



AKENERJİ ELEKTRİK ÜRETİM A.Ş.

2013



COMPANY OVERVIEW



➤ Private Energy Company

648 MW active power capacity (Natural gas, Hydro and wind)

900 MW natural gas to be operational 2H2014

198 MW hydro at development stage

➤ Role in Market

- Established in 1989, one of the largest and most experienced players in the market.
- Single-handedly produces 2% of energy generated in Turkey and is one of the market leaders among private generation companies. (10 % of private generators)

➤ Ranking in the Major 500

- Ranked in the list of “500 Major Industrial Enterprises of Turkey Research” by Istanbul Chamber of Industry consequently in the last 8 years

➤ Ownership Structure

- IPO-ed June 2000

Akkök	37,36 %
CEZ	37,36 %
Public	25,28 %



STRONG SHAREHOLDER SYNERGY



AKKÖK GROUP

- One of the biggest industrial groups in Turkey
- Active in several sectors with main focus on Chemicals, Energy, Real Estate, Port Operations, IT and Insurance
- The group with around 4000 employees, combined revenues amounting to \$ 2.7 billion in 2011.
- Sectoral Breakdown of Group's Turnover in 2011:
 - Chemicals :40%
 - Energy :50%
 - Others :10%

www.akkok.com.tr



CEZ GROUP

- CEZ is the largest Czech corporation, and the largest corporation among 10 new EU member states
- 8th largest Power Utility company in terms of market capitalization in Europe
- Vertically integrated in the Czech Republic – from mining through generation to distribution and supply
- Expertise in distribution and supply in Bulgaria and Romania
- Generation know-how in lignite, coal, hydro and nuclear energy
- CEZ announced 8,6 billion EUR net sales in 2012

www.cez.cz





GLOBAL TRENDS & EXPECTATIONS IN ENERGY



HOW TO MEET THE GROWING DEMAND



➤ Today, with the growth of the economies, demand for energy is increasing. As a result, further investments and diversification of the energy sources seems immanent. With the developed energy markets, unefficient/expensive power plants will be eliminated and efficient/cheap ones will survive and present lower priced electricity to the end-user.

➤ Power and utility organizations will need to double their base load generation (traditional and renewable sources) to address the growing energy demands of our global economy over the next 30 years.

➤ They also will need to invest in new technologies for carbon capture, smart metering and demand side management and to reconfigure transmission and distribution systems to successfully integrate new sources of energy .



DEMAND FOR ENERGY IS DRIVEN BY EMERGING MARKETS

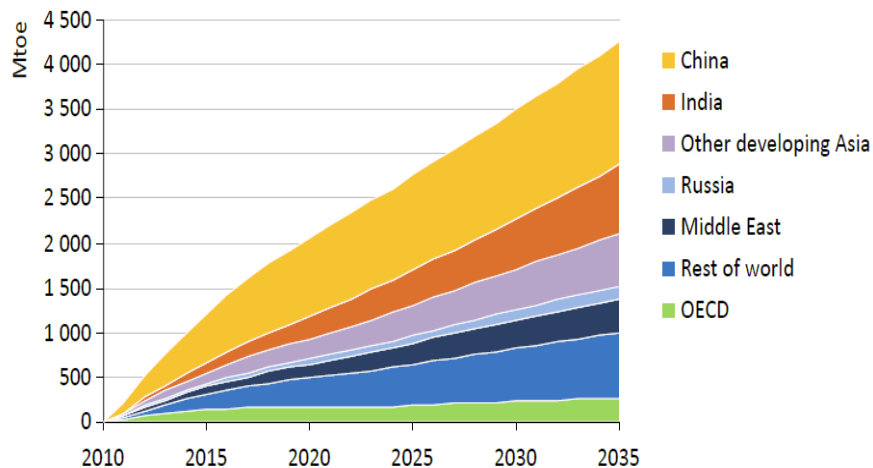


➤ According to IEA World energy Outlook Report-2011, world primary energy demand will increase by one-third b/w 2010 and 2035.

➤ 90% of the projected growth comes from non-OECD economies;

- China alone accounts for more than 30%.
- Demand in India, Indonesia, Brazil and the Middle East are faster than in China.

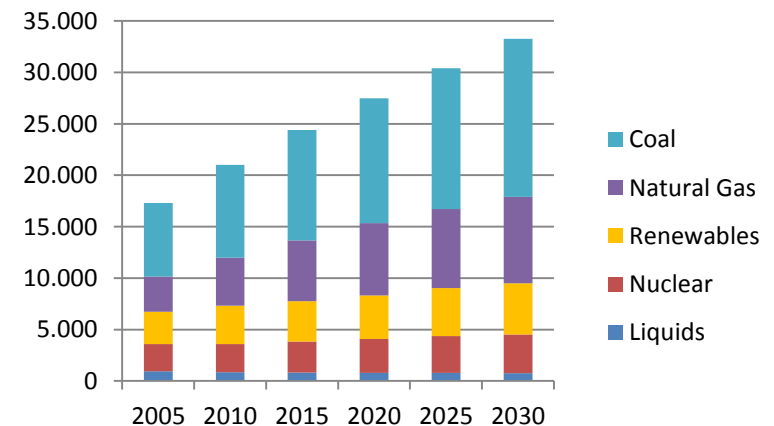
Growth in primary energy demand in the New Policies Scenario



➤ It is forecasted that the increased need in baseload capacity will be primarily met through coal, natural gas and renewable sources.

Production Breakdown Forecast

World's Electricity Production by Fuel (Trillion kWh)



