Table I.1. Ghana: Quantitative Performance Criteria and Benchmarks, PRGF Arrangement, 2004 1/ (Cumulative flows from beginning of calendar year 2004 to end of month indicated, unless otherwise indicated)

	End-March Benchmark Rev. Prog. 2/	End-June Benchmark Rev. Prog. 2/	End-September Benchmark Rev. Prog. 2/	End-December <u>Perf. Criterion</u> Rev. Prog. 2/				
		(In billions of cedis)						
Performance criteria Net domestic financing of government (ceiling) 3/	629	522	-994	-1.101				
Net domestic assets of the Bank of Ghana (ceiling) 4/5/	-644	1,511	793	548				
Stock of net domestic banking sector credit to TOR (ceiling)	1,389	-48	-192	521				
	(In millions of U.S. dollars)							
Net international reserves of the Bank of Ghana (floor) 6/	-110	-262	-197	100				
The contracting or guaranteeing of new nonconcessional external debt with original maturity greater than or equal to 1 year by the government or the Bank of Ghana (ceiling) 87	0	0	0	0				
Outstanding stock of external debt with original maturity of less than one year								
owed or guaranteed by the government or the Bank of Ghana 8/	23	75	75	75				
Stock of external payment arrears 9/	0	0	0	0				
		(In billion	ns of cedis)					
Indicative benchmarks								
Government domestic primary surplus (floor)	-626	158	578	1,253				
Reserve money stock Government revenue, excluding grants and divestiture proceeds (floor)	6,180 3,686	6,964 7.911	6,836 12,688	9,270 18,187				
Stock of government road sector arrears	22	11	12,000	0,167				
Poverty related expenditures (floor)	1,049	2,534	4,414	5,466				
	(In millions of U.S. dollars, unless otherwise specified)							
Memorandum items:								
External program support (loans and grants)	41	57	227	255				
Paid public and publicly guaranteed debt service (after debt relief) 10/	33	70	88	122				
Divestiture receipts	9	19	31	45				
o/w: in foreign exchange	0	0	8	15				
Average petroleum spot price (APSP in \$/barrel) 11/	31.5	31.0	30.5	30.0				
Petroleum subsidy (in billions of cedis)	192	313	320	300				

- 1/ Definitions of line items and terminology are elaborated in the technical memorandum of understanding (TMU).
- 2/ Before application of adjusters, as indicated in the TMU.
- 3/ Value at end of month indicated. Program targets adjusted for cumulative differences between actual and projected amounts of program support, public and publicly guaranteed debt service paid, and divestiture receipts with an upside cap of \$75 million, as explained in the TMU.
- 4/ Based on a fixed exchange rate of 9,012 cedis/\$, the rate prevailing at end-March 2004.
- 5/ Value at end of month indicated. Program targets adjusted for cumulative differences between actual and projected amounts of program support, public and publicly guaranteed debt service paid, and divestiture receipts with an upside cap of \$75 million, and for higher-than-programmed oil prices, with an upside cap of \$30 million, as explained in the TMU.
- 6/ Program targets adjusted for cumulative differences between actual and projected amounts of program support, public and publicly guaranteed debt service paid, and of Program targets adjusted for cumulative differences between actual and projected amounts of projects and put of the program tapport, public and publicly guaranteed debt service paid, and divestiture receipts with a downside cap of -\$75 million, and for higher-than-programmed oil prices, with a downside cap of -\$30 million, as explained in the TMU.

 7/ This performance criterion applies not only to debt as defined in point No. 9 of the Guidelines on Performance Criteria with Respect to Foreign Debt adopted by Decision 12274-(00/123) of August 24, 2000 but also to commitments or contracted for which value has not been received, as specified in paragraph 15 of the TMU.
- 8/ The term "debt" has the meaning set forth in point No. 9 of the Guidelines on Performance Criteria with Respect to Foreign Debt adopted by Decision 12274-(00/123) of August 24, 2000, as specified in paragraph 14 of the TMU.

 9/ This is a continuous criterion. The TMU stipulates the precise program definition of payment arrears.

- 10/ Debt service to be paid by Ghana after projected 2004 HIPC relief.
 11/ Average from beginning of 2004 to end of month indicated, as explained in the TMU.

