2	0	0	6	0	2	20	2,409
Mar-18	1	4	9	0	0	0	0	0	0	14	2,925
Apr-18	0	0	7	1	0	0	4	1	0	13	1,398
May-18	1	0	4	0	1	1	8	0	0	15	2,074
Jun-18	0	0	2	1	1	0	4	0	0	8	517
Jul-18											
Aug-18											
Sep-18											
Oct-18											
Nov-18											
Dec-18											
<b>TOTAL</b>	<b>4</b>	<b>4</b>	<b>39</b>	<b>5</b>	<b>2</b>	<b>1</b>	<b>28</b>	<b>1</b>	<b>4</b>	<b>88</b>	<b>11,862</b>

TABLE 3A - NATURAL GAS PRODUCTION BY COMPANY IN 2018 (MMSCF/D)

COMPANY	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	AVG 2018
BPTT	2,276	2,070	2,206	2,109	2,007	2,193							2,144
TMAR	22	28	16	23	16	16							20
PTRIN	2	2	2	2	2	2							2
EOG	525	529	526	525	494	505							517
SHELL	555	548	530	468	533	609							541
BHP	470	405	392	416	416	458							426
PERENCO	21	35	34	45	45	45							37
<b>TOTAL</b>	<b>3,871</b>	<b>3,616</b>	<b>3,706</b>	<b>3,589</b>	<b>3,513</b>	<b>3,828</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3,687</b>

TABLE 3B - NATURAL GAS UTILIZATION BY SECTOR IN 2018 (MMSCF/D)

SECTOR	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	AVG 2018
Power Generation	224	218	233	236	245	251							235
Ammonia Manufacture	570	545	555	543	515	570							550
Methanol Manufacture	490	530	535	502	490	513							510
Refinery	63	65	51	57	77	80							65
Iron & Steel Manufacture	50	23	50	47	49	46							44
Cement Manufacture	8	12	13	16	13	13							12
Ammonia Derivatives	22	22	20	21	22	23							22
Gas Processing	25	25	24	24	24	24							24
Small Consumers	8	8	8	8	8	8							8
LNG	2,158	1,934	2,033	1,929	1,869	2,010							1,989
<b>TOTAL</b>	<b>3,618</b>	<b>3,381</b>	<b>3,523</b>	<b>3,384</b>	<b>3,312</b>	<b>3,538</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3,459</b>

NOTE: Figures in RED/Italics are preliminary.

NOTE (For Table 3A): 100 % of Joint Venture field production is reported by the Operator

NOTE (for Table 3B) : Ammonia Derivatives are Urea, UAN and Melamine

**TABLE 4A - CRUDE OIL IMPORTS IN 2018 (BBLS)**

CRUDE TYPE	COUNTRY	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	TOTAL
Coco	Congo	-	-	-	-	-	-							-
Es Sider	Libya	-	-	-	-	-								-
Hibernia	Canada	-	-	-	568,126	-	649,583							1,217,709
Lucina	Gabon	-	-	-	275,262	-	299,189							574,451
Lula	Brazil	-	-	-	-	-	-							-
Mandji	Gabon	-	-	450,353	-	-	-							450,353
Oguendjo	Gabon	-	-	738,672	467,584	716,234	454,494							2,376,984
Roncador	Brazil	-	-	-	-	-	-							-
Urals	Russia	-	-	-	-	723,619	-							723,619
Varandey	Russia	1,480,136	1,520,855	-	750,241	782,853	751,098							5,285,183
Vasconia	Colombia	997,455	950,832	999,803	501,017	525,039	497,946							4,472,092
Woodbourne	Barbados	-	59,388	-	-	29,954	-							89,342
<b>TOTAL</b>		<b>2,477,591</b>	<b>2,531,075</b>	<b>2,188,828</b>	<b>2,562,230</b>	<b>2,777,699</b>	<b>2,652,310</b>	-	-	-	-	-	-	<b>15,189,733</b>

**TABLE 4B - CRUDE OIL EXPORTS IN 2018 (BBLS)**

CRUDE TYPE	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	TOTAL
Galeota Mix	760,640	380,383	760,514	379,968	761,101	380,137							3,422,743
Calypso Crude	-	500,736	-	-	360,504	360,316							1,221,556
<b>TOTAL</b>	<b>760,640</b>	<b>881,119</b>	<b>760,514</b>	<b>379,968</b>	<b>1,121,605</b>	<b>740,453</b>	-	-	-	-	-	-	<b>4,644,299</b>

