



2016 Plan for Production activity Rompetrol Refinery

Petromidia Refinery

The main assumptions for production plan and sales plan 2016

Production Plan for PEM – 2016

TOTAL THROUGHPUT: 5,349,280 mt out of which: 4,702,500 mt crude oil, 120,000 mt crude equivalent (Straight Run Gasoil) and 526,781 mt other feedstock out of which 304,000 Straight Run Gasoil in Hydrotreaters.

1. Feedstock

The types of crude oil planned to be processed in 2016 (mt/year):

- REBCO: 4,374,001
- CPC Crude Oil: 328,498
- Straight Run Gasoil: 120,000

Crude unit throughput: 4,822,500 mt/year (13,546 mt/day for 356 processing days).

Density and Sulphur (average value) for Crude unit throughput resulted after PIMS simulation: 0.861g/cm³, 1.30% wt sulphur content.

2. Commercial Assumptions

2.1 Prices

2.1.1 Crude oil price (Brent Dtd – 40.1\$/bbl and Ural RCMB – 39.1 \$/bbl)

2.1.2 Products (cracks to Brent: Prem Unl 10 ppm FOB Med – 90.2 \$/mt and ULSD 10 ppm FOB Med – 88.1 \$/mt).

2.1.3 2016 Utilities costs are estimated to be **9.02\$/mt**, meaning **43.5 mil \$**.



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2.1.3 2016 Utilities costs are estimated to be **9.02\$/mt**, meaning **43.5 mil \$**.

2.2 Structure of products

| Product | domestic | export | Total |
|-----------------|-----------|-----------|-----------|
| | mt/year | mt/year | mt/year |
| Auto Gasoline | 269,484 | 887,232 | 1,156,716 |
| Jet+Auto Diesel | 1,461,406 | 1,385,417 | 2,846,823 |
| Fuel oil | 132,999 | 0 | 132,999 |
| Propylene | 125,444 | - | 125,444 |
| Coke | 215,296 | 21,600 | 236,896 |
| Sulphur | - | 52,870 | 52,870 |
| Other products | 592,123 | 67,270 | 659,392 |

2.2.1 Auto fuels for domestic market (mt/year) – total 1,670,124

2.2.2 Auto fuels for export (mt/year)- total 2,165,599

2.2.3 Products to be delivered to Vega refinery (mt/year)

- products to Vega:
 - 167,735 Raffinate
 - 41,792 C5-C6 cut
 - 10,200 Hydrotreated kerosene
 - 2,571 Slurry
 - 89,306 Fuel oil

2.2.4 Others:

- Jet A1- 129,950 mt/year (for domestic market)

2016 White Products yield is 85.80 % wt.

Note: Regarding: raffinate, C5-C6 cut, hydrotreated kerosene, slurry and fuel oil, these products will be transferred to Vega Refinery to be processed in order to obtain valuable products.

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The other products are sold on domestic market through: Rompetrol Gas, Rompetrol Downstream, Air BP Sales, Polisan, OMV-Petrom, Carpatcement, Electrocarbon, Lafarge, Elsid.

On the export market the products are sold to: KMG Trading (Grecia, Georgia, Bulgaria, Turcia, Liban), Rompetrol Moldova, Rompetrol Georgia, Rompetrol Bulgaria, Rompetrol Ucraina and others.

Auto fuels are sold 42.3% on domestic market and 57.7% on export market.

3. Unfinished products

The production plan was done without consumption/accumulation of unfinished products.

4. Products Specifications / Technical Assumptions

Gasoline production for domestic market contents 5.0% v/v Bio-ethanol according with internal reglementation.

Diesel production for domestic market contents 6.5% v/v Bio-Diesel and Arctic Diesel production for domestic market without Biocomponent on winter time.

In April 2016- 10 days shut down for Diesel Hydrotreater days in order to replace the catalyst.

In September 2016 Refinery shut down for 10 days due to decoking of the heater in Delayed Coker Unit.

