

Investment program 2013

2013 Investment program is structured in 3 sections, based on objectives and projects magnitude.

Total investments value allocated for **2013** is **59.950.605 USD**, according below table:

	Budget 2013
Petromidia, from which:	55.759.402 USD
Business development	645.235 USD
Compliance	33.153.484 USD
Operational Support	21.960.682 USD
Vega, from which:	4.191.203 USD
Operational Support	1.278.187 USD
Compliance	2.913.016 USD
Total investments Rompetrol Refining	59.950.605 USD

Compliance

This category includes compulsory investments required by environmental and safety regulations:

- **New Coke Blow-down system.** Delayed Coker Unit open blow-down will be upgraded to closed blow-down system, which will reduce the hydrocarbon emissions and the refinery losses. Finalization of project is conditioned by refinery technological turn around, scheduled for 2013 March-April period.
- **Decreasing NO_x emissions from the refinery heaters.** The project consists in replacing existing burners from technological units with new ones, which will generate low NO_x emissions, according legislation in force. Implementation of project is conditioned by refinery technological turn around, scheduled for 2013 March-April period.
- **Install a system to reduce particles from FCC unit emissions to stack.** The project consists in mounting a system (ESP: Electro-Static Precipitator) for catalyst particles reduction from flue gases on stack in Fluid Catalytic Cracking Unit. Finalization of project is estimated for end of 2013.

- Also, in compliance projects category, a very important project is **ISCIR reauthorization for pipes and static equipments**, this project being a part of a bigger program, started by Rompetrol in 2010 and scheduled for several years.

Operational Support

This category includes projects for static and dynamic equipment revamp and modernization, in order to keep in good condition for safe operation of the Refineries units.

From this category, a very important place is held by projects from „Storage and logistics“ area, which, consecutive to processing capacity of the refinery increasing to 5mil.tones/year after „2010 Package“ implementation, will solve refinery problems regarding storage possibilities, blending and deliveries of the products in order to get a maximum efficiency by a rational use of all components.

Projects from this category:

- New 30.000m³ diesel tank and facilities
- Diesel delivery optimization for three direction simultaneously
- Rehabilitation of IPPA facilities
- Jet A1 loading rate increasing to road trucks
- Increasing diesel loading capacity on RTCs

Also, from operational support category, a very important place is held by **2013 Refinery Turn Around** project, technological shut down for equipments periodic inspections, catalysts replacement, maintenance, etc.

P&E Deputy Director
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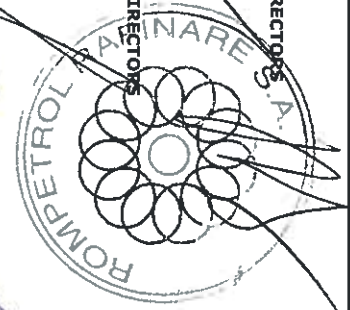
CAPEX PLAN 2013 ROMPETROL RAFINARE

