PUBLIC UTILITIES REGULATORY COMMISSION (PURC)
PUBLICATION OF ELECTRICITY TARIFFS

In accordance with the statutory duty to publish rates approved by the Public UtilitiesRegulatory Commission under Section 19 of the Public Utilities Regulatory Commission Act, 1997 (Act 538), this publication is made this 15th February 2011.

1. The Volta River Authority (VRA) and Sunon Asogli Power (Ghana) Ltd., (Asogli) shall charge the rates provided for in the First Schedule as the Bulk Generation Charge (BGC) and Generation Charge (GC) respectively to take effect from 1st March 2011.

2. The Ghana Grid Company Limited (GRIDCo) shall charge the rates provided in the Second Schedule as the Transmission Service Charge (TSC) to take effect from 1st March, 2011.

3. The Electricity Company of Ghana Limited (ECG) and Northern Electricity Department (NED) of the VRA shall charge the rates provided for in the Third and Fourth Schedules as the Distribution Service Charge (DSC) and End-User Tariffs to take effect from the March, 2011 billing cycle.

4. The rates are denominated in Ghana Pesewas.

5. The projections used in the computation of the rates are provided for in the Fifth Schedule.

6. These approved rates shall remain in force until they are changed by the Public Utilities Regulatory Commission.

7. Until the next major tariff review, electricity and water tariffs shall be adjusted as per the automatic adjustment (indexation) formula provided in the Sixth Schedule.

8. The rates approved by the Public Utilities Regulatory Commission to take effect from 1st June, 2010 for VRA, Schenzhen/Sunon Asogli, GRIDCo, ECG and NED as published in *Gazette* No. 38 of 28th May 2010, the automatic adjustment (indexation) formula and its related projections as published in *Gazette* No. 35 of 26th July, 2002 are hereby accordingly revoked and replaced with the following:

DEFINITIONS

BGC	Bulk Generation Charge
GC	Generation Charge
TSC	Transmission Service Charge
DSC	Distribution Service Charge
SLT-LV	Special Load Tariff—Low Voltage
SLT-MV	Special Load Tariff—Medium Voltage
SLT-HV	Special Load Tariff—High Voltage
kWh	Kilowatt-Hour
kVA	Kilovolt Ampere
AAF	Automatic Adjustment Formula

FIRST SCHEDULE

Tariff Category	Effective 1st March, 2011
BGC VRA - -(GHp/kWh)	7.4362
GC Asogli- (GHp/kWh)	15.3759
Composite BGC- VRA & Asogli (GHp/kWh)	8.8576

SECOND SCHEDULE

Tariff Category	Effective 1st March, 2011
TSC (GHp/kWh)*	2.2615

THIRD SCHEDULE

Tariff Category	Effective March 2011 Billing Cycle
DSC (GHp/kWh)	8.8949

FOURTH SCHEDULE

Tariff Category	Effective March 2011 Billing Cycle
Residential	
0-50 (Exclusive) (GHp/kWh)**	9.50
51-300 (GHp/kWh)	15.95
301 – 600 (GHp/kWh)	20.70
601+ (GHp/kWh)	23.00
Service Charge (GHp/month)	150.00
Non-Residential	
0-300 (GHp/kWh)	22.93
301 – 600 (GHp/kWh)	24.40
601+ (GHp/kWh)	38.50
Service Charge (GHp/month)	250.00
Tariff Category	**Effective March 2011 Billing Cycle**
SLT-LV	
Max. Demand (GHp/kVA/month)	1400.00
Energy Charge (GHp / kWh)	23.90
Service Charge (GHp / month)	1000.00
SLT-MV	
Max. Demand (GHp/kVA/month)	1200.00
Energy Charge (GHp / kWh)	18.50
Service Charge (GHp / month)	1400.00
SLT-HV	
Max. Demand (GHp/kVA/month)	1200.00
Energy Charge (GHp / kWh)	17.00
Service Charge (GHp / month)	1400.00
SLT-HV MINES	
Max. Demand (GHp/kVA/month)	1400.00
Energy Charge (GHp / kWh)	27.00
Service Charge (GHp / month)	1400.00