5. Operational Results

- Gross Refinery P/L: 297,831 k\$
- Gross Refinery Margin P/L: 55.68 \$/mt

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The table below shows a summary of 2016 PEM-production plan:

| PEM 2016 | tons/year |
|----------------------------|------------------|
| Total Feedstock | 5,349,280 |
| Crude oil | 4,822,500 |
| Other raw materials | 526,781 |
| Finished Products | 5,211,140 |
| Gasoline | 1,324,451 |
| Jet | 247,200 |
| Diesel | 2,602,194 |
| Fuel oil | 132,999 |
| Gases | 240,630 |
| Propylene | 125,444 |
| LPG | 248,456 |
| Petroleum coke | 236,896 |
| Sulphur | 52,870 |
| Total Loss | 138,140 |

Operational Director

Abzal Doszhanov

Refinery Manager

Nicolae Nitu

PPO BU Refining Director

Raluca Lainer

| | | | | | |
|--------------------------------------|------------|-------------|--------------|----------------|-----------|
| REFINERY Production Budget_2016 | Brent Dtd | | \$ 40.10 | 7 567 | \$ 303.44 |
| | | | bbl | CF | mt |
| | Ural | | \$ 39.10 | 7 310 | \$ 285.82 |
| | Crude Unit | | 13,546 | | to/day |
| | Total | | | | |
| No. of Days: | 356 | | | | |
| REFINERY | Yield % | Quantity mt | Price USD/mt | Value (,000\$) | |
| TOTAL FEEDSTOCK : | 100 | 5,349,280 | \$ 348.00 | \$ 1,861,563 | |
| CRUDE OIL/UNIT | 90.15 | 4,822,500 | \$ 332.40 | \$ 1,602,975 | |
| Sour | 81.77 | 4,374,001 | \$ 327.74 | \$ 1,433,546 | |
| REBCO CRUDE OIL | 81.77 | 4,374,001 | \$ 327.74 | \$ 1,433,546 | |
| Sweet | 6.14 | 328,498 | \$ 357.51 | \$ 117,442 | |
| CPC BLEND CRUDE OIL | 6.14 | 328,498 | \$ 357.51 | \$ 117,442 | |
| Crude equivalent | 2.24 | 120,000 | \$ 433.22 | \$ 51,987 | |
| Gasoil | 2.24 | 120,000 | \$ 433.22 | \$ 51,987 | |
| OTHER FEEDSTOCK : | 9.85 | 526,781 | \$ 490.88 | \$ 258,588 | |
| Naphtha | 0.00 | - | \$ - | \$ - | |
| BIOETHANOL | 0.30 | 16,179 | \$ 496.20 | \$ 8,028 | |
| ETBE | 0.02 | 972 | \$ 859.51 | \$ 836 | |
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| Methanol | 0.28 | 14,902 | \$ 359.00 | \$ 5,350 | |
| METHANOL | 0.28 | 14,902 | \$ 359.00 | \$ 5,350 | |
| MTBE | 0.82 | 43,960 | \$ 668.11 | \$ 29,370 | |
| MTBE FEEDSTOCK | 0.82 | 43,960 | \$ 668.11 | \$ 29,370 | |
| Chemical grade gas | 6.22 | 332,886 | \$ 422.08 | \$ 140,505 | |
| PROPANE | 0.54 | 28,886 | \$ 306.00 | \$ 8,839 | |
| GASOIL | 5.68 | 304,000 | \$ 433.11 | \$ 131,666 | |
| Biodiesel | 1.19 | 63,634 | \$ 869.45 | \$ 55,327 | |
| BIODIESEL | 1.19 | 63,634 | \$ 869 | \$ 55,327 | |
| Imported Methane | 1.01 | 54,218 | \$ 351.30 | \$ 19,047 | |
| NATURAL GAS FEEDSTOCK | 1.01 | 54,218 | \$ 351.30 | \$ 19,047 | |