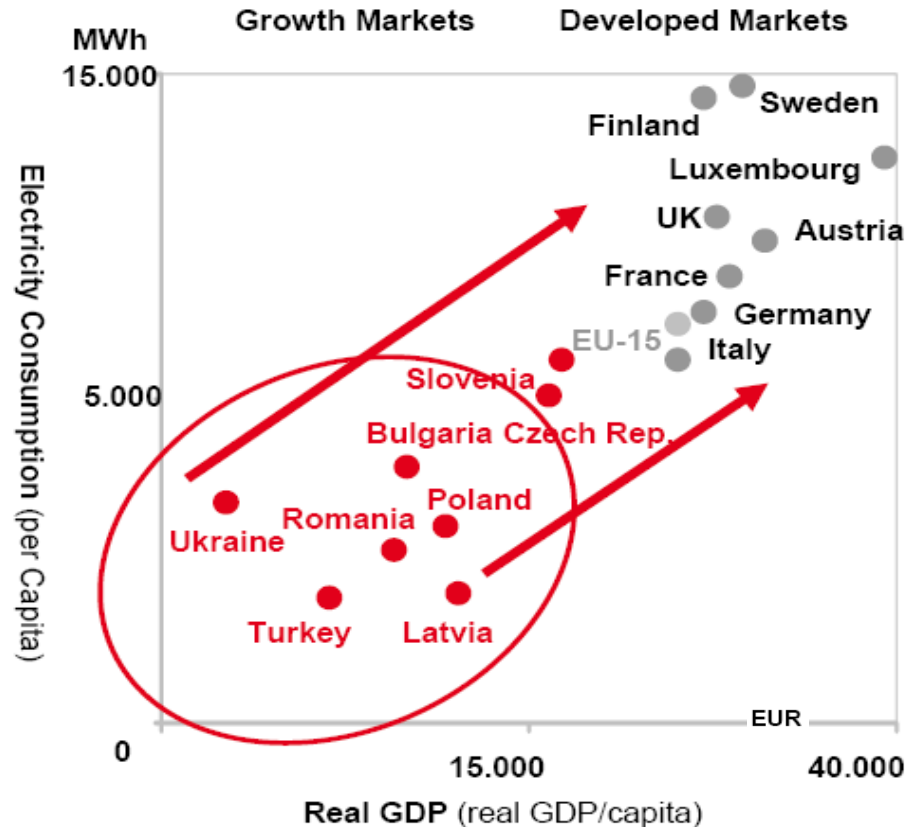
NATURAL GAS CONSUMPTION EXPECTED TO CATCH UP COAL BY 2035



- Natural gas is the only fuel to increase its share in the global mix
- Gas demand increases at an average rate of 1.7% p.a. globally
- 81% of global gas demand and 70% of global gas production is driven by non-OECD countries
- Unconventional gas (tight gas, shale, coalbed methane) is set to play an increasingly important role
- Increase in gas-powered base load will increase the role natural gas plays in energy pricing

TRENDS & EXPECTATIONS IN TURKISH ENERGY MARKET

DEMAND GROWTH & POTENTIAL



➤ Turkey represents a significant potential in terms of consumption per capita while compared to the other countries with its increasing young population and economic growth potential.

➤ Electricity consumption is mainly effected by GDP, population growth, urbanization, climate change and efficiency applications.

GDP	2011	2012
Turkey	8.5%	2% ; 4%
EU	1.4% ; 1.6%	-1.2 %;-0.5%

Source: IMF, OECD, WB, UN, Govt,

➤ It has been historically observed globally that the electricity market tends to grow +4% on average above the country growth rate. The difference in electricity demand and growth rates tends to be higher in developing countries, like Turkey.

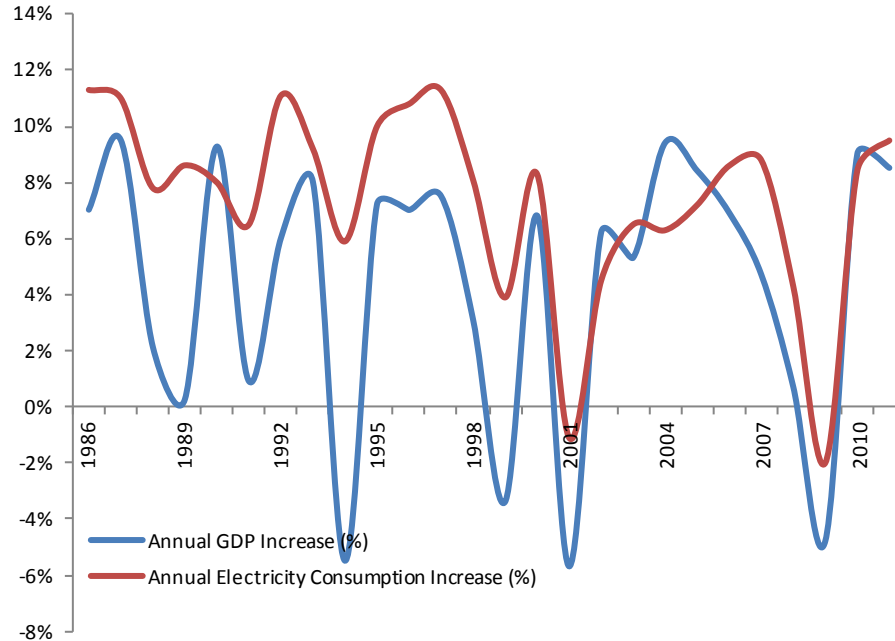
	Growth Markets	Developed Markets
Electricity demand growth	+ 3-7%	+ 1-2%
GDP growth	+ 4-10%	+ 1-3%



CONSUMPTION DYNAMICS



Electricity Consumption Trend



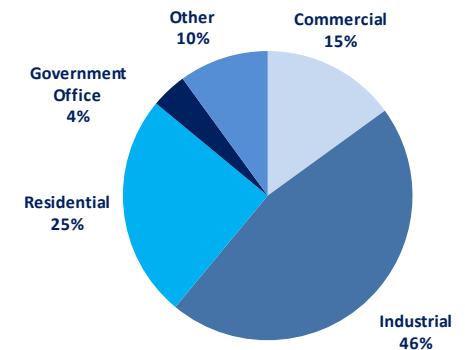
➤ In the last 20 years, net electricity consumption increased remarkably with 7 % CAGR.

➤ TEİAŞ forecasts average annual consumption growth of 7 % per year for 2010 to 2019. The consumption growth may be shifted due to the global crises but the imbalance remains a problem. The global crises provides an opportunity for Turkey to improve the investment environment and create a healthy, competitive market.

➤ Electricity consumption proved to be resilient to the downturns in the economy. Increase in electricity demand has mostly been much higher than the increase in national income in growth years, while staying at the positive territory during recession years:

	Years : Financial Crises	
	2001	2009
GDP in Turkey	-5,7%	-4,7%
Elec. Consumption	-1,2%	-3,1%

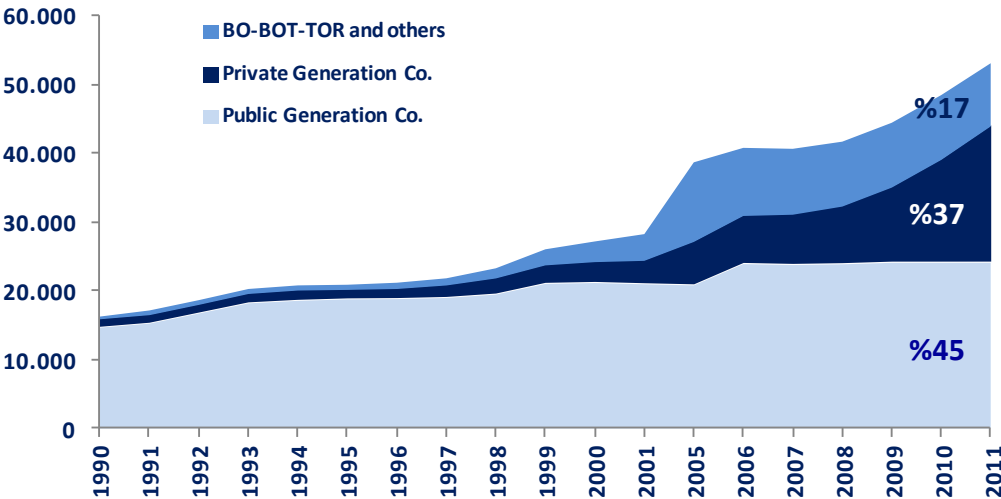
Power Consumption Breakdown in Turkey



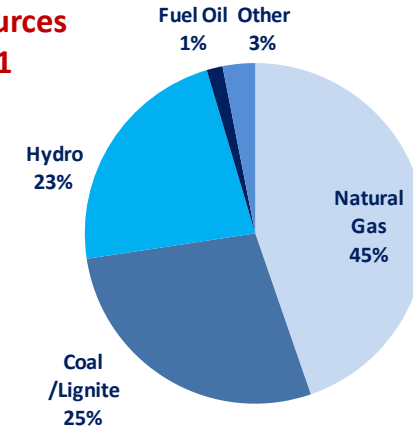
GENERATION CHARACTERISTICS



Turkey's Installed Capacity by Generation Companies (MW)



**Fuel Sources
2011**



➤ Today, majority of the electricity produced in Turkey is generated through state-owned/operated power plants.