Table I.4. Ghana: Petroleum Products Pricing Formula, January 2004 1/

Variable Name	Description	Source	Premium	Kerosene	Gasoil	Premix	RFO	LPG	Total
Product Price	f.o.b. Mediterranean price, averaged for the previous three Platt calendar months. The respective prices used are: from Platt's and Oilgram: Premium 0.15 G/L, Jet Av. Fuel, Gasoil 0.2, 1% Fuel Oil, and from Bloomberg: LPG Butane fob Mid-price.		286.93	282.60	259.41		155.34	312.69	
Suppliers commission (\$ per metric ton)	Outcome of a tendering process for the various products.	NPTB from TOR	12.87	33	11.45		15.84	69.05	
Insurance (\$ per metric ton)	Suppliers' insurance cost	NPTB from TOR	0.36	0.32	0.30		0.20	0.34	
CIF (\$ per metric ton)	Total cost of insurance & freight	Sum of 1+2+3	300.16	315.92	271.16		171.38	382.08	
Related charges (% of CIF)	Pegged at 13.85% and include off loading, in transit losses, inspection, L/C costs, purchasers commission, demurrage, financial costs, storage, in-plant losses, rack loading cost, operation margin.	NPTB from TOR	13.85	13.85	13.85		13.85	13.85	
Related charges (\$ per metric ton)	operation margin.	Product of 4 x 5	41.57	43.75	37.56		23.74	52.92	
Total cost (\$ per metric ton)		Sum of 6 + 4	341.73	359.67	308.71		195.12	434.99	
	Constant	NPTB	1,379.70	1,238.10	1,187.60		1,110.30	1,000.00	
Ex-refinery full-cost price (\$ per liter)	Communic	Product of 7 x 8	0.2477	0.2905	0.2599		0.1757	0.4350	
Cedis per US dollar exchange rate	Average of the exchange rates on the 26th day (or the last work Bank	of Ghana/Bloomberg	8,808.08	8,808.08	8,808.08		8,808.08	8,808.08	
,	day before the 26th day) of the previous three calendar months. Fin.	Svcs.							
Ex-refinery full-cost recovery price (cedis p	er liter)	Product of 9 x 10	2,181.60	2,558.78	2,289.63	2,185.20 2	1,547.90	3,831.46	
Ex-refinery current price (cedis per liter)		Previously Gazetted	2,251.69	2,116.43	1,768.60	2,148.33	912.56	1,800.00	
15% ad-valorem excise tax		Legislated	337.75	317.46	265.29	322.25	136.88	270.00	
Specific charge		Legislated	200.00	100.00	200.00	0.00	200.00	100.00	
Road fund		Legislated	400.00	0.00	400.00	0.00	0.00	0.00	
Energy fund		Legislated	5.00	5.00	5.00	0.00	5.00	0.00	
Exploration Stock fund		Legislated Legislated	3.00 30.00	3.00 30.00	3.00 30.00	0.00	3.00 30.00	0.00	
Debt recovery levy (up to amount indicated)		Act 642	640.00	640.00	640.00	640.00	640.00	640.00	
Boost margin		Set Jan. 2003	88.00	88.00	88.00	0.00	0.00	0.00	
Prim. Distr. margin		Set Jan. 2003	44.00	44.00	44.00	0.00	0.00	0.00	
Ex-depot prices (cedis per liter)	Sum of 13+14+15+	16+17+18+19+20+21+22	3,999.44	3,343.89	3,443.89	3,110.58	1,927.44	2,810.00	
UPPF margin		Set Jan. 2003	130.00	230.00	130.00	130.00	0.00	0.00	
Dealers margin		Set Jan. 2003	110.00	110.00	110.00	110.00	0.00	0.00	
Marketers margin		Set Jan. 2003	205.00	205.00	205.00	205.00	0.00	990.00	
Ex-pump current maximum price (cedis per	r liter)	Sum of 23+24+25+25	4,444.44	3,888.89	3,888.89	3,555.58	1,927.44	3,800.00	
Trigger mechanism:									
Volume sales in previous month (in liters)		NPTB from TOR	49,617,550	7,214,850	79,770,125	3,901,500	3,917,850	5,983,574	150,405,449
Previous month's actual refinery sales		Product of 28 x 13							282,420,215,616
Refinery sales at full cost recovery		Product of 28 x 11							338,341,070,447
Percent difference (relative subsidy)		Sum of 30/29							-19.8
Triggered if actual and full cost recovery to	otal sales differ by more than 2.5 percent								

Calculations based on October I-December 31 Platt prices, existing ex-refinery prices, and December 2003 volumes.
 Premix price computed as a weighted average of full cost recovery prices for premium gasoline (96.67 percent) and gasoil (3.33 percent), the latter as a proxy for engine oil when that market price unavailable.