| Other | 0.00 | 29 | \$ 4,275.05 | \$ 125 | |
| DYEGUARD GREEN MCROM | 0.00 | 0.2400 | \$ 11,984.98 | \$ 2,876 | |
| DYEGUARD BLUE MCR2Y | 0.00 | 2.7500 | \$ 8,756.38 | \$ 24,080 | |
| KEROPUR DP 5205 | 0.00 | 13.1932 | \$ 4,047.10 | \$ 53,394 | |
| KEROPUR 3576 | 0.00 | 13.1194 | \$ 3,423.89 | \$ 44,919 | |
| FINISHED PRODUCTS: | 97.42 | 5,211,140 | \$ 414.38 | \$ 2,159,394 | |
| GASOLINE | 24.76 | 1,324,451 | \$ 439.40 | \$ 581,959 | |
| Natural gasoline | 2.18 | 116,541 | \$ 433.80 | \$ 50,556 | |
| 92 RON GASOLINE | 2.18 | 116,541 | \$ 433.80 | \$ 50,556 | |
| Unleaded Gasoline | 19.45 | 1,040,176 | \$ 461.21 | \$ 479,743 | |
| EFIX 95 GASOLINE | 0.65 | 34,532 | \$ 496.90 | \$ 17,159 | |
| ---export | 0.18 | 9,601 | \$ 489.33 | \$ 4,698 | |
| ---intern | 0.47 | 24,931 | \$ 499.82 | \$ 12,461 | |
| EURO PLUS GASOLINE 10 PPM | 11.02 | 589,545 | \$ 446.92 | \$ 263,478 | |
| ---export | 11.02 | 589,545 | \$ 446.92 | \$ 263,478 | |
| ---intern | 0.00 | 0 | \$ - | \$ - | |
| EURO PLUS GASOLINE BIO | 5.29 | 282,869 | \$ 488.45 | \$ 138,168 | |
| ---export | 0.86 | 46,234 | \$ 480.18 | \$ 22,201 | |
| ---intern | 4.42 | 236,635 | \$ 490.07 | \$ 115,967 | |
| 98 RON GASOLINE | 0.13 | 6,785 | \$ 556.27 | \$ 3,774 | |
| ---export | 0.00 | 0 | \$ - | \$ - | |
| ---intern | 0.13 | 6,785 | \$ 556.27 | \$ 3,774 | |
| EFIX 5 98 GASOLINE | 0.04 | 1,911 | \$ 543.98 | \$ 1,040 | |
| ---export | 0.01 | 778 | \$ 519.33 | \$ 404 | |
| ---intern | 0.02 | 1,133 | \$ 560.91 | \$ 636 | |
| EURO STANDARD GASOLINE | 2.03 | 108,567 | \$ 445.66 | \$ 48,384 | |
| EURO SUPER 98 GASOLINE | 0.30 | 15,967 | \$ 484.84 | \$ 7,741 | |
| Gasoline for chemical use | 3.14 | 167,735 | \$ 307.99 | \$ 51,660 | |
| RAFINATE | 3.14 | 167,735 | \$ 307.99 | \$ 51,660 | |
| JET FUEL | 4.62 | 247,200 | \$ 464.10 | \$ 114,726 | |
| Jet | 4.62 | 247,200 | \$ 464.10 | \$ 114,726 | |
| AVIATION TURBINE FUEL JET A1- export | 2.00 | 107,050 | \$ 454.91 | \$ 48,698 | |
| ---Intern | 2.43 | 129,950 | \$ 473.31 | \$ 61,507 | |
| ---Intern- for VGA | 0.19 | 10,200 | \$ 443.28 | \$ 4,521 | |
| DIESEL FUEL | 48.65 | 2,602,194 | \$ 464.35 | \$ 1,208,333 | |
| Diesel Fuel | 48.60 | 2,599,623 | \$ 464.65 | \$ 1,207,903 | |
| EURO 5 DIESEL | 22.61 | 1,209,220 | \$ 436.74 | \$ 528,119 | |
| ---export | 22.61 | 1,209,220 | \$ 436.74 | \$ 528,119 | |
| ---Intern | 0.00 | 0 | \$ - | \$ - | |
| EURO 5 DIESEL (SUPER DIESEL EURO 5) | 16.64 | 890,009 | \$ 495.69 | \$ 441,168 | |
| export | 0.00 | 0 | \$ - | \$ - | |
| Intern | 16.64 | 890,009 | \$ 495.69 | \$ 441,168 | |