➤ Import and Export of electricity depend on Governmental permits. Due to technical infrastructure, capacity for trade is very limited.

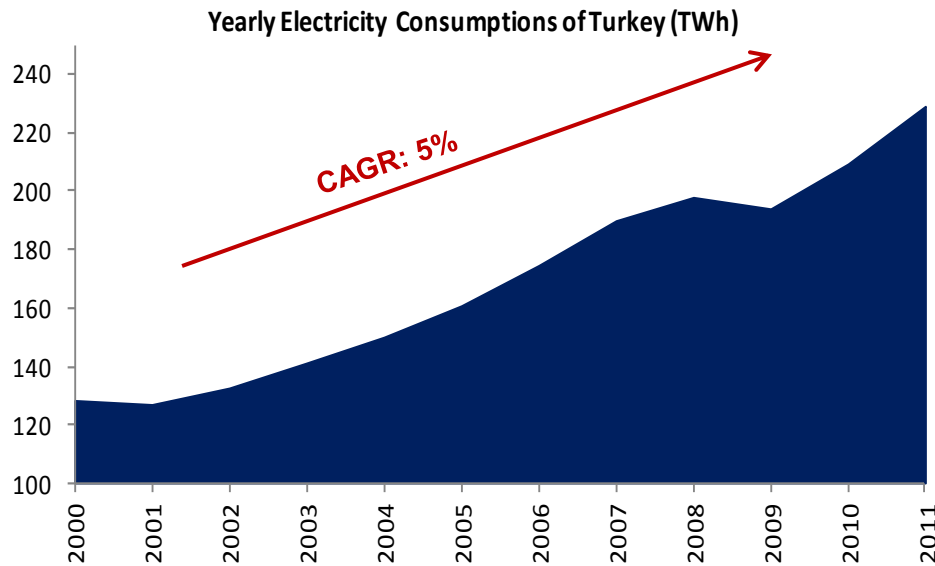
➤ Currently the majority (90%) of natural gas is being imported by the government, there is no alternative and no price competition for natural gas in the market. As a result, that the electricity price is mainly sensitive to the NG price trend.



YEARLY & MONTHLY GROWTH TRENDS

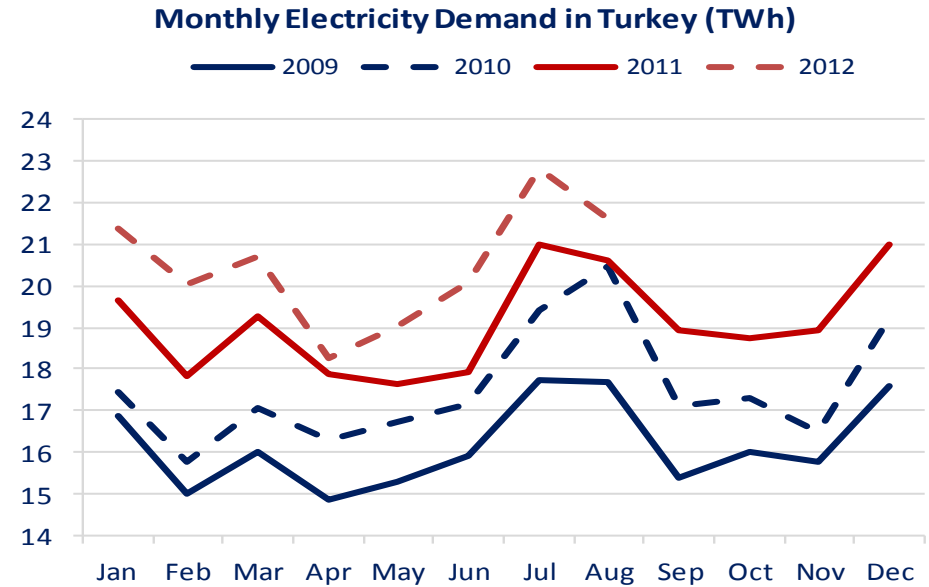


➤ In 2011, consumption increased yoy by 9% and has been 229 TWh in Turkey.



TWh	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Turkey	128	127	133	141	150	161	175	190	198	194	209	229

➤ MoM increase in 2012 for the eight months is 8% in Turkey.



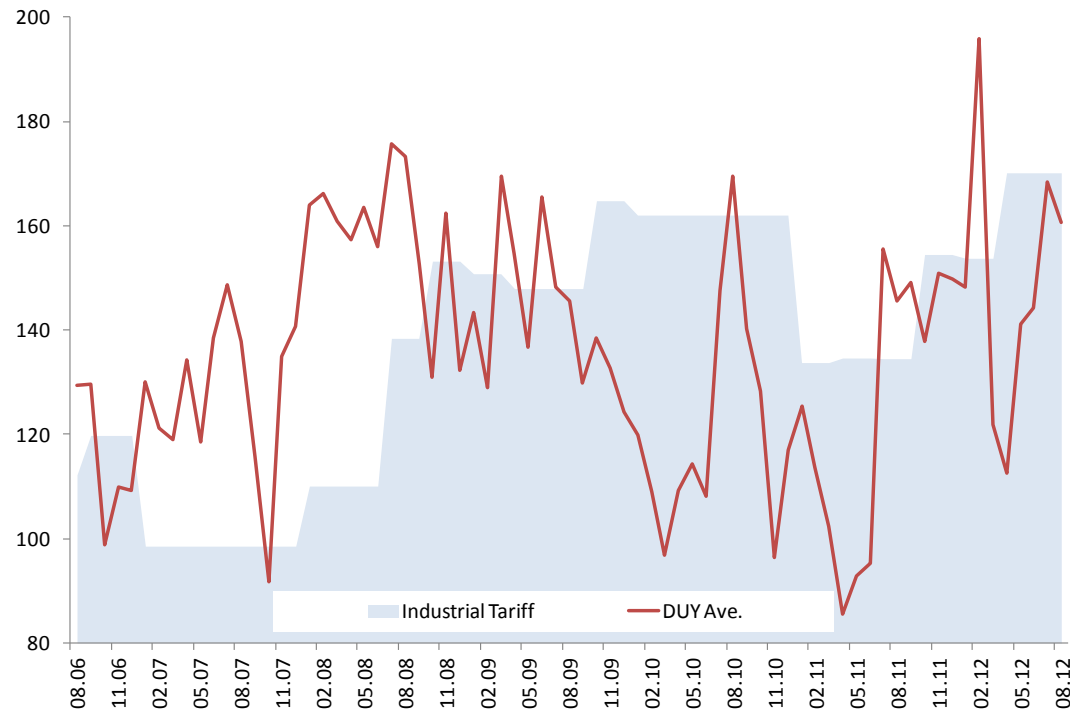
➤ We expect Turkey to grow 3-4% in 2012 and forecast electricity demand growth to be higher than the country growth.