* The TSC of GHp 2.2615/kWh includes a regulatory levy of GHp 0.2/kWh of electricity transmitted which is payable to the Public Utilities Regulatory Commission

** Residential Consumption between 0-50 units per month will attract a Service Charge of GHp 100.00

FIFTH SCHEDULE

PROJECTIONS USED IN TARIFF COMPUTATION

Variable	Year 2010	March 01, 2011-May 31, 2011
Average Consumer Price Index	338.3573	337.5400
Average Exchange Rate (Ghana Cedi-US$ Rate)	1.5000	1.4403
Generation Mix:		
Hydro (%)	62.7	60.5
Thermal (%)	37.3	39.5
Light Crude Oil:		
Price (US$/bbl)	80.0	90.0
Premium & Handling Charges (US$/bbl)	2.5	2.5
Natural Gas Price:		
VRA-Takoradi (US$/mmbtu)	0.0	6.6
VRA-Tema (US$/mmbtu)	0.0	6.7
Asogli-Tema (US$/mmbtu)	0.0	7.05

SIXTH SCHEDULE

COMPUTATION OF PROJECTED GENERATION TARIFF USING AAF

Cost Item	Methodology
Total Local Cost (Excluding Labour Cost) (GHp/kWh)	$GT_t[(LoC_t)*(1+(A_1*(\alpha))]$
Labour Cost (GHp/kWh)	$GT_t[(LaC_t)*(1+(A_2*(\alpha))]$
Local Depreciation (GHp/kWh)	$GT_t[(LDepn_t)*(\alpha))]$
Foreign Depreciation (GHp/kWh)	$GT_t[(FDepn_t)*(\beta))]$
RoRANFA (GHp/kWh)	$GT_t[(RORANFA_t)*(\alpha))]$
Fuel Cost (GHp/kWh)	$GT_t[(FuC_t)*(FP)*(\beta))]$

Where:

GT_t	Base Generation Tariff/Charge (GHp/kWh) as Gazetted by PURC (June 01, 2010)
LoC_t	Base Total Local Cost (Excluding Labour Cost, Depreciation & RoRANFA) as Proportion of Generation Charge
LaC_t	Base Labour Cost as Proportion of Generation Charge
FuC_t	Base Fuel/Water Cost as Proportion of Generation Charge
FP	Projected Average LCO Index for Next Quarter
$LDepn_t$	Base Local Depreciation as Proportion of Generation Charge
$FDepn_t$	Base Foreign Depreciation as Proportion of Generation Charge
$RoRANFA_t$	Base Return on Re-valued Average Net Fixed Assets as Proportion of Generation Charge
α	Projected Average Inflation for Next Quarter
β	Projected Average Exchange Rate Index for Next Quarter
A_1	Decision Variable for All Other Costs (Excluding Labour Cost, RORANFA and Depreciation)
A_2	Decision Variable for Labour Cost

Hence:
GT_{t+1} (GHp/kWh) which is Defined as Projected Generation Tariff for Next Quarter is the sum of the results of above Methodology.

2. COMPUTATION OF PROJECTED BULK GENERATION CHARGE (BGC_{Adjust}) USING AAF

Projected Bulk Generation Charge, (BGC_{t+1}) is computed as follows:

$BGC_{t+1} = GM_x(HyGT_{t+1}+TapGT_{t+1}+TicGT_{t+1}+TemGT_{t+1}+SiemensGT_{t+1}+AsogGT_{t+1}+ImP_{t+1})$

Where:

BGC_{t+1} is Projected Bulk Generation Charge for Next Quarter

GM_X is Defined as Projected Proportion of Each Plant's Electricity Generation in Total Generation Mix

$HyGT_{t+1}$, $TapGT_{t+1}$, $TicGT_{t+1}$, $TemGT_{t+1}$, $SiemensGT_{t+1}$ and $AsogGT_{t+1}$ represent Projected Hydro, TAPCO, TICO, Tema1, Siemens and Asogli Generation Tariffs. ImP_{t+1} is Defined as Import Price of Electricity.