Table I.4. cont. Ghana: Petroleum Products Pricing Formula, April 2004 1/

Variable Name	Description	Source	Premium	Kerosene	Gasoil	Premix	RFO	LPG	Total
Product Price	f.o.b. Mediterranean price, averaged for the previous three Platt	s Oilgram Price Report	333.47	297.43	266.46		150.19	316.10	
	calendar months. The respective prices used are: from Platt's and I	Platt's LPGaswire							
	Oilgram: Premium 0.15 G/L, Jet Av. Fuel, Gasoil 0.2, 1% Fuel								
	Oil, and from Bloomberg: LPG Butane fob Mid-price.								
Suppliers commission (\$ per metric ton)	Outcome of a tendering process for the various products.	NPTB from TOR	12.87	33	11.45		15.84	69.05	
Insurance (\$ per metric ton)	Suppliers' insurance cost	NPTB from TOR	0.36	0.32	0.30		0.20	0.34	
CIF (\$ per metric ton)	Total cost of insurance & freight	Sum of 1+2+3	346.70	330.75	278.21		166.23	385.49	
	Pegged at 13.85% and include off loading, in transit losses,	NPTB from TOR	13.85	13.85	13.85		13.85	13.85	
	inspection, L/C costs, purchasers commission, demurrage,								
	financial costs, storage, in-plant losses, rack loading cost, operation margin.								
Related charges (\$ per metric ton)		Product of 4 x 5	48.02	45.81	38.53		23.02	53.39	
Γotal cost (\$ per metric ton)		Sum of $6 + 4$	394.71	376.56	316.74		189.26	438.88	
	Constant	NPTB	1,379.70	1,238.10	1,187.60		1,110.30	1,000.00	
Ex-refinery full-cost price (\$ per liter)		Product of 7 x 8	0.2861	0.3041	0.2667		0.1705	0.4389	
		of Ghana/Bloomberg	8,991.49	8,991.49	8,991.49		8,991.49	8,991.49	
	day before the 26th day) of the previous three calendar months. Fin.	Svcs.							
Ex-refinery full-cost recovery price (cedis p	er liter)	Product of 9 x 10	2,572.34	2,734.70	2,398.10	2,566.53	2/ 1,532.66	3,946.14	
Ex-refinery current price (cedis per liter)		Previously Gazetted	2,251.69	2,116.43	1,768.60	2,148.33	912.56	1,800.00	
15% ad-valorem excise tax		Legislated	337.75	317.46	265.29	322.25	136.88	270.00	
Specific charge		Legislated	200.00	100.00	200.00	0.00	200.00	100.00	
Road fund		Legislated	400.00	0.00	400.00	0.00	0.00	0.00	
Energy fund		Legislated	5.00	5.00	5.00	0.00	5.00	0.00	
Exploration		Legislated	3.00	3.00	3.00	0.00	3.00	0.00	
Stock fund		Legislated	30.00	30.00	30.00	0.00	30.00	0.00	
Debt recovery levy (up to amount indicated)		Act 642 Set Jan. 2003	640.00 88.00	640.00 88.00	640.00 88.00	640.00 0.00	640.00 0.00	640.00 0.00	
Boost margin Prim. Distr. margin		Set Jan. 2003 Set Jan. 2003	88.00 44.00	88.00 44.00	88.00 44.00	0.00	0.00	0.00	
Ex-depot prices (cedis per liter)	Sum of 13+14+15+	16+17+18+19+20+21+22	3,999.44	3,343.89	3,443.89	3,110.58	1,927.44	2,810.00	
UPPF margin	Sum of 13+14+13+	Set Jan. 2003	130.00	230.00	130.00	130.00	0.00	0.00	
Dealers margin		Set Jan. 2003	110.00	110.00	110.00	110.00	0.00	0.00	
Marketers margin		Set Jan. 2003	205.00	205.00	205.00	205.00	0.00	990.00	
Ex-pump current maximum price (cedis per	liter)	Sum of 23+24+25+25	4,444.44	3,888.89	3,888.89	3,555.58	1,927.44	3,800.00	
Trigger mechanism:									
Volume sales in previous month (in liters)		NPTB from TOR	60,670,500	5,972,850	79,674,199	2,166,500	3,431,250	4,463,065	156,378,364
Previous month's actual refinery sales		Product of 28 x 13							301,328,803,922
Refinery sales at full cost recovery		Product of 28 x 11							386,336,340,509
Percent difference (relative subsidy)		Sum of 30/29							-28.2

 ^{1/} Calculations based on January 1-March 31 Platt prices, existing ex-refinery prices, and March 2004 volumes.
 2/ Premix price computed as a weighted average of full cost recovery prices for premium gasoline (96.67 percent) and gasoil (3.33 percent), the latter as a proxy for engine oil when that market price unavailable.