MARKET MECHANISM



TRY/MWh



- The official electricity tariff (for residential /commercial/industrial use) is set by the government every 3 months as per APM*.
- NG tariffs are determined by the government, and adjusted quarterly by APM (the private gas suppliers operate by providing a discount rate off of the official tariff).
- The amount of imbalance in the market drives the price since the last-resort producers are predominantly NG/fuel-oil plants → increasing electricity shortage forecasts indicate higher prices to come.

Private sector generation companies have the following sales platforms:

- 1) Contract the customer directly and provide them a discount rate from the official tariff
- 2) Selling to DUY system by quoting generation price/power plant and per the specific time-segment of the day (price, that the company itself announces per its own power plants)
- 3) Bilateral contracts with other players in the market with fixed prices

*APM : Automatic Pricing Mechanism initiated in July.2008, where electricity and natural gas tariffs are automatically calculated and periodically applied according to the changes in price of fuel sources, FX rates, inflation rates etc.

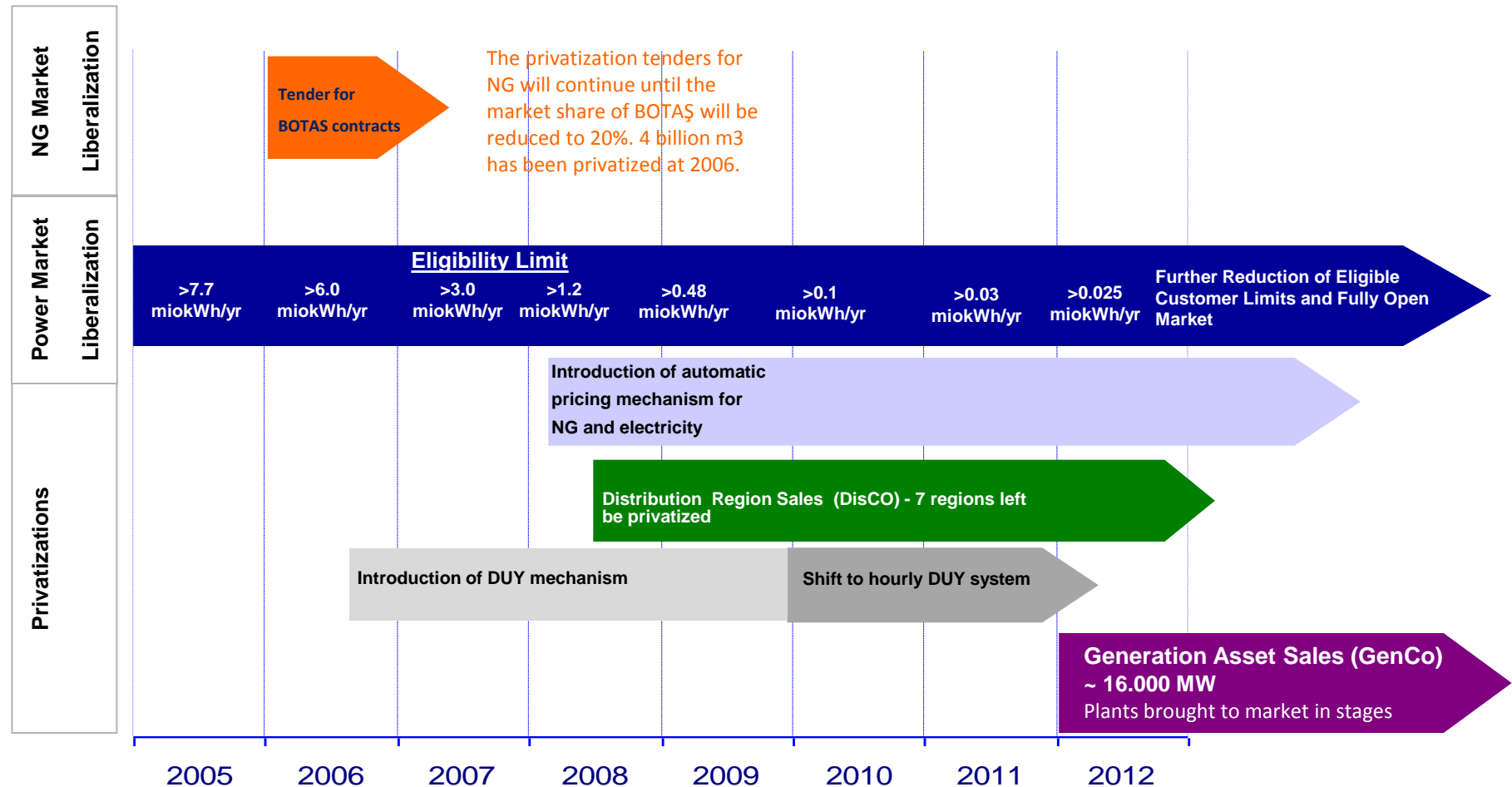
**DUY : Clearing house system was initiated in Aug.2006, and provides an “open-market platform” for the power generation companies, since the price is set by the generation company according to the supply and demand dynamics, and is not limited by the official tariff. Sales to the DUY(Electricity Market Balancing and Settlement Regulation) system are exempt from TRT/Energy fund and transmission losses.



MARKET LIBERALIZATION SCHEDULE



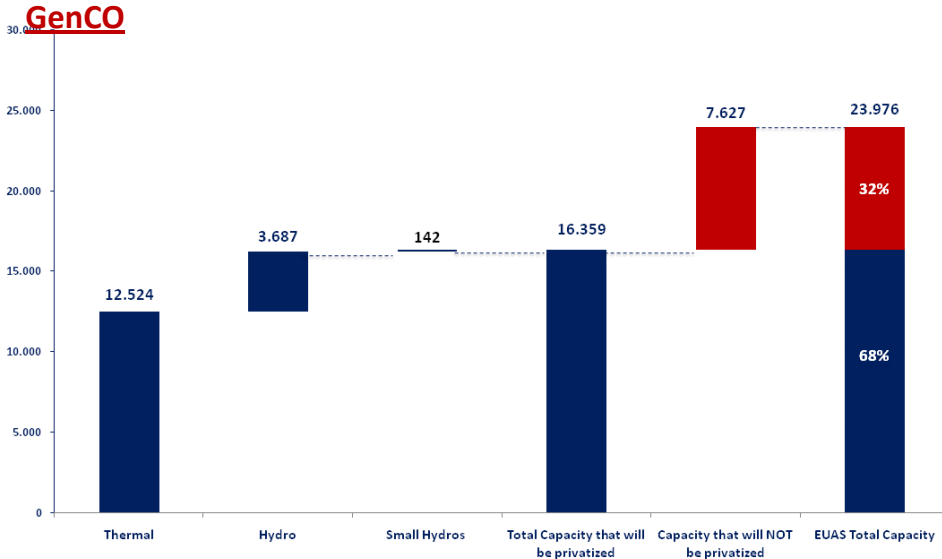
Turkish Energy Market deregulation is developed after the UK Model and has been proceeding as per below schedule. Privatization & Liberalization should be expected to start to help create a transparent & competitive market environment.