| REFINERY Production Budget_2016 | Brent Dtd | | \$ 40.10 | 7.567 | \$ 303.44 |
|--|------------|-------------|--------------|----------------|-----------|
| | | | bbl | CF | mt |
| | Ural | | \$ 39.10 | 7.310 | \$ 285.82 |
| | Crude Unit | | 13,546 | | to/day |
| Total | | | | | |
| No. of Days: | 356 | | | | |
| REFINERY | Yield % | Quantity mt | Price USD/mt | Value (,000\$) | |
| MOTORINA EURO 5 (WINTER DIESEL) | 7.13 | 381,537 | \$ 471.86 | \$ 180,033 | |
| export | 0.72 | 38,620 | \$ 440.22 | \$ 17,002 | |
| intern | 6.41 | 342,916 | \$ 475.43 | \$ 163,031 | |
| 51 EFIX DIESEL | 1.40 | 74,870 | \$ 488.26 | \$ 36,556 | |
| ---export | 0.55 | 29,199 | \$ 460.71 | \$ 13,452 | |
| ---intern with bio component | 0.85 | 45,671 | \$ 505.88 | \$ 23,104 | |
| 51 EFIX WINTER DIESEL | 0.26 | 13,917 | \$ 480.46 | \$ 6,686 | |
| ---export | 0.00 | 0 | \$ - | \$ - | |
| ---intern with bio component | 0.26 | 13,917 | \$ 480.46 | \$ 6,686 | |
| 55 DIESEL | 0.46 | 24,620 | \$ 512.13 | \$ 12,609 | |
| ---export | 0.00 | 0 | \$ - | \$ - | |
| ---intern | 0.46 | 24,620 | \$ 512.13 | \$ 12,609 | |
| 55 EFIX S DIESEL | 0.10 | 5,450 | \$ 501.23 | \$ 2,732 | |
| ---export | 0.02 | 1,328 | \$ 461.71 | \$ 613 | |
| ---intern | 0.08 | 4,123 | \$ 513.96 | \$ 2,119 | |
| Slurry | 0.05 | 2,571 | \$ 167.03 | \$ 429 | |
| SLURRY | 0.05 | 2,571 | \$ 167.03 | \$ 429 | |
| FUEL OIL | 2.49 | 132,999 | \$ 154.16 | \$ 20,502 | |
| Fuel Oil | 2.49 | 132,999 | \$ 154.16 | \$ 20,502 | |
| FUEL OIL | 1.67 | 89,306 | \$ 135.11 | \$ 12,066 | |
| FCC RESIDUE | 0.72 | 38,693 | \$ 195.66 | \$ 7,571 | |
| HEAVY FUEL OIL TYPE 1 MARKED | 0.09 | 5,000 | \$ 173.12 | \$ 866 | |
| Vacuum distillate/VGO | 0.00 | - | \$ - | \$ - | |
| GASES | 4.50 | 240,630 | \$ 283.10 | \$ 68,122 | |
| Chemical grade gas | 0.78 | 41,863 | \$ 302.94 | \$ 12,682 | |
| PROPANE FUEL | 0.00 | 70 | \$ 323.47 | \$ 23 | |
| ---export | 0.00 | 0 | \$ - | \$ - | |
| ---intern | 0.00 | 70 | \$ 323.47 | \$ 23 | |
| C5-C6 CUT | 0.78 | 41,793 | \$ 302.91 | \$ 12,660 | |
| Fuel gas | 3.72 | 198,767 | \$ 278.92 | \$ 55,440 | |
| RAFINERY FUEL GASES (SELLING) | 3.72 | 198,767 | \$ 278.92 | \$ 55,440 | |
| PROPYLENE | 2.35 | 125,444 | \$ 669.13 | \$ 83,938 | |
| Propylene | 2.35 | 125,444 | \$ 669.13 | \$ 83,938 | |
| Propane-Propylene | 2.35 | 125,444 | \$ 669.13 | \$ 83,938 | |
| LIQUIFIED PETROLEUM GAS | 4.64 | 248,456 | \$ 230.18 | \$ 57,189 | |
| Liquified petroleum gas | 3.62 | 193,493 | \$ 242.72 | \$ 46,965 | |
| LPG (LIQUIFIED PETROLEUM GASES) | 0.23 | 12,306 | \$ 183.02 | \$ 2,252 | |
| ---export | 0.23 | 12,306 | \$ 183.02 | \$ 2,252 | |
| ---intern | 0.00 | 0 | \$ - | \$ - | |
| Bottled LPG for Domestic Use | 1.90 | 101,803 | \$ 226.99 | \$ 23,108 | |
| AUTOMOTIVE LPG FUEL | 1.48 | 79,384 | \$ 272.16 | \$ 21,605 | |
| Propane-butane Commercial | 1.03 | 54,963 | \$ 186.01 | \$ 10,224 | |
| Propane-Butane Commercial | 1.03 | 54,963 | \$ 186.01 | \$ 10,224 | |
| ---export | 1.03 | 54,963 | \$ 186.01 | \$ 10,224 | |
| COMMERCIAL PROPANE-BUTANE TYPE 30/70 | 0.00 | 0 | \$ - | \$ - | |
| PETROLEUM COKE | 4.43 | 236,896 | \$ 92.28 | \$ 21,861 | |
| Petroleum Coke | 4.43 | 236,896 | \$ 92.28 | \$ 21,861 | |
| GREEN PETROLEUM COKE TYPE 4 | 4.43 | 236,896 | \$ 92.28 | \$ 21,861 | |
| ---export | 0.40 | 21,600 | \$ 115.00 | \$ 2,484 | |
| ---intern | 4.02 | 215,296 | \$ 90.00 | \$ 19,377 | |
| SULPHUR | 0.99 | 52,870 | \$ 52.26 | \$ 2,763 | |
| Petroleum Sulphur | 0.99 | 52,870 | \$ 52.26 | \$ 2,763 | |
| PETROLEUM SULPHUR | 0.99 | 52,870 | \$ 52.26 | \$ 2,763 | |
| ---export | 0.99 | 52,870 | \$ 52.26 | \$ 2,763 | |
| ---intern | 0.00 | 0 | \$ - | \$ - | |
| TOTAL UNFINISHED PRODUCTS: | 0.00 | 0 | \$ - | \$ - | |
| TOTAL LOSS | 2.58 | 138,140 | | \$ - | |
| LOSS | 2.58 | 138,140 | | \$ - | |
| Loss | 2.58 | 138,140 | | \$ - | |
| Coke/Catalyst | 1.15 | 61,592 | \$ - | \$ - | |
| Hydrogen purge gas | 0.52 | 27,651 | \$ - | \$ - | |
| Technological Loss | 0.91 | 48,897 | \$ - | \$ - | |
| GROSS REFINERY P/L | | | | \$ 297,831 | |
| GROSS REFINERY MARGIN | | | | \$ 55.68 | |
| GROSS REFINERY P/L, excluding fuel gas | | | | \$ 242,391 | |
| GROSS REFINERY MARGIN | | | | \$ 45.31 | |

