

Public Power Corporation SA

Business plan 2009-2014

"Repositioning for Performance and Growth"

November 18, 2008



PPC is facing financial, operational and strategic challenges.

PPC plans to undertake significant investments till 2014 in its core activities and new developing sectors to continue its growth.

PPC will exploit all opportunities for performance improvement and revenue growth, in order to have a strong competitive position in the liberalised energy market.



PPC is facing financial, operational and strategic challenges.

Sub-optimal operations

PPC's operational performance rests below the desired and attainable levels

Regulatory challenges

Differences continue to exist in the business environment between Greece and the other European countries

Poor financials

The financial results of PPC during the last few years are not satisfactory.



In the Strategic Plan we defined an efficiency gap of about €750 m. compared with the best practices of European electric utilities

PPC has an efficiency gap of ~€750m p.a. compared to European best practices



Note(1): Lignite as compared to hard coal

The important differences that we outlined in the electricity value chain between Greece and Europe, remain today





Customer tariffs in Greece remain regulated and do not reflect costs...

Co	ountry	Industrial ⁽¹⁾	Residential ⁽¹⁾	
Greece	t	Regulated tariffs, without discrete charges, that do not reflect costs	Regulated tariffs, without discrete charges, that do not reflect costs	
Portugal	۲	Market price ⁽²⁾ or tariff with	Market price ⁽²⁾ or tariff with	
Spain		securitization of tariff deficit	securitization of tariff deficit	
France		Market price ⁽²⁾ or tariff ⁽³⁾ reflecting costs		
Belgium			Market price ⁽²⁾ or tariff ⁽³⁾ reflecting costs	
Ireland		Market price ⁽²⁾		
Italy				
United Kingdom			Market price ⁽²⁾	



... resulting in the lowest electricity prices for households in EU15 and one of the lowest in EU27

Electricity tariffs with taxes and PSOs for households with annual consumption 2500 to 5000 kWh (1st half 2008)





The non-controllable operational expenses (fuel, energy purchases and CO2 cost) increased drastically during the last five years affecting significantly the profitability

1H04 1H05 1H06 1H07 1H08

Evolution of operational expenses (€m)

Payroll Liquid fuel and natural gas Energy purchases

- Other operational expenses
- CO2 cost

Evolution of EBITDA (€ m)







PPC has submitted proposals to regulatory authorities on the pending regulatory issues



PPC's return on capital employed is considerably below other incumbent utilities



Note:

- 1) ROE = Net profit / Shareholders equity
- 2) 4 largest European utilities by market capitalization: RWE, E.ON, EdF, ENEL
- 3) With one off revenue from Tellas, ROE for PPC is 4.2%

Source: JCF Factset Analyst Consensus

Note:

1) ROCE = EBIT / Invested Capital, Bloombergs methodology to calculate ROCE might differ slightly from PPC's method

2) Companies included: E.ON, RWE, Enel, Edf and Fortum - weighted according to their market capitalization

Source: Bloomberg, Booz&Co. Analysis



ROCE tree comparison: PPC vs. five EU companies, 2007 in %



1) Companies included: E.ON, RWE, Enel, Edf and Fortum - weighted according to their market capitalization Source: Bloomberg, Booz&Co. Analysis



PPC stock price moved lower than the European utilities index and the Athens Stock Exchange index, resulting in a loss in capitalisation of € 6.3 bn.

Stock index, base Jan 2 2008=100 [Capitalization 2 Jan 08 = €8.4 bn, 11 Nov 08 = €2.1 bn]





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PPC will exploit all opportunities for performance improvement and revenue growth, in order to have a strong competitive position in the liberalised energy market.



PPC aims to become an efficient and competitive electric utility in the liberalised energy market



PPC company investment plan is c.€11.5 bn.