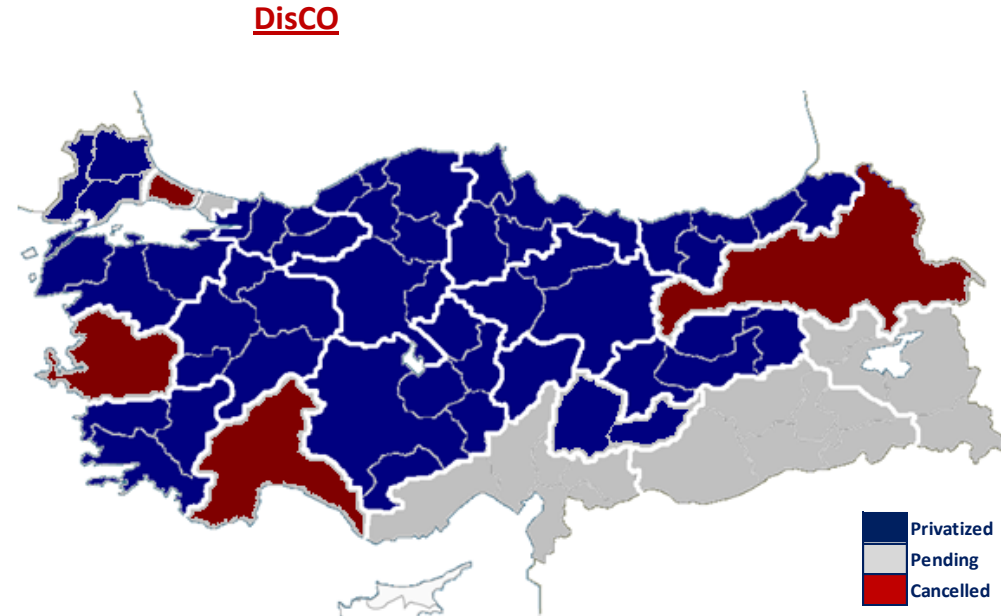
- Timing of remaining DisCO tenders and kick off of GenCO tenders remain unannounced.
- The delays in the liberalization result in prolonging of regulated period.

PRIVATIZATION OVERVIEW

The aim of the GenCo privatizations is to increase the efficiency in the market and provide cheap electricity to the end-user.



- %37 of Turkey's capacity will be offered to the private sector.
- The Government is planning to privatize 97 of its power plants with a total capacity of 16.358 MW.
- 18 Thermal, 28 Hydro power plants and 52 small sized hydros will be privatized.



- Among 21 DisCOs, 3 tenders were cancelled and 4 tenders are pending.



AKENERJİ



AKENERJI HIGHLIGHTS



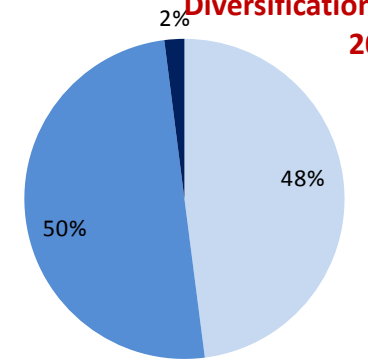
- **Diversified portfolio mix**
- **Tripling base load capacity through Egemer by 2014**
- **Experienced trading staff**
- **Profitability Margins are effected positively because of renewables in the portfolio**
- **The total capacity of 388 MW renewable portfolio enables Akenerji to avoid over 1 million tons of CO2 release**
- **All renewable projects in investment phase and operational are bank financed before 2008**
- **Egemer project financing (651 mio USD) was closed in 2011**



OPERATIONS and INVESTMENTS

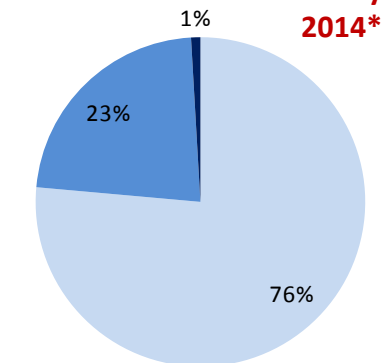


Capacity
Diversification by
2012



■ Natural Gas ■ Hydro ■ Wind

Capacity
Diversification by
2014*



■ Natural Gas ■ Hydro ■ Wind
18



Operational Power Plants	Capacity [MW]
Bozüyük NGPP	132
Kemalpaşa NGPP	127,6
Ayyıldız WPP	15
Akocak HPP	81
Bulam HPP	7
Uluabat HPP	100
Burç HPP	28
Fekeli HES	30
Fekeli II HPP	70
Himmetli HPP	27
Gökkaya HPP	30
TOTAL	648

Investments	Capacity [MW]	COD
Egemer	900	2014
Kemah	198	Development Phase
Geothermal License	5 Permits	Development Phase



* Capacity breakdown is based on the licensed investment assumptions given in the previous slides .

SALES & PRICING ASSUMPTIONS

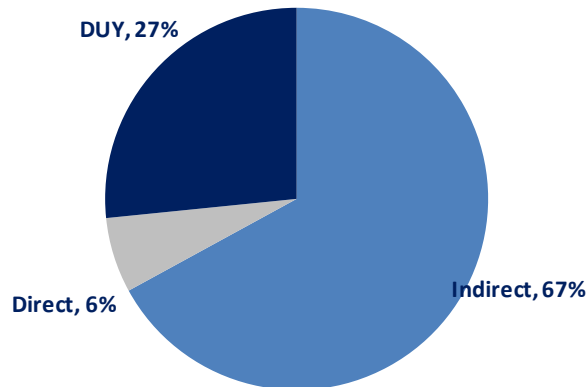
Akenerji has 3 main types of customers: direct, and indirect customers, and DUY system.



DIRECT-INDIRECT SALES *

- Tariff for sales to direct and indirect customers are set as a function of the government's tariff. Akenerji applies a discount rate for direct customers and indirect customers.
- Akenerji is the sole supplier of steam for its customers, and hence can directly reflect the NG price changes in its steam price.