3. COMPUTATION OF PROJECTED TRANSMISSION SERVICE CHARGE (TSC_{Adjust}) USING AAF

Projected Transmission Service Charge, (TSC_{t+1}) is computed as follows:

$TSC_{t+1} = TSC_t*(LoC_t)*(A_1*(\alpha))+(TSC_t*(LaC_t)*(A_2*(\alpha))+TSC_t*((LDepn_t)*(\alpha))+(FDpen_t)*(\beta))+(TSC_t*(RoRANFA)*(\alpha))$

Where:

TSC_{t+1} is Projected Transmission Service Charge (GHp/kWh) for Next Quarter

TSC_t is Base Transmission Service Charge (GHp/kWh) (PURC Gazetted TSC)

All Other Variables are as Previously Defined in This Case With Respect to Transmission Service Charge

4. COMPUTATION OF PROJECTED DISTRIBUTION SERVICE CHARGE (DSC_{Adjust}) USING AAF

Projected Distribution Service Charge, (DSC_{t+1}) is computed as follows:

$$DSC_{t+1}=DSC_t*(LoC_t)*(A_1*(\alpha))+(DSC_t*(LaC_t)*(A_2*(\alpha))+DSC_t*((LDepn_t)*(\alpha)+(FDpen_t)*(\beta))+(DSC_t*(RoRANFA)*(\alpha)$$

Where:

DSC_{t+1} is Projected Distribution Service Charge (GHp/kWh) for Next Quarter

DSC_t is Base Distribution Service Charge (GHp/kWh) as Gazetted by PURC (June 01, 2010)

All Other Variables are as Previously Defined in This Case With Respect to Distribution Service Charge

5. COMPUTATION OF PROJECTED END-USER TARIFF (EUT) UNDER AAF

Projected End User Tariff (EUT_{t+1}) is Computed as follows:

EUT_{t+1} (GHp/kWh) = BGC_{t+1} (GHp/kWh)+TSC_{t+1} (GHp/kWh)+DSC_{t+1} (GHp/kWh)

Dr. Emmanuel K. Annan
Chairman, Public Utilities Regulatory Commission

PUBLIC UTILITIES REGULATORY COMMISSION (PURC)
PUBLICATION OF WATER TARIFFS

In accordance with the statutory duty to publish rates approved by the Public Utilities Regulatory Commission under Section 19 of the Public Utilities Regulatory Commission Act 1997 (Act 538), this publication is made this 15th February 2011.

1. The applicable tariffs for Ghana Water Company Limited (GWCL) to take effect from the March 2011billing cycle are as provided in the First Schedule hereto.

2. The rates are denominated in Ghana Pesewas.

3. The projections used in the computation of the rates are provided for in the Second Schedule.

4. These approved tariffs shall remain in force until they are changed by the Public Utilities Regulatory Commission.

5. Until the next major tariff review, electricity and water tariffs shall be adjusted as per the automatic adjustment (indexation) formula provided in the Second Schedule.

6. The rates approved by the Public Utilities Regulatory Commission to take effect from 1st June 2010 for GWCL as published in Gazette No. 38 of 28th May 2010, the automatic adjustment (indexation) formula and its related projections as published in Gazette No. 35 of 26th July, 2002 are hereby accordingly revoked and replaced with the following:

FIRST SCHEDULE

Category of Service		Monthly Consumption (1000 Litres)	Approved Rates in GHp/ 1000 Litres Effective March 2011 Billing Cycle
(a)	Metered Domestic	0-20	79.05
		21 and above	118.50
(b)	Commercial/Industrial	Flat Rate	168.45
(c)	Public Institutions /Govt. Departments	Flat Rate	152.00
(d)	Unmetered Premises-Flat rate per house per month		514.50
(e)	Premises without connection (Public stand pipes) per 1000 litres		78.15
(f)	Special Commercial per 1000 litres		479.00

NOTE:

Special Commercial refers to bulk customers who use GWCL treated water as the main raw material for bottling water for resale.