**TABLE 4C - PETROTRIN PAP REFINERY SALES IN 2018 (BBLs)**

LOCAL SALES (BBLs)													
PRODUCT	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	TOTAL
Liquefied Petroleum Gas	50,567	41,374	46,727	38,975	35,829	35,053							248,525
Motor Gasoline	360,572	339,584	380,609	374,892	370,900	357,644							2,184,201
Naphtha	-	-	-	-	-	-							-
Aviation Gasoline	-	-	-	-	-	-							-
Kerosine/Jet	87,629	84,370	79,219	86,010	87,468	73,046							497,742
Gas Oils /Diesel	269,909	258,231	287,626	298,419	327,494	294,372							1,736,051
Fuel Oils	-	-	-	-	-	-							-
Bitumen	2,903	2,838	5,378	7,244	9,894	4,913							33,170
Sulphur	-	-	-	-	-	-							-
Other Refined/Unfinished Prod.	-	-	-	-	-	-							-
<b>TOTAL</b>	<b>771,580</b>	<b>726,397</b>	<b>799,559</b>	<b>805,540</b>	<b>831,585</b>	<b>765,028</b>	-	-	-	-	-	-	4,699,689
EXPORT SALES (BBLs)													
PRODUCT	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	TOTAL
Liquefied Petroleum Gas	-	-	-	-	-	-							-
Motor Gasoline	1,005,573	755,644	925,871	980,587	829,082	986,646							5,483,403
Naphtha	-	-	-	-	-	-							-
Aviation Gasoline	-	-	-	-	-	-							-
Kerosine/Jet	323,716	394,588	370,577	271,252	183,785	269,805							1,813,723
Gas Oils /Diesel	775,604	646,447	507,328	395,968	700,754	682,118							3,708,219
Fuel Oils	1,248,281	1,120,921	1,007,127	1,159,048	1,548,517	1,127,820							7,211,714
Bitumen	-	-	-	-	-	-							-
Sulphur	-	-	-	-	-	-							-
Other Refined/Unfinished Prod.	-	-	-	-	349,471	-							349,471
<b>TOTAL</b>	<b>3,353,174</b>	<b>2,917,600</b>	<b>2,810,903</b>	<b>2,806,855</b>	<b>3,611,609</b>	<b>3,066,389</b>	-	-	-	-	-	-	18,566,530

**TABLE 4D - PETROTRIN PAP REFINERY OUTPUT IN 2018 (BBLs)**

PRODUCT	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	TOTAL
Liquefied Petroleum Gas	(46,926)	(44,561)	(24,636)	(58,319)	(43,230)	(66,762)							(284,434)
Motor Gasoline	1,343,388	1,332,786	1,004,494	1,306,855	1,275,791	1,462,705							7,726,019
Aviation Gasoline	10,231	(12,523)	11,502	(17,139)	16,685	(27,579)							(18,823)
Kerosine/Jet	462,519	399,438	351,652	368,809	340,291	341,731							2,264,440
Gas Oils / Diesel	859,103	1,055,116	661,271	895,288	881,652	1,138,096							5,490,526
Fuel Oils	1,231,887	1,149,702	1,299,730	1,340,295	1,443,315	1,175,515							7,640,444
Bitumen	315	7,058	1,470	7,184	3,393	10,807							30,227
Sulphur	-	-	-	-	-	-							-
Other Refined/Unfinished Prod.	(111,384)	(240,346)	321,311	16,040	(150,098)	(156,402)							(320,879)
Refinery Loss/(Gain)	80,201	(2,059)	112,695	(14,124)	85,784	81,787							344,284
Refinery Gas	69,519	63,918	60,286	75,596	79,883	83,524							432,726
<b>TOTAL</b>	<b>3,898,853</b>	<b>3,708,529</b>	<b>3,799,775</b>	<b>3,920,485</b>	<b>3,933,466</b>	<b>4,043,422</b>	-	-	-	-	-	-	23,304,530

**TABLE 4E - PETROTRIN PAP REFINERY THROUGHPUT IN 2018 (BBLs & BOPD)**

	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	AVG 2018
Throughput (BBLs)	3,898,853	3,708,529	3,799,775	3,920,485	3,933,466	4,043,422							3,884,088
Throughput (BOPD)	125,769	132,447	122,573	130,683	126,886	134,781							128,857