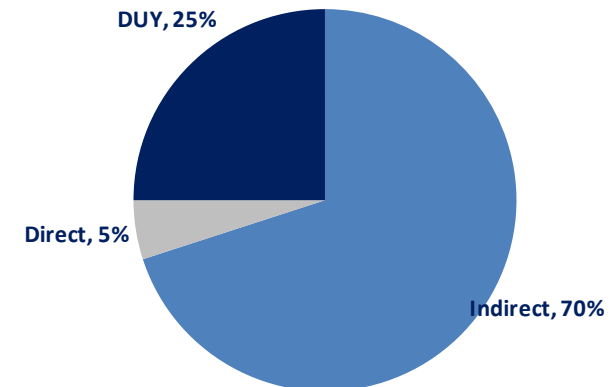
2011 Sales Breakdown



DUY SALES

- In the DUY Market, since the price is set by the generation company according to the supply and demand dynamics, and is not limited by the official tariff. In Dec.2009, DUY system switched to hourly pricing mechanism. Approximately 80% of sales in Turkey are sold with bilateral contracts with regulated tariff and the remaining take place in the DUY Market.
- For 2012, we expect 3-4% GDP growth and electricity demand to increase by 5-6%. Additionally market will have 3500-4000 MW extra capacity so, we see more competition in both DUY market and bilateral market. We have structured our sales portfolio according to these assumptions.

2012 Sales Forecast



* : Direct customers have a physical direct line to the power plant, whereas the indirect customers are supplied through the national grid (at additional cost).

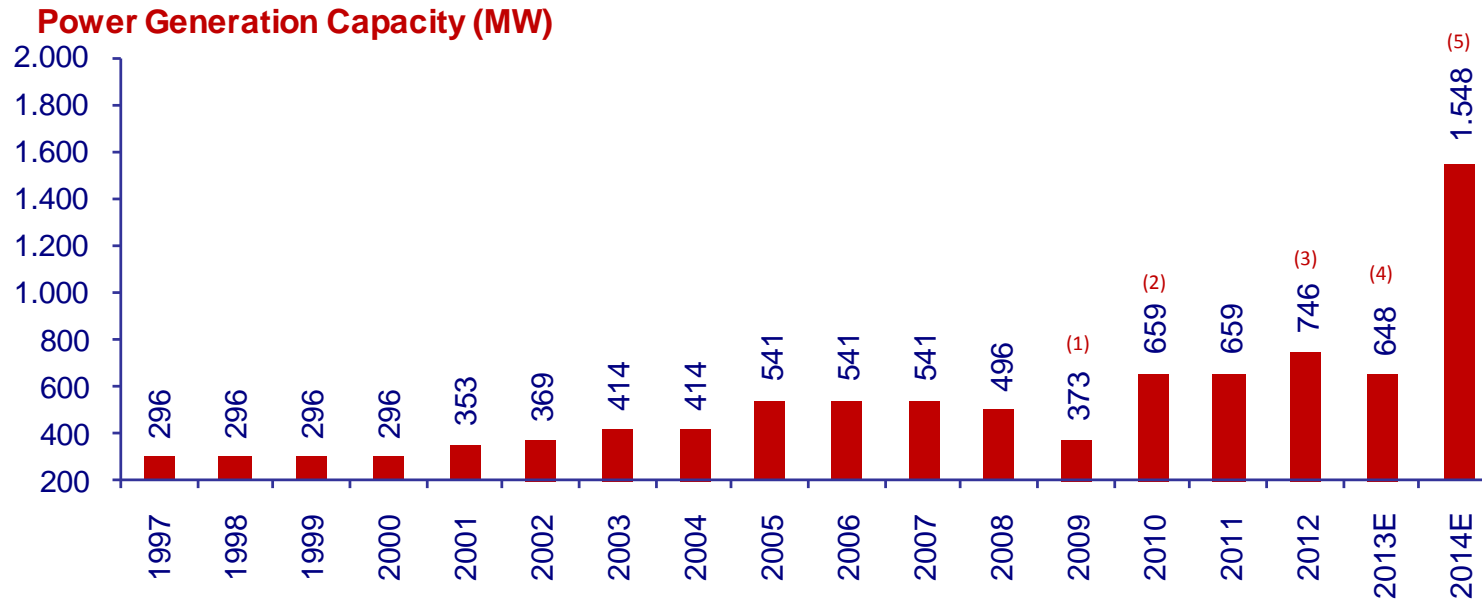


CAPACITY & SALES FORECAST*

* These forecasts are based on the licensed investment assumptions given in the previous slides .



- With the completion of Egemer project, Akenerji's power generation capacity will increase with a CAGR of 28% by 2014.
- Average capacity utilisation rate can be considered as 30-40 % for hydro, 30-35% for wind power plants.
- In base load conditions 70-80% capacity utilisation rate can be used for our current operational NG fired power plants.



(1) : Ayyıldız WPP (15MW) has become operative.

Yalova NG PP (70MW) has sold to Akxa (Akkök Group Company).

69MW installed in various locations of Turkey have sold

(2) : Five HPPs commenced operations with a total capacity of 286MW

(3) : 3 HPPs, total capacity of 87 MW, became operational

(4) : Çerkezköy NG PP (98MW) decided to stop its operations

(5) : 900MW Egemer NGPP project and will become online





EGEMER HIGHLIGHTS



- Egemer is a 900 MW, natural gas Combined Cycle Power Plant
- The project is the largest investment of Akenerji and tripling the base load capacity
- One of the most efficient projects in Turkey with a desirable coastal location, located in Erzin/Hatay, in the south of the country
- The project will be operational in 2014
- Designed to be as an eco-friendly and contemporary power plant and expected to generate an annual average of 6,7 billion kWh of electricity
- Turnkey EPC agreement, (Engineering/Procurement/Construction), was signed with GE&Gama
- The project will employ more than 500 people during construction and 80 people during operation
- Environment Impact Assessment Report have been received and permits regarding the construction have been obtained
- Construction has started on site
- Total project cost will be 930 mio USD and consists of EPC contract price, financing interest during the construction, VAT and other reimbursable costs and a considerable amount of contingency, and financed with 70:30 debt:equity structure



FINANCING STRATEGY



- Akenerji's Projects are in compliance with international environmental standards which enables access to international financing

- Akenerji prefers project financing for each SPV
 - Projects are financed with grace period + minimum 5+ year terms
 - Competitive pricing
 - Target Debt:Equity ratio is 70:30
 - Relatively low margins due to strong and attractive Akenerji Projects from Lenders' perspective
 - Limited support requirement from Akenerji



MAIN CAPEX ASSUMPTIONS



- For CAPEX estimations, the following data can be used:
 - 1,2-1,5 mio \$/MW for HPPs,
 - 0,75-1 mio \$/MW for NG PPs,
 - and 1,5-2 mio \$/MW for wind projects.
- For investment period estimations , the following data can be used:
 - 2 years for WPPs,
 - 2-3 years for NG PPs ,
 - and 3 years for HPPs.
- Akenerji applies 30% equity-70% debt structure to its investments.
- All of Akenerji's renewable projects are eligible to benefit from the Renewable Energy Law- i.e. a purchasing guarantee for 10 years at a price to be determined by EMRA on a yearly basis. (Currently 7,3 \$ cent/kwh)
- Akenerji has applied for VER (voluntary emission trading) certificates for ALL of its renewable portfolio.