Nr. crt.	Project Name	Total Project estimated Budget	Approved Budget for 2013, USD
	Refining	\$ 194,429,979	\$ 59,950,605
	Petromidia	\$ 186,379,717	\$ 55,759,402
	Petromidia Development	\$ 50,468,198	\$ 645,235
1	New Claus Unit (continuing from 2008)	\$ 49,794,319	\$ 519,735
2	Facilities for liquid sulphur delivery	\$ 673,879	\$ 125,500
	Petromidia Operational - Operational support	\$ 135,493,519	\$ 54,784,131
	Petromidia Operational - Operational support	\$ 31,531,976	\$ 3,408,098
3	PEID s for Petromidia Refinery Units up-date AS BUILT (continuing from 2011)	\$ 36,000	\$ 104,528
4	Wash water pump replacing In CDU (100P24A,R) (continuing from 2011)	\$ 133,875	\$ 106,690
5	Replacing diesel pump 100P5 (continuing from 2011)	\$ 253,559	\$ 228,923
6	In Line Blending Upgrade (continuing from 2011)	\$ 1,166,000	\$ 115,039
7	Gasoline flow rate increasing to ships (continuing from 2012)	\$ 1,190,409	\$ 979,280
8	Measurement system (for all utilities in order to reduce the utilities imbalance) (continuing from 2012)	\$ 92,950	\$ 9,076
9	Detail Design Engineering for 10,000 m³ mbe tank and facilities (continuing from 2012)	\$ 96,800	\$ 9,525
10	Jet A1 Loading Rate increasing to road trucks	\$ 486,640	\$ 105,000
11	Rehabilitation of IPPA facility	\$ 2,740,628	\$ 195,000
12	Diesel delivery optimization for three direction simultaneously	\$ 937,350	\$ 526,000
13	Install 2 (two) svs condensate pumps to route the condensate from 313V-V3 to SWS feed line 313V-C1	\$ 296,980	\$ 16,500
14	Increasing diesel loading capacity on RTCs	\$ 4,291,000	\$ 334,000
15	New 30,000 m³ diesel storage and pumping facility	\$ 15,381,250	\$ 300,000
16	V28 tank connecting to export delivery paths	\$ 640,000	\$ 50,000
17	Intruders detection and safety protection for tanks CCTV systems	\$ 76,535	\$ 76,535
18	Modernization of in line blending unit	\$ 3,410,000	\$ 250,000
	Petromidia Operational - Compliance	\$ 80,579,941	\$ 33,153,484
19	Delayed coker unit Upgrade (continuing from 2010)	\$ 41,308,043	\$ 4,452,677
20	Delayed Coker unit rehabilitation for CBS Integration	\$ 5,751,610	\$ 5,229,409
21	Fuel oil loading segregation at railcar ramp (continuing from 2012)	\$ 374,850	\$ 242,452
22	Install a system to reduce particulates emissions to the stack in FCC unit (continuing from 2012)	\$ 9,317,000	\$ 9,841,234
23	Execute a nozzle for level indicator on 1386V1 and installing of a new pump for 1386P16, GASCOM unit (continuing from 2012)	\$ 99,000	\$ 93,751
24	Low NOx emissions for refinery heaters (100H1 100H2 100H3 180H1 121H1 122 H1) (continuing from 2011)	\$ 5,060,283	\$ 2,142,693
25	Implement pump flow trips at LPG pumps (continuing from 2012)	\$ 58,850	\$ 5,724
26	Programs of examinations, NDT and investigations (E.C.I.) for pressure equipments and pipelines (continuing from 2011)	\$ 5,479,643	\$ 7,751
27	Fiscal marker injection facility in Fuel Oil	\$ 608,520	\$ 53,000
28	Fire-fighting Water Main Replacement, section A-P, section 125-128	\$ 462,000	\$ 420,000
29	Piezometer wells (3 units) in area dr.22 F315-P12	\$ 58,300	\$ 53,000
30	Fiscal measurement utilities for third parties	\$ 141,350	\$ 25,200
31	Expire authorization ISCR for static equipment's	\$ 11,493,542	\$ 10,532,593
32	Directing piggable discharge valves in V1, V2 vessels	\$ 56,950	\$ 31,000
33	LPG Fiscal Measurement to Rompetrol Gas	\$ 310,000	\$ 30,000
	Petromidia Operational - Capital maintenance	\$ 23,381,602	\$ 18,222,539
34	180 M16-Storage tank rehabilitation (continuing from 2011)	\$ 776,600	\$ 663,462
35	M93-Tank rehabilitation (continuing from 2011)	\$ 694,650	\$ 9,086
36	Petromidia Refinery critical spare parts for centrifugal compressors (continuing from 2011)	\$ 5,620,000	\$ 2,592,768