**TABLE 5A - PRODUCTION AND EXPORT OF NGLS FROM PPGPL IN 2018 (BBLs)**

<b>PRODUCTION (BBLs)</b>													
<b>PRODUCT</b>	<b>Jan-18</b>	<b>Feb-18</b>	<b>Mar-18</b>	<b>Apr-18</b>	<b>May-18</b>	<b>Jun-18</b>	<b>Jul-18</b>	<b>Aug-18</b>	<b>Sep-18</b>	<b>Oct-18</b>	<b>Nov-18</b>	<b>Dec-18</b>	<b>TOTAL</b>
<b>Propane</b>	305,708	239,449	275,929	237,554	243,227	247,120							<b>1,548,987</b>
<b>Butane</b>	255,385	200,401	234,693	200,758	203,572	214,403							<b>1,309,212</b>
<b>Natural Gasoline</b>	335,360	268,260	318,175	289,187	279,277	300,210							<b>1,790,469</b>
<b>TOTAL</b>	<b>896,453</b>	<b>708,110</b>	<b>828,797</b>	<b>727,499</b>	<b>726,076</b>	<b>761,733</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4,648,668</b>
<b>EXPORT (BBLs)</b>													
<b>PRODUCT</b>	<b>Jan-18</b>	<b>Feb-18</b>	<b>Mar-18</b>	<b>Apr-18</b>	<b>May-18</b>	<b>Jun-18</b>	<b>Jul-18</b>	<b>Aug-18</b>	<b>Sep-18</b>	<b>Oct-18</b>	<b>Nov-18</b>	<b>Dec-18</b>	<b>TOTAL</b>
<b>Propane</b>	203,018	427,178	287,090	248,322	178,741	168,806							<b>1,513,155</b>
<b>Butane</b>	33,904	228,214	189,415	142,952	69,118	141,025							<b>804,628</b>
<b>Natural Gasoline</b>	324,929	315,061	315,128	319,716	320,307	310,624							<b>1,905,765</b>
<b>TOTAL</b>	<b>561,851</b>	<b>970,453</b>	<b>791,633</b>	<b>710,990</b>	<b>568,166</b>	<b>620,455</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4,223,548</b>

NOTE: Local NGL sales from ALNG are to mainly PPGPL. These sold NGL volumes have been included in PPGPL's production data.

**TABLE 5B - PRODUCTION AND EXPORT OF AMMONIA IN 2018 (MT)**

<b>PRODUCTION (MT)</b>													
<b>PLANT</b>	<b>Jan-18</b>	<b>Feb-18</b>	<b>Mar-18</b>	<b>Apr-18</b>	<b>May-18</b>	<b>Jun-18</b>	<b>Jul-18</b>	<b>Aug-18</b>	<b>Sep-18</b>	<b>Oct-18</b>	<b>Nov-18</b>	<b>Dec-18</b>	<b>TOTAL</b>
YARA	23,708	23,704	25,581	24,727	24,067	20,214							142,001
TRINGEN I	37,320	26,376	36,081	42,981	43,578	43,022							229,358
TRINGEN II	47,096	43,125	43,800	7,675	0	22,808							164,504
PCS (01,02,03,04)	177,182	167,662	184,780	157,913	168,888	163,301							1,019,726
PLNL	60,846	54,451	59,138	58,187	34,894	26,356							293,872
CNC	34,570	0	0	37,663	52,259	53,590							178,082
N2000	55,370	49,987	55,005	53,215	30,153	45,159							288,889
AUM-NH3	6,273	7,802	51,776	4,398	3,455	6,414							80,118
<b>TOTAL</b>	<b>442,365</b>	<b>373,107</b>	<b>456,161</b>	<b>386,759</b>	<b>357,294</b>	<b>380,864</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2,396,550</b>

  

<b>EXPORT (MT)</b>													
<b>PLANT</b>	<b>Jan-18</b>	<b>Feb-18</b>	<b>Mar-18</b>	<b>Apr-18</b>	<b>May-18</b>	<b>Jun-18</b>	<b>Jul-18</b>	<b>Aug-18</b>	<b>Sep-18</b>	<b>Oct-18</b>	<b>Nov-18</b>	<b>Dec-18</b>	<b>TOTAL</b>
YARA	12,399	22,681	30,272	37,060	16,222	20,181							138,815
TRINGEN I	25,385	44,690	31,951	44,817	28,006	55,023							229,872
TRINGEN II	39,143	31,755	63,709	9,351	2,562	16,407							162,927
PCS (01,02,03,04)	141,203	111,197	146,651	94,226	170,275	143,421							806,973
PLNL	72,361	64,993	86,856	44,683	31,736	41,020							341,649
CNC	20,569	31,714	40,164	36,263	55,398	75,615							259,723
N2000	33,436	34,971	56,450	53,345	71,080	25,714							274,996
AUM-NH3	0	0	0	0	0	0							0
<b>TOTAL</b>	<b>344,496</b>	<b>342,001</b>	<b>456,053</b>	<b>319,745</b>	<b>375,279</b>	<b>377,381</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2,214,955</b>