| | | | | |
|------------------------------------|------------------------------------|-------------|--------------|----------------|
| REFINERY Production Budget_2016 | Brent Dtd \$ 40.10 7 567 \$ 303.44 | | | |
| | bbl CF mt | | | |
| | Ural \$ 39.10 7 310 \$ 285.82 | | | |
| | Crude Unit | | 13,546 | to/day |
| | Total | | | |
| No. of Days: | | 356 | | |
| REFINERY | Yield % | Quantity mt | Price USD/mt | Value (,000\$) |
| Gasoline & Diesel | | 3,756,339 | | |
| Export | | 2,165,599 | | |
| Intern | | 1,590,740 | | |
| Gasoline intern | | 269,484 | | |
| Diesel intern | | 1,321,256 | | |

white products, %

85.80

Chairman of the Board of Directors
Azamat Zhangulov

MEMBERS OF THE BOARD OF DIRECTORS:

Alexandru Nicolciolu

Yedil Utekov

Nicolae Bogdan Codruț Stănescu

Mihai-Liviu Mihalache

CHIEF FINANCIAL OFFICER
Giani Iulian Vaci

PPO BU REFINING DIRECTOR
Raluca Lainer

Operational Director
Abzal Doszhanov

REFINERY MANAGER
Nicolae Nitu

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Production Plan 2016

Vega Refinery

Vega Refinery

The main assumptions for production plan and sales plan 2016

1. Feedstock

Vega refinery will process raw material from Petromidia Refinery. The total feedstock for 2016 will be **311,671** tonnes in the following structure:

- C5-C6 cut – 41,793 tonnes
- raffinate – 167,735 tonnes
- hydrotreated kerosene – 10,200 tonnes
- slurry – 2,571 tonnes
- fuel oil – 89,306 tonnes
- polymer for bitumen – 52 tonnes
- dyeguard blue – 14 tonnes

2. Structure of products

| FINITE PRODUCTS | domestic mt/year | export mt/year | TOTAL mt/year |
|---------------------|---------------------|-------------------|------------------|
| Ecological solvents | 300 | 40,488 | 40,788 |
| n-Hexane | 2,606 | 76,044 | 78,651 |
| Naphtha gasoline | - | 86,487 | 86,487 |
| White spirit | 7,486 | 1,500 | 8,986 |
| Heating oils | 8,149 | - | 8,149 |
| Fuel oil | 14,964 | 8,300 | 23,264 |
| Bitumen | 60,411 | - | 60,411 |
| TOTAL | 93,916 | 212,819 | 306,735 |

Vega refinery is the only east European producer of N-hexane, used in polypropylene production and extraction of vegetable oils in food industry.



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Vega refinery is also the only romanian producer of Ecological Solvents – Rompetrol SE, products with lower sulphur and aromatics content and lower toxicity level.

Total volume of petroleum products estimated to be delivered in 2016 is 306,735 tonnes, out of which:

- 31% domestic market;
- 69% export market.

On the export market the products are sold in India, Turkey, Ukraine, Moldova, Serbia, Hungary, Kazakhstan, Uzbekistan, Germany, Bulgaria, Poland, Austria and Italy.

3. Products Specifications

The finished products for Vega Refinery are produced according to Quality Specific Standards that are in use at the moment and comply with the internal and international standards for these products.

The table below shows a summary of 2016 VEGA-production plan:

| VGA 2016 | tonnes |
|------------------------|----------------|
| Raw materials | 311,671 |
| Crude oil | - |
| Other feedstock | 311,671 |
| Finite products | 306,735 |
| Ecological solvents | 40,788 |
| n-Hexane | 78,651 |
| Naphtha gasoline | 86,487 |
| White spirit | 8,986 |
| Gasoil | 3,890 |
| Light liquid fuel | 4,259 |
| Fuel oil | 23,264 |
| Bitumen | 60,411 |
| Consumption | 4,936 |