SECOND SCHEDULE

PROJECTIONS USED IN TARIFF COMPUTATION

Variable	Year 2010	March 01, 2011-May 31, 2011
Average Consumer Price Index	338.3573	337.5400
Average Exchange Rate (Ghana Cedi-US$ Rate)	1.5000	1.4403

2. COMPUTATION OF PROJECTED WATER TARIFF (WT_{Adjust}) USING AAF

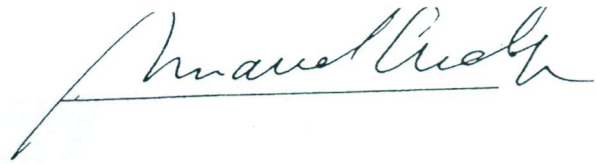
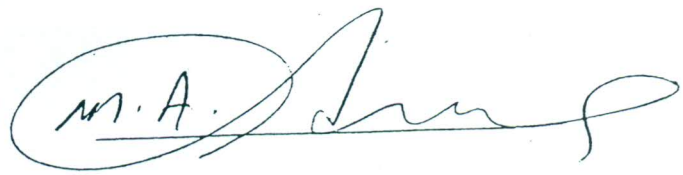
Projected Water Tariff, (WT_{t+1}) is computed as follows:

$$WT_{t+1}=WT_t*(LoC_t)*(A_1*(\alpha))+(WT_t*(LaC_t)*(A_2*(\alpha))+(WT_t*ECF)+(WT_t*(WTCC_t)*(\beta)+WT_t*((LDepn_t)*(\alpha)+(FDpen_t)*(\beta)+(WT_t*(RoRANFA)*(\alpha)$$

Where:

WT_{t+1}	is Projected Average Water Tariff (GHp/m^3) for Next Quarter
WT_t	is Base Average Water Tariff (GHp/ m^3) as Gazetted by PURC (June 01, 2010)
ECF	is Projected Electricity Cost Factor for Next Quarter
$WTCC_t$	is Base Water Treatment Chemicals Cost as Proportion of Average Water Tariff
LoC_t	is Base Total Local Cost (Excluding Labour Cost, Depreciation & RoRANFA) as Proportion of Average Water Tariff
LaC_t	is Base Labour Cost as Proportion of Average Water Tariff
$LDepn_t$	is Base Local Depreciation as Proportion of Average Water Tariff
$FDepn_t$	is Base Foreign Depreciation as Proportion of Average Water Tariff
$RoRANFA_t$	is Base Return on Re-valued Average Net Fixed Assets as Proportion of Average Water Tariff
α	is Projected Average Inflation for Next Quarter
β	is Projected Average Exchange Rate Index for Next Quarter
A_1	is Decision Variable for All Other Costs (Excluding Labour Cost, RORANFA and Depreciation)
A_2	is Decision Variable for Labour Cost

Dr. Emmanuel K. Annan
Chairman, Public Utilities Regulatory Commission

DR. E.K. ANDAH	COMMISSIONER	
HON. MOSES ASAGA	COMMISSIONER	
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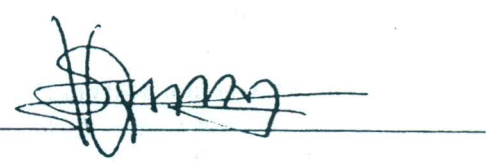
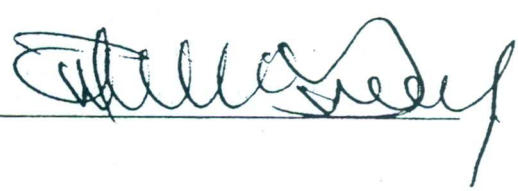
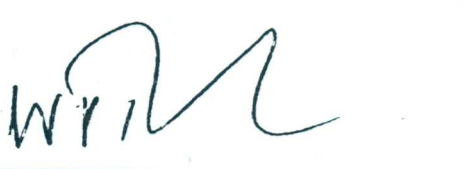
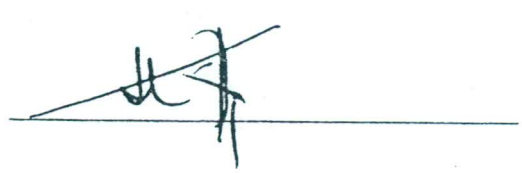
MR. SAMUEL SARPONG	COMMISSIONER	
MR. ALEX BONNEY	COMMISSIONER	
MR. WILLIAM TEWIAH	COMMISSIONER	
MR. STEPHEN ADU	COMMISSIONER	

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