**TABLE 5C - PRODUCTION AND EXPORT OF DOWNSTREAM AMMONIA PRODUCTS IN 2018 (MT)**

<b>PRODUCTION (MT)</b>													
<b>PRODUCT</b>	<b>Jan-18</b>	<b>Feb-18</b>	<b>Mar-18</b>	<b>Apr-18</b>	<b>May-18</b>	<b>Jun-18</b>	<b>Jul-18</b>	<b>Aug-18</b>	<b>Sep-18</b>	<b>Oct-18</b>	<b>Nov-18</b>	<b>Dec-18</b>	<b>TOTAL</b>
<b>Urea</b>	62,873	55,360	65,256	57,621	62,755	57,574							<b>361,439</b>
<b>UAN</b>	103,468	100,188	31,079	54,179	120,483	110,073							<b>519,470</b>
<b>Melamine</b>	1,939	2,287	358	2,594	2,433	2,770							<b>12,381</b>
<b>TOTAL</b>	<b>168,280</b>	<b>157,835</b>	<b>96,693</b>	<b>114,394</b>	<b>185,671</b>	<b>170,417</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>893,290</b>
<b>EXPORT (MT)</b>													
<b>PRODUCT</b>	<b>Jan-18</b>	<b>Feb-18</b>	<b>Mar-18</b>	<b>Apr-18</b>	<b>May-18</b>	<b>Jun-18</b>	<b>Jul-18</b>	<b>Aug-18</b>	<b>Sep-18</b>	<b>Oct-18</b>	<b>Nov-18</b>	<b>Dec-18</b>	<b>TOTAL</b>
<b>Urea</b>	57,750	44,086	69,245	67,200	61,059	70,665							<b>370,006</b>
<b>UAN</b>	77,145	76,146	69,983	94,642	114,475	103,975							<b>536,366</b>
<b>Melamine</b>	1,280	2,020	840	2,200	2,320	2,640							<b>11,300</b>
<b>TOTAL</b>	<b>136,175</b>	<b>122,252</b>	<b>140,068</b>	<b>164,042</b>	<b>177,854</b>	<b>177,280</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>917,672</b>

**TABLE 5D - PRODUCTION AND EXPORT OF METHANOL IN 2018 (MT)**

PRODUCTION (MT)													
PLANT	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	TOTAL
TTMC I	0	0	0	0	0	0							0
CMC	3,949	0	0	0	0	0							3,949
TTMC II	44,589	41,352	50,872	41,414	46,420	49,535							274,182
MIV	43,500	44,381	50,368	45,538	47,462	46,662							277,911
TITAN	64,729	64,275	68,670	56,695	67,230	57,682							379,281
ATLAS	117,908	140,849	155,268	145,193	118,700	148,008							825,926
M5000	150,902	132,543	159,058	150,325	155,844	136,696							885,368
<b>TOTAL</b>	<b>425,577</b>	<b>423,400</b>	<b>484,236</b>	<b>439,165</b>	<b>435,656</b>	<b>438,583</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2,646,617</b>
EXPORT (MT)													
PLANT	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	TOTAL
TTMC I	17,493	0	0	0	0	0							17,493
CMC	58,895	86,906	62,938	90,187	103,055	88,990							490,971
TTMC II	59,052	70,554	68,223	82,152	21,566	44,825							346,372
MIV	0	0	0	0	0	0							0
TITAN	84,052	61,598	79,271	57,374	69,618	56,826							408,739
ATLAS	132,074	142,959	138,999	162,003	129,841	119,703							825,579
M5000	120,273	46,163	146,899	102,187	107,689	100,940							624,151
<b>TOTAL</b>	<b>471,839</b>	<b>408,180</b>	<b>496,330</b>	<b>493,903</b>	<b>431,769</b>	<b>411,284</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2,713,305</b>