Investment plan 2009-2014



The execution of an investment plan of such magnitude is a challenge for PPC







PPC Generation investment plan: new power plants and decommissioning of old, inefficient plants

1	Thermal pl	ants: 3,887 MW		2	Hydro plants: 640	MW	
Power Station	Fuel	Installed Capacity (MW)	Commissioning year	Power Station	Installed Capacity (MW)	Commissioning Year	
Komotini	Natural gas	160	2009	Mesohora I,II	160	2009	
Aliveri V	Natural gas	427	2010	llarionas I.II	157	2010	
Megalopoli V	Natural gas	800	2012	Motoovitiko II	20	2010	
Florina II	Lignite	450	2013		29	2010	
Ptolemaida V	Lignite	450	2014	Sykia I,II ⁽²⁾	125	2013	
Aliveri VI ⁽¹⁾	Hard-coal	800	2014	Pefkofito I,II ⁽²⁾	160	2013	
Larimna I ⁽¹⁾	Hard-coal	800	2015				
3 Dec	ommissioning	old plants: 2.40	0 MW	4 Islands : n	ew units 990MW – Cvo	clades connection	

	. 2,400 10100		$\mathbf{H}\mathbf{H}\mathbf{S} = \mathbf{S}\mathbf{S}\mathbf{S}\mathbf{S}\mathbf{S}\mathbf{S}\mathbf{S}\mathbf{S}\mathbf{S}\mathbf{S}$	claues connection	-
Fuel	Capacity (MW)	Islands	Fuel	Capacity (MW)	
Lignite (Ptolemaida I,II,III, IV,Liptol I,II, Megalopoli I,II)	913	Crete	LNG	500+70	
Natural gas (Agios Georgios VIII, IX, Lavrio III)	540	Rhodes	Oil-fired	120	
HFO (Lavrio I,II, Aliveri III, IV)	750	Lesvos	Oil-fired	120	
Diesel and HFO in Cyclades islands	200	Various small islands	Oil-fired	180	
			Cyclades connect	ion	

Notes (1)In negotiations, to be developed with two minority partners (up to 200MW each); (2) Subject to completion of dams by the State pending minister's approval

PPC's power plant portfolio in 2014 will ensure reliability, higher efficiency and a decrease of generation costs

Installed Capacity (%) Electricity Generation (%) 0.7 0.3 6.1 3.0 6 23.6 6.9 23.4 21 21.6 15.4 15 21.2 11.8 1.8 (1) 18.9 11.7 3.8 (1) 57.7 54.9 41.4 33.8 2007 2014 2007 2014 ■ Lignite ■ Hard Coal ■ Oil ■ Natural Gas ■ Hydro ■ Renewables ■ Lignite ■ Hard Coal ■ Oil ■ Natural Gas ■ Hydro ■ Renewables

(1)Aliveri VI and Ptolemaida V will start operating in September and November 2014 respectively

After the completion of the generation program both CO2 and conventional emissions decrease

CO2 in interconnected (kg/kWh)

NOx in interconnected (g/kWh)



SO2 in interconnected (g/kWh)



PM in interconnected (g/kWh)





PPC Subsidiaries and Joint Ventures : €2.8 bn to further propel growth



Note:

PPC Renewables will invest via joint ventures with other parties. PPC Rewewables contribution in the joint ventures will be around 50% (€ 1,05 bn) SENCAP is not included.



Clear choice : Without new investments in power plants and RES, the share of PPC generation in the wholesale market will decline significantly

PPC Generation share in the wholesale market with and without investments (%)



85.7%



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With current financials, PPC cannot implement its investment plan

Projection of Free Cash Flow for PPC (€m, after proposed investment plan)

Net Debt / EBITDA

16.7



Free CO2 allowances in 2013 and 2014 as in 2012



Business Plan : Pulling all performance levers across PPC, addressing operating costs and revenue potential to realise planned investments.



CO2 base case assumption: Free allowances in 2013 and 2014, as in 2012



Targets are set for efficiency improvement with gradual reduction for PPC to €500 m annually by 2014

Targets for efficiency improvements (2008 prices)





A comprehensive operational improvement program will deliver gradually € 500 m annually by 2014

Efficiency improvement (in € m, in nominal prices)





Cost basis 2007 (€m)





Efficiency target (€ m – 2007 basis)





Personnel age distribution is skewed towards higher age groups

Benchmarking against European utilities









Assumption : Retirees are replaced by new employees 21-30 years old with same educational background

PPC will achieve the required decreases in personnel costs through the following actions:





Operational and Organisational initiatives that will result in a decrease in controllable costs





Indices (derived from prices in €)



The formula takes into account HFO and natural gas prices.