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4. Operational results

- Gross Refinery P/L: 30,276 k\$
- Gross Refinery Margin P/L: 97.14 \$/mt

Operational Director

Abzal Doszhanov

Refinery Manager

Nicolae Nitu

PPO BU Refining Director

Raluca Lainer

| VEGA REFINERY Plan January-December 2016 | | feedstock 852 to/day | | | |
|--|-------------|----------------------|--------------|--------------|-----------------|
| | | TOTAL 2016 | | | |
| | No. of days | 366 | | Total 16 | |
| | | Efficiency % | Qty (000 mt) | Price USD/mt | Value (000 USD) |
| RAW MATERIALS: | | | | | |
| CRUDE OIL | | 100.00 | 311.671 | 261.67 | \$ 81,553.844 |
| OTHER RAW MATERIALS : | | 0.00 | 0.000 | | 0.00 |
| Gasoline | | 100.00 | 311.671 | 261.67 | \$ 81,553.84 |
| CS-CS Cut | | 67.23 | 209.528 | 306.97 | \$ 64,319.641 |
| Raffinate type IV | | 13.41 | 41.793 | 302.91 | \$ 12,659.568 |
| Petroleum | | 53.82 | 167.735 | 307.99 | \$ 51,660.094 |
| JET MIDIA | | 3.27 | 10.200 | 443.28 | \$ 4,521.409 |
| Gas oil | | 3.27 | 10.200 | 443.28 | \$ 4,521.409 |
| Slurry | | 0.82 | 2.571 | 159.02 | \$ 408.851 |
| Fuel Oil | | 0.82 | 2.571 | 159.02 | \$ 408.851 |
| Dye-guard Blue | | 28.66 | 89.320 | 136.27 | \$ 12,171.540 |
| Fuel Oil - Midia | | 0.00 | 0.014 | 7,654.50 | \$ 105.395 |
| Polymer SBS | | 28.65 | 89.306 | 135.11 | \$ 12,066.145 |
| | | 0.02 | 0.052 | 2,545.83 | \$ 132.383 |
| FINITE PRODUCTS : | | 98.42 | 306.735 | 364.58 | 112,830.014 |
| GASOLINE : | | 64.07 | 205.925 | 405.89 | \$ 83,583.11 |
| Rompelrol SE | | 13.09 | 40.788 | 405.41 | \$ 16,535.81 |
| Rompelrol SE 30/80 | | 12.32 | 38.388 | 397.91 | \$ 15,275.11 |
| export | | 12.32 | 38.388 | 397.91 | \$ 15,275.11 |
| Rompelrol SE 65/80 | | 0.38 | 1.200 | 537.90 | \$ 645.23 |
| export | | 0.29 | 0.900 | 512.89 | \$ 461.36 |
| Intern | | 0.10 | 0.300 | 612.89 | \$ 183.87 |
| Rompelrol SE 75/115 | | 0.39 | 1.200 | 512.89 | \$ 615.47 |
| export | | 0.39 | 1.200 | 512.89 | \$ 615.47 |
| Naphtha gasoline | | 27.75 | 86.487 | 342.96 | \$ 29,661.49 |
| Light Naphtha type II - export | | 27.75 | 86.487 | 342.96 | \$ 29,661.49 |
| n-Heptan | | 25.24 | 78.651 | 475.34 | \$ 37,385.82 |
| export | | 24.40 | 76.044 | 473.03 | \$ 35,971.39 |
| Intern | | 0.18 | 0.575 | 613.05 | \$ 352.50 |
| Petrochemicals | | 0.65 | 2.031 | 522.76 | \$ 1,061.93 |
| WHITE SPIRIT | | 2.78 | 8.653 | 618.28 | \$ 5,349.73 |
| Refined white spirit | | 2.78 | 8.653 | 618.28 | \$ 5,349.73 |
| export | | 0.48 | 1.500 | 618.07 | \$ 927.11 |
| Intern | | 2.29 | 7.153 | 618.32 | \$ 4,422.62 |
| PETROLEUM | | 0.11 | 0.333 | 519.94 | \$ 173.10 |
| Liquid fuel for non-industrial use type P-Intern | | 0.11 | 0.333 | 519.94 | \$ 173.10 |
| MAZOL | | 1.25 | 3.890 | 462.04 | \$ 1,797.32 |
| Rompelrol Calor Extra 1 | | 1.25 | 3.890 | 462.04 | \$ 1,797.32 |
| Intern | | 1.25 | 3.890 | 462.04 | \$ 1,797.32 |
| LIGHT LIQUID FUEL | | 1.37 | 4.239 | 408.18 | \$ 1,738.48 |
| Light liquid fuel type 3 | | 0.19 | 0.599 | 497.26 | \$ 297.91 |
| Intern | | 0.19 | 0.599 | 497.26 | \$ 297.91 |
| Rompelrol Calor Economic 3 | | 1.17 | 3.660 | 393.60 | \$ 1,440.58 |
| FUEL OIL | | 7.46 | 23.264 | 228.68 | \$ 5,320.01 |
| Fuel Oil | | 7.46 | 23.264 | 228.68 | \$ 5,320.01 |
| Fuel Oil 40-45 | | 4.80 | 14.964 | 238.91 | \$ 3,575.13 |
| Fuel Oil 40-45 - export | | 2.66 | 8.300 | 210.23 | \$ 1,744.88 |
| BITUMEN | | 19.34 | 60.413 | 229.57 | \$ 13,848.26 |
| Road Bitumen | | 19.34 | 60.413 | 228.22 | \$ 13,439.81 |
| Bitumen type D 50/70 | | 16.30 | 50.811 | 226.29 | \$ 11,497.92 |
| Bitumen type D 70/100 | | 1.70 | 5.300 | 226.22 | \$ 1,198.99 |
| Bitumen type D 160/220 | | 1.06 | 3.300 | 225.12 | \$ 742.91 |
| Modified Bitumen | | 0.32 | 1.000 | 428.45 | \$ 428.45 |
| Road bitumen type EUROBITUM | | 0.32 | 1.000 | 428.45 | \$ 428.45 |
| UNFINISHED PRODUCTS | | 0.00 | 0.000 | | 0.00 |
| TOTAL CONSUMPTION : | | 1.58 | 4.936 | | 0.00 |
| CONSUMPTION | | 1.58 | 4.936 | | 0.00 |
| Consumption | | 1.58 | 4.936 | | 0.00 |
| Technological consumption | | 1.58 | 4.936 | | 0.00 |
| GROSS REFINERY P/L | | | | | 30,276 |
| GROSS REFINERY MARGIN | | | | | 97.14 |