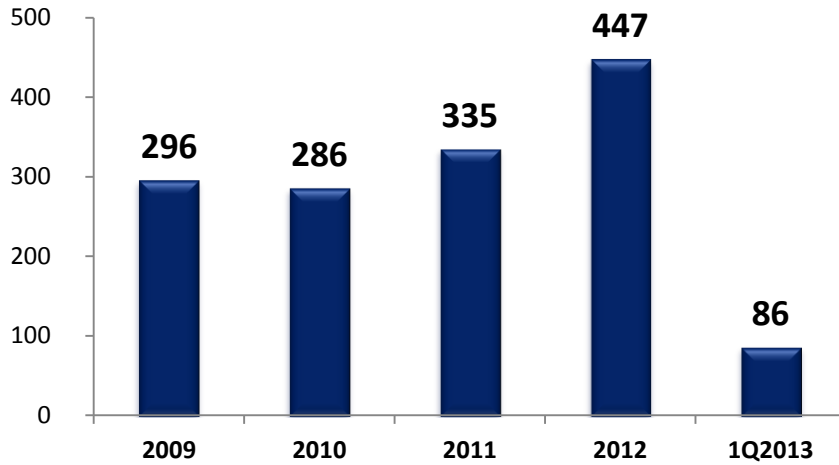
FINANCIAL INFORMATION



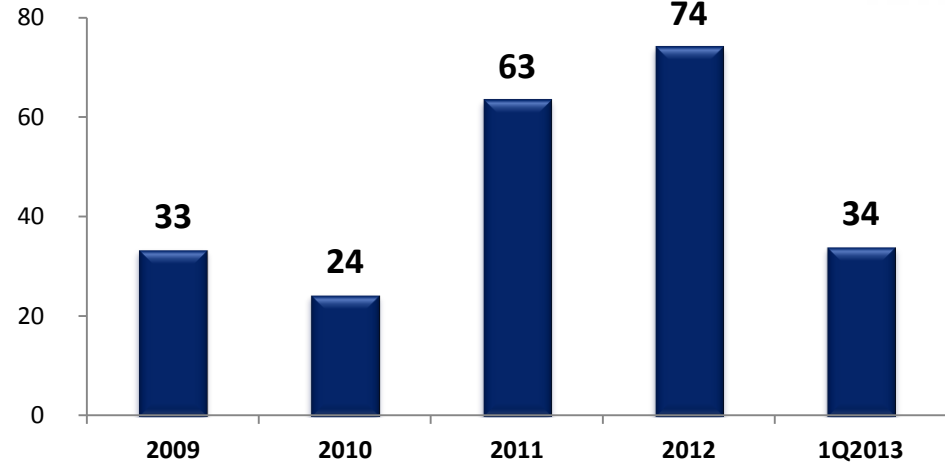
FINANCIAL PERFORMANCE



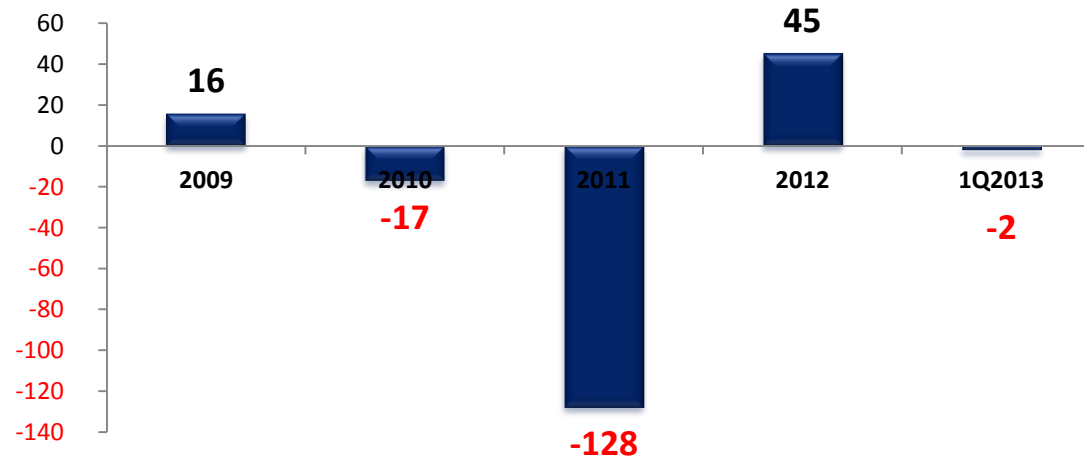
Net Sales (mio USD)



Ebitda (mio USD)



Net Profit (mio USD)



PROFITABILITY PERFORMANCE



Yearly Profitability Margins

	2002	2003*	2004*	2005	2006*	2007*	2008	2009	2010	2011	2012	1Q2013
EBITDA Margin	17%	18%	13%	-5%	0%	9%	15%	11%	9%	19%	17%	39%
Net Margin	15%	2%	-5%	-20%	-7%	1%	15%	5%	-6%	-38%	10%	-2%

Quarterly Profitability Margins

	1Q2010	2Q2010	3Q2010	4Q2010	1Q2011	2Q2011	3Q2011	4Q2011	1Q2012	2Q2012	3Q2012	4Q2012	1Q2013
EBITDA Margin	15%	5%	8%	8%	20%	35%	23%	-2%	10%	25%	16%	14%	39%
Net Margin	-10%	-26%	23%	-16%	3%	-29%	-91%	-31%	30%	7%	11%	-12%	-2%

- **In the last three years, Akenerji incurred min 9% and max 19% Ebitda Margin with its diversified portfolio. With having three new hydro projects in 2012 with a total capacity of 87 MW, we expect that 2013 Ebitda margin will realize higher than previous years.**

* : In CMB's new inflation adjusted accounting terms.

* : TRT fund has been left out of the above calculations to better reveal performance.

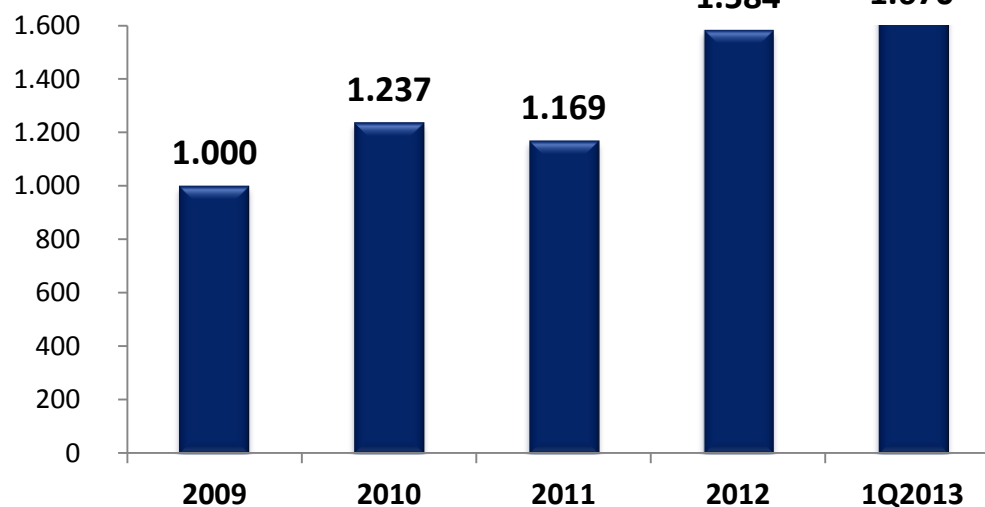
* : Impairment losses (Provision the potential value difference resulting from power plant sales) have been left out of the above calculations to better reveal operational performance.