37	Supply / repair Andritz centrifuge screw (continuing from 2012)	\$ 134,600	\$ 109,416
38	Homogenizers for waste water treatment unit 103/9	\$ 35,200	\$ 17,203
39	Condensate injection tank 120 V10 replacement, HB plant (continuing from 2012)	\$ 990,000	\$ 450,000
40	Capital maintenance at railway Line no 15	\$ 1,199,033	\$ 1,090,030
41	Replace the waste water pipe lines metallic supports (RR - WWTP estacades)	\$ 55,000	\$ 50,000
42	Revolving static equipment refinery- plant unit RGF-tube bundle 802/III s1	\$ 446,070	\$ 50,600
43	Replace bundle 180 S1A	\$ 366,300	\$ 88,800
44	Replacement tubes bundles heat exchangers 130 S3B and 130 S6, RC plant	\$ 369,689	\$ 12,491,535
45	Refinery 2013 Shut Down	\$ 11,780,889	\$ 36,000
46	Replacement tubes bundles heat exchanger 125 S4D	\$ 127,600	\$ 3,000
47	Rehabilitation static equipment for refinery- section II	\$ 47,960	\$ 43,600
48	Tank Ditches repairs study	\$ 9,900	\$ 9,000
49	Replacement of the old railway weighbridge-railway line no 4 (Zone CPU)	\$ 165,000	\$ 9,789
50	General overhaul for power transformers - 3 pieces (SRA 2 - Trafo 2 si SRA 4 - Trafo 1 si 2)	\$ 401,500	\$ 365,000
51	Precision measurements by surveying in plants MHC, FH2, NEW SRU, NEW FLARES.	\$ 16,500	\$ 11,250
	Petromidia Non-Operational	\$ 418,000	\$ 330,045
	Petromidia Non-Operational - IT	\$ 418,000	\$ 330,045
53	Petromidia datacenter Infrastructure upgrade (continuing from 2011)	\$ 86,200	\$ 85,245
54	Upgrade Orion	\$ 85,000	\$ 85,000
55	Upgrade Aspen Utilities	\$ 20,000	\$ 20,000
56	OSisoft Plant Information solution upgrade	\$ 200,000	\$ 200,000
57	PI system extending	\$ 24,800	\$ 24,800
	VEGA	\$ 8,050,262	\$ 4,191,203
	VEGA Operational - Operational support	\$ 376,081	\$ 235,182
58	Delivery optimization for SE solvents	\$ 74,697	\$ 68,257
59	Rehabilitation of existing electrical heating system and expanding this system	\$ 106,810	\$ 97,100
60	Assembly frequency converters on P6R pumps and PZR	\$ 50,699	\$ 46,090
61	Made electric lighting plant in North Park Tank	\$ 143,875	\$ 23,735
	VEGA Operational - Compliance	\$ 5,269,442	\$ 2,913,016
62	New vacuum distillation column (continuing from 2011)	\$ 1,740,000	\$ 520,584
63	A54 Storage tank revamp (continuing from 2012)	\$ 373,302	\$ 67,486
64	Revamp 30/60 storage tank A70	\$ 286,110	\$ 260,900
65	Mount floating membranes on tanks	\$ 439,450	\$ 245,000
66	Rehabilitate Ag4v tank	\$ 63,250	\$ 10,200
67	VEGA Vapor recovery system at railway loading point	\$ 1,315,000	\$ 860,825
68	AF ISCR metal pipes according to PT C6/2010	\$ 280,000	\$ 254,981
69	PEVTI for technical equipments	\$ 458,030	\$ 417,300
70	Firefighting and fire prevention system	\$ 144,100	\$ 120,700
71	Upgrading B170 tank	\$ 135,000	\$ 123,040
72	Equip the CF Ramp with a towing system similar to that of PEM	\$ 35,200	\$ 32,000
	VEGA Operational - Capital maintenance	\$ 2,404,739	\$ 1,043,005
73	Capital Repair Work Line 10 from the point of Vega Trans Ploiesti, works of railway lines and road signalling installation with semi-barriers type BAT road level crossings with the CPU (continuing from 2012)	\$ 343,040	\$ 211,685
74	Re-survey and fixing pipe racks (continuing from 2012)	\$ 980,770	\$ 1,330
75	Hexan, Rectificare, Bitum, DV, Dezaromatizare Unit turnarounds equipments	\$ 680,669	\$ 618,790
76	C3 Condenser tube bundle repair	\$ 30,800	\$ 28,000
77	S2 heat exchanger repair	\$ 19,800	\$ 18,000
78	P6/1 and P6/2 pumps replacement	\$ 18,480	\$ 16,800
79	Rehabilitation technological sewerage	\$ 58,960	\$ 53,600
80	Rehabilitating PETROCOUNT fiscal system	\$ 55,220	\$ 44,800
81	Revamp of cells as S1, S2 and The separator 20kV at power station PA	\$ 217,000	\$ 50,000

Acknowledged by:

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