Table I.5. Ghana: Automatic Adjustment Formula for Electricity Tariffs

er Variable	Source	Symbol	Oct-2003	Jan-2004 1	Jan-2004 Calc.	Apr-2004 1	Apr-2004 Calc.
6 Base thermal variable energy prices:		Po					
OF 1	G	4.61					
7 Oil fired simple cycle plant (cents/kWh)	Gazetted 26 July 2002						
8 Oil fired simple combined plant (cents/kWh)	Gazetted 26 July 2002	as quoted FP	20.00	32.00	32.00	34.75	34.7
9 Fuel price (for liquid fuels, Bonny Crude Oil)	The average of three months futures prices,		30.00	32.00	32.00	34.73	34.
	on the NYMEX on the last working day of the plus US\$0.15.						
10 Base fuel price US\$/bbl	Gazetted 26 July 2002	FPo	22	22	22	22	
11 CPI of the USA	The change in the US CPI during the latest th period for which data is available as report International Financial Statistics.		1.1%	1.2%	1.2%	1.3%	1.3
12 Base CPI of USA	Gazetted 26 July 2002	CPIo	2.0%	2.0%	2.0%	2.0%	2.0
13 Annual fuel coefficient	Gazetted 26 July 2002	a	0.89	0.89	0.89	0.89	0
14 Annual CPI coefficient	Gazetted 26 July 2002	В	0.11	0.11	0.11	0.11	(
16 Adjusted variable energy price (cents/kWh), simple	cycle plant Sum of 7 x $(13 \times 9/10+14 \times (1+11)/(1+12))$	P2					
			6.10	6.47	6.47	6.98	ϵ
17 Combined cycle plant	Sum of 8 x (13 x 9/10+14 x (1+11)/(1+12))	P3	4.01	4.25	4.25	4.59	4
18 Percentage of hydro contribution to the generation n		X1	50%	50%	60%	50%	6
19 Percentage of simple cycle thermal energy in the total	al generation mix Projection for the next tariff period of three me	onths. X2	16%	20%	20%	15%	1
20 Percentage of combined cycle thermal energy in the	total generation mix Projection for the next tariff period of three me	onths. X3	34%	30%	20%	35%	2
21 Hydro cost (cents/kWh) determined by PURC	Long-run marginal cost of hydro production	on or the Hc					
	average VRA cost for the past 5 years.		1.50	1.50	1.50	1.50	1
22 System capacity price (cents/kWh)	Gazetted 26 July 2002	K	1.67	1.70	1.70	1.70	
23 Effective percentage thermal capacity contribution to	o system demand Percentage of thermal capacity contribution domestic demand as Gazetted 26 July 2002.	n to meet n	56%	50%	50%	50%	:
24 Bulk generation charge adjusted (cents/kWh)	Sum of (16 x 19 + 17 x 20 + 18 x 21) +23 x 22	2 3GCadjust (cents/kWh)	4.05	4.17	3.89	4.25	
25 Bulk generation charge adjusted (cedis/kWh)	Sum of 24 x 32/100	3GCadjust (cents/kWh)	360.02	368.89	344.53	389.35	34
26 Transmission service charge (cents/kWh)	Gazetted 26 July 2002	TSC (Cents/kWh)	0.9	0.9	0.9	0.9	
27 Transmission service charge (cedis/kWh)	Product of 26 x 31/100	TSC (Cedis/kWh)	80.10	79.61	79.61	82.37	8:
28 Bulk supply tariff (cedis/kWh)	Sum of $25 + 27$	BST (Cedis/kWh)	440.1	448.5	424.1	471.7	4
29 Bulk supply tariff (cents/kWh)	Sum of 28/32 x 100	BST (Cents/kWh)	4.95	5.07	4.79	5.15	4
30	Gazetted 26 July 2002	DSC_{t-1}					
Distribution service charge for the previous period (cedis/kWh)		285	298	298	297	
31 Previous period's exchange rate (cedis/US\$)	As used in the previous period's calculation.	$EXCH_{t-1}$	8500	8900	8900	8846	8
32 Exchange rate (cedis/US\$)	The interbank transaction rate quoted by the Ghana for the last day of the second mor preceding quarter, multiplied by the percenta in that rate from the last day of the second me quarter before that.	nth in the ge change	8900	8846	8846	9152	9
33 Distribution service charge for the next period (cedi	(s/kWh) Sum of 30 x 32/31	DSCt (Cedis/kWh)	298.41	296.60	296.60	306.86	300
34 Distribution service charge for the next period (cent		DSCt (Cents/kWh)	3.35	3.35	3.35	3.35	3
35 Average end-user tariff (cedis/kWh)	Sum of 33 +28	EUT _t	738.5	745.1	720.7	778.6	7:
Memo:							;
Average end-user tariff (cents/kWh)	Sum of $29 + 34$	EUT	8.30	8.42	8.15	8.51	

 $^{1. \} Assuming the percentage of the hydro-contribution capped at 50 percent as specified in the TMU (EBS/03/161).$