Impact of fuel adjustment mechanism in 2009 (€ m)

PPC estimate of fuel adjustment mechanism impact in 2009 (€ m)

	84	<mark>55</mark>		
	2009 Q1e	2009 Q2e	<mark>-22</mark> 2009 Q3e	-22 2009 Q4e
	2009 Q1e	2009 Q2e	2009 Q3e	2009 Q4e
Average fuel clause impact on customers bills	5.6%	-1.69%	-5.05%	0%

Change over previous quarter



PSOs mechanism

PPC estimate of PSOs (€m)

1. Due to:

- Uniform tariffs in Greece applying also to noninterconnected islands
- Special tariff for large families
- 2. Based on
 - the difference of the cost for generating electricity in the islands vs the mainland.
- 3. PSOs revenues are based on previous year's costs





PPC would propose tariff increases by a total of 5% above inflation over the six year period

Proposed tariff increases (%)

	2009	2010	2011	2012	2013	2014
Nominal tariff increase	1%	5%	5%	5%	4%	3%
Inflation	3%	3%	3%	3%	3%	3%
Real tariff increase	-2%	2%	2%	2%	1%	0%



Tariff increases will result in revenue increase of €1.4bn

Average revenue in nominal terms (€ / MWh)

PPC share in retail market (interconnected) (%)







New i

Tariff increase, cost reduction as well as internal and external funding enable PPC to robustly finance the investment program

Uses and sources of funds (in €bn)

Uses of funds			Sources of funds
	15.5	15.5	
		0.9	Net income from business as usual
		1.4	Revenue increase
New investments PPC		2.2	Controllable Cost reduction
	10.7	1.8	New connection charges
		4.5	Additional debt
nvestments subsidiaries	2.8	4 7	
Dividend payments	1.6	4./	Depreciation
Cash and other assets	0:4	1	



With implementation of Business Plan all financial indices present a positive trend





Projection of Debt Ratios for PPC





Alternative assumption : no free CO2 allowances post 2012



CO2 alternative assumption: No free CO2 allowances in 2013 and 2014



If there are no free CO2 allowances post 2012, PPC will be impacted by an annual expenditure of c.€1.4bn

CO2 Economics

	2013	2014
CO2 Costs (EUR)	1,379,000,000	1,360,000,000
Total impact on average tariff (€/ MWh)	26	26
Proposed increase in average tariff (€/ MWh)	10.8 (42%)	4.1 (14.9; 54%)
Resulting additional revenues*	503,000,000	662,000,000

Note: CO2 price assumption post 2012 €28/tn

* After supply market share losses

CO2 alternative assumption: No free allowances in 2013 and 2014



With additional CO2 costs, PPC would propose tariff increases by a total of 17% above inflation over the six year period

Proposed tariff increases if no free allowances in 2013 and 2014 (%)

	2009	2010	2011	2012	2013	2014
Nominal tariff increase	1%	5%	5%	5%	13%	6%
Inflation	3%	3%	3%	3%	3%	3%
Real tariff increase	-2%	2%	2%	2%	10%	3%



With additional CO2 costs, PPC will achieve a 31.3% EBITDA margin and a 3.9x Net Debt / EBITDA in 2014



CO2 alternative assumption: No free allowances in 2013 and 2014



If the proposed by PPC tariff increases are not realised, alternative options will have to be examined

Reduction of Funds Outflows

Decrease of dividends

Share investments

Deferring/ Cancellation of investments

Further reduction of controllable cost

Increase of Funds Inflows Asset disposal

Equity increase



The Business Plan balances in a satisfactory way the expectations of the customers and employees, and creates shareholders' value



Thank you U



Appendix



Parameters	ุ่∆ยๅกุล
Brent	65 USD / bbl
USD/EUR	1.25 USD / EUR
Price of hard coal	90 USD / t
Cost of CO ₂	NAP II 20 -23 €/t NAP III 28 €/t
Free allocated CO2 rights for 2009- 2011	44.3Mio. t p.a.
Free allocated CO2 rights for 2012	42.6Mio. t p.a.
Consumer Price Index	3.2% in 2009 2.9% from 2010
Producer Price Index	4%



Annual demand growth (GWh) (%)



Islands





Source: HTSO PPC

Note: interconnection of Cyclades in 2012