**TABLE 5E (I) - PRODUCTION OF LNG FROM ALNG IN 2018 (M<sup>3</sup>)**

	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	TOTAL
<b>Train 1</b>	715,842	542,405	375,924	216,346	566,139	610,362							<b>3,027,018</b>
<b>Train 2</b>	577,267	504,805	561,478	623,140	647,536	644,358							<b>3,558,584</b>
<b>Train 3</b>	444,282	306,755	653,349	669,303	666,510	628,926							<b>3,369,125</b>
<b>Train 4</b>	955,259	822,856	970,743	816,851	440,067	639,473							<b>4,645,249</b>
<b>TOTAL</b>	<b>2,692,650</b>	<b>2,176,821</b>	<b>2,561,494</b>	<b>2,325,640</b>	<b>2,320,252</b>	<b>2,523,119</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>14,599,976</b>

**TABLE 5E (II) - PRODUCTION OF LNG FROM ALNG IN 2018 (MMBTU)\*\***

	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	TOTAL
<b>Train 1</b>	16,141,736	12,201,726	8,485,808	4,798,295	12,730,541	13,757,437							<b>68,115,543</b>
<b>Train 2</b>	12,858,045	11,216,161	12,519,050	13,958,211	14,509,598	14,425,565							<b>79,486,631</b>
<b>Train 3</b>	9,962,491	6,949,995	14,607,316	14,986,163	14,926,025	14,105,804							<b>75,537,792</b>
<b>Train 4</b>	21,484,539	18,437,076	21,812,886	18,371,061	9,846,499	14,267,794							<b>104,219,855</b>
<b>TOTAL</b>	<b>60,446,811</b>	<b>48,804,958</b>	<b>57,425,060</b>	<b>52,113,729</b>	<b>52,012,663</b>	<b>56,556,600</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>327,359,822</b>

\*\* NOTE : M<sup>3</sup> converted to MMBTU ; conversion factors vary by train & by month.

**TABLE 5F(I) - LNG SALES & DELIVERIES FROM ALNG IN 2018 (MMBTU)**

	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	TOTAL
Train 1	14,469,645	11,666,617	11,431,271	11,729,741	11,901,088	15,283,598							76,481,960
Train 2	12,368,319	8,092,248	14,760,521	14,495,049	12,214,082	15,600,737							77,530,956
Train 3	8,770,794	11,572,267	13,712,876	9,602,603	7,332,745	17,069,494							68,060,779
Train 4	25,771,026	18,670,700	16,261,533	16,480,982	16,599,764	12,244,363							106,028,368
<b>TOTAL</b>	<b>61,379,784</b>	<b>50,001,832</b>	<b>56,166,201</b>	<b>52,308,375</b>	<b>48,047,679</b>	<b>60,198,192</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>328,102,063</b>

**TABLE 5F(II) - LNG SALES & DELIVERIES FROM ALNG IN 2018 (M<sup>3</sup>)\*\*\***

	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	TOTAL
Train 1	641,689	518,618	506,409	528,872	529,252	678,072							3,402,912
Train 2	555,281	364,207	662,008	647,106	545,091	696,850							3,470,543
Train 3	391,138	510,770	613,343	428,866	327,438	761,066							3,032,621
Train 4	1,145,847	833,283	723,690	732,811	741,889	548,784							4,726,304
<b>TOTAL</b>	<b>2,733,955</b>	<b>2,226,878</b>	<b>2,505,450</b>	<b>2,337,654</b>	<b>2,143,671</b>	<b>2,684,772</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>14,632,380</b>

\*\*\* NOTE : MMBTU converted to M<sup>3</sup> ; conversion factors vary by train & by month. Figures in *RED/Italics* are preliminary.

**TABLE 5G - NGL SALES & DELIVERIES FROM ALNG IN 2018 (BBLs)**

NGL SALES AND DELIVERIES (BBLs)													
	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	TOTAL
Train 1	157,985	111,463	63,295	43,115	105,028	105,844							586,730
Train 2	45,426	31,992	47,160	66,533	78,871	79,641							349,623
Train 3	89,299	56,094	135,061	105,924	80,112	85,296							551,786
Train 4	198,845	178,086	206,262	169,597	97,151	120,825							970,766
<b>TOTAL</b>	<b>491,555</b>	<b>377,635</b>	<b>451,778</b>	<b>385,169</b>	<b>361,162</b>	<b>391,606</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2,458,905</b>

NOTE: Local NGL sales from ALNG are to mainly PPGPL. Local NGL deliveries are to Petrotrin. Sold & delivered NGL volumes have been included in both PPGPL's & Petrotrin's production data.