CONSOLIDATED BALANCE SHEET



Size of Balance Sheet (mio USD)



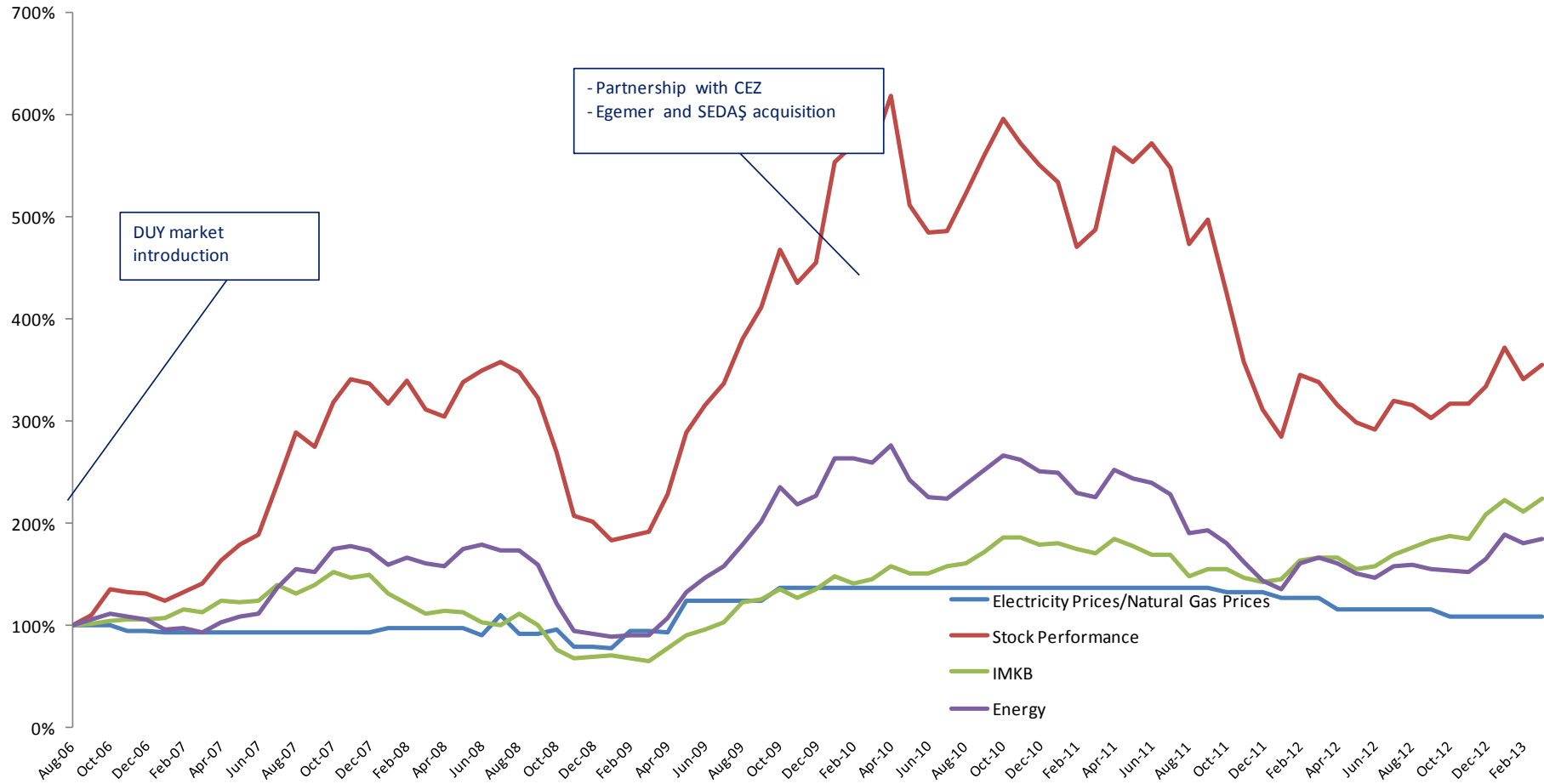
Debt Structure (mio USD)	2010	2011	2012	1Q2013
Cash	26	45	97	78
Short-term Financial Debts	227	249	128	142
Long-term Financial Debts	372	496	691	754
Net Debt	(573)	(700)	(721)	(818)

Key Ratios	2010	2011	2012	1Q2013
Current Ratio	0,6	0,3	1,1	0,9
Leverage	1,5	3,3	2,0	2,2
Total Liabilities/Total Assets	0,6	0,8	0,7	0,7
ROE (%)	-3%	-41%	9%	0%

Leverage = Total Liabilities / Shareholders's Equity

ROE = Net Profit (Loss) / Shareholders's Equity

STOCK PERFORMANCE



ABBREVIATIONS



MW	: Megawatt
GW	: Gigawatt
NG	: Natural Gas
GDP	: Gross Domestic Product
CAGR	: Compound Annual Growth Rate
DUY	: Electricity Market Balancing and Settlement Regulation System
DISCO	: Distribution Companies
GENCO	: Generation Companies
COD	: Commercial Operation Date
TWh	: Terawatthour
EUAS	: Electricity Generation Co.Inc.
APM	: Automatic Pricing Mechanism
TRT	: Turkish Radio - Television Corporation
HPP	: Hydroelectric Power Plant
WPP	: Wind Power Plant
NG PP	: Natural Gas Fired Power Plant
USD	: US Dollars
mio \$: Million Dollars
PP	: Power Plant
SPV	: Special Purpose Vehicle Entity
VER	: Voluntary Emmission Trading
EMRA	: Electricity Market Regulatory Authority
EBITDA	: Earnings Before Interest, Tax, Depreciation & Amortization
CMB	: Capital Markets Board of Turkey
TRY	: Turkish Lira
ROE	: Return on Equity : Net Income / Shareholders' Equity

AKENERJI INVESTOR RELATIONS



Akenerji Elektrik Üretim A.Ş.

Miralay Şefik Bey Sok.

No:15 Akhan

34437 Gümüşsuyu

İstanbul

Turkey

info@akenerji.com.tr

Gamze DİNÇKÖK YÜCAOĞLU

+90 212 249 82 82

gdinckok@akenerji.com.tr

Nilüfer AYDOĞAN

+90 212 249 82 82 (ext:21130)

+90 212 393 50 18

naltintasi@akenerji.com.tr

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