Chairman of the Board of Directors

Azamat Zhangulov

MEMBERS OF THE BOARD OF DIRECTORS

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Yedil Utekov

Nicolae Bogdan Codrut Stancu

Mihai-Liviu Mihalache

CHIEF FINANCIAL OFFICER
Giani Iulian Kadic

PPO BU REFINING DIRECTOR
Raluca Lainer

OPERATIONAL DIRECTOR
Abzal Doszhanov

REFINERY MANAGER
Nicolae Nitu



rompetrol

KazMunayGas
Group
Member

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2016 Plan for Production activity Rompetrol Refinery

PETROCHEMICALS AREA

The main assumptions for production plan and sales plan 2016

Production Plan for PETROCHEMICALS AREA – 2016

POLYMERS PRODUCTION: 161,210 mt, out of which:

- PP : 89,180 mt,
- LDPE : 72,030 mt,

Feedstock

Raw materials planned to be processed in 2016 (mt/year):

- Propane-propylene mixture : 121,112 mt from FCC
- Ethylene : 74,005 mt

1. Commercial Assumptions

2.1 Prices

2.1.1 Raw materials prices:

- Propane-propylene mixture 669 \$/mt;
- Ethylene 1077 \$/mt

2.1.2 Products

- PP 1193 \$/mt (crack 524 \$/mt)
- LDPE 1392 \$/mt (crack 316 \$/mt)

2.1.3 2015 Utilities costs are estimated to be 111.26 \$/mt, meaning 17.936 mil \$.



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2.2 Sales (mt/year)

| Sales | 161,210 | Domestic | | Export | |
|-------|---------|----------|-------|--------|-------|
| PP | 89,180 | 34,500 | 38.7% | 54,680 | 61.3% |
| LDPE | 72,030 | 24,420 | 33.9% | 47,610 | 66.1% |

The table below shows a summary of 2016 PETROCHEMICAL AREA-production plan:

tone/year

| | |
|----------------------------|----------------|
| Total Feedstock | 195,117 |
| Propane-propylene mixture | 121,112 |
| Ethylene | 74,005 |
| Polymers production | 161,210 |
| PP | 89,180 |
| LDPE | 72,030 |

Operational Director

Abzal Doszhanov

Petrochemical Area Manager

Traian Stanica

PPO BU Refining Director

Raluca Lainer

PETROMICALS AREA

Production Budget_2016 tone/year

| | |
|----------------------------|----------------|
| Total Feedstock | 195,117 |
| Propane-propylene mixture | 121,112 |
| Ethylene | 74,005 |
| Polymers production | 161,210 |
| PP | 89,180 |
| LDPE | 72,030 |

| | tone/year | | | | |
|--------------|----------------|-----------------|-------|---------------|-------|
| Sales | 161,210 | Domestic | | Export | |
| PP | 89,180 | 34,500 | 38.7% | 54,680 | 61.3% |
| LDPE | 72,030 | 24,420 | 33.9% | 47,610 | 66.1% |

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FINANCIAL OFFICER
Giani Iulian Kacic

PPO BU REFINING DIRECTOR
Raluca Lainer

OPERATIONAL DIRECTOR
Abzal Doszhanov

PETROCHEMICAL AREA MANAGER
Traian Stapica