# Enerjisa Energy Day Presentation

March 1, 2016





#### > Turkish Electricity Market

- Enerjisa Company Profile
- Strategic Priorities and Competitive Advantages
- Distribution & Retail Regions
- Distribution Business Update
- Retail Business Update
- Generation Business Update
- Financials in Detail

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 $\rightarrow$  Power market firmly set for competitive regime

 $\rightarrow$  Implementation of a market-based utility sector framework



# **Significant Opportunities for Energy Sector**





# Issues are Dissipating as Market is Evolving

SHORT TERM		
Hydrology	Normalized	
Natural Gas Subsidy	Practically removed due to low oil prices	
Generation Privatizations	Continued as planned	
Global Commodity Prices	Recovery is expected in medium to long term	
Establishment of EPIAS	Fully operational	
	MID-TERM	
	I New tariff period V	m  ′isi

- Improvement with a clear visibility of certain parameters for 5 years Recovery is expected in
- medium term following the expiry of BO-BOT contracts
  - **Continued as planned**

#### LONG TERM

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Industry Transformation

In progress



**Overcapacity leading** 

Liberalization

depressed power prices

#### **Price Upside depends on Demand Improvement**





DISTRIBUTION

### **Continued Improvement of Distribution & Retail** Market Expectations

#### 2015

- Tariff parameters set for 2016-2020 period allowing more visibility for financials
- Real WACC: Increased from 9.97% to 11.91%
- OPEX allowance improved, CAPEX allowance improved significantly
- Adjusted Theft and Loss targets.
- Tariff parameters set for regulated market allowing improvement in financial performance
- Liberalisation to continue in-line with expectations

 Companies focus on operational excellence to outperform regulatory targets

**Mid Term Expectations** 

- Additional income through service differentiation and new products/ services (e.g. consulting).
- Additional income from advertising and rental incomes.

- Full market openning in 2017-2018 period, eligibility limit to become «zero»
- BO-BOT contracts to be expired and market liquidity will increase
- Companies focus on establishing systems/processes, branding and value added products/services



RETAIL



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### **Competitive Advantage Across Business Lines**

	Drivers	Key Success Factors	Enerjisa's Competitive Advantage
Generation	<ul> <li>Capex</li> <li>Cost of running plants</li> <li>Availability</li> </ul>	<ul> <li>Construction and project management skills</li> <li>Operational efficiency</li> <li>Dispatching</li> <li>Best in class trading</li> </ul>	<ul> <li>Diversified generation portfolio with lowest operational cost in each asset class</li> <li>Dispatch and trading know- how transfered from E.ON</li> </ul>
Distribution	<ul> <li>Regulated return vs. financing costs</li> <li>Performance compared to regulatory targets</li> </ul>	<ul> <li>Operational efficiency</li> <li>Regulatory management</li> <li>Focus on technology</li> </ul>	<ul> <li>Potential to benefit from lower cost of debt thanks to quality of its sponsors</li> <li>Economies of scale</li> <li>Long lasting operational experience with Baskent</li> </ul>
Retail	<ul> <li>Sourcing cost</li> <li>Cost to serve/ retain/ acquire</li> <li>Market share and gross margin</li> </ul>	<ul> <li>Market and customer information</li> <li>Relations with customers and regulatory institution</li> <li>Marketing skills and brand management</li> <li>Product and service development</li> <li>Cost controlling and pricing</li> </ul>	<ul> <li>Well-known trusted brand</li> <li>Large incumbent base (8m)</li> <li>Economies of scale</li> <li>Know-how transfer from Sabanci &amp; E.ON</li> </ul>





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### **Positioned for Growth in Distribution & Retail**







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# Visibility on Mid-term Regulatory Framework











## **Regulatory Framework has Improved Significantly**



**Opportunities for Future Growth** 

Revenue Stream	Growth opportunities
	<ul> <li>RAB as base of regulatory return is increasing from 2.6bnTL* in 2015 to an expected ~4bnTL* (nominal 5.5bnTL) in 2020 contributing ~60-70% of EBITDA</li> </ul>
CAPEX	<ul> <li>Network expansion due to increasing rate of urbanization</li> </ul>
	<ul> <li>Economies of scale to achieve lower procurement costs</li> </ul>
	<ul> <li>Financially strong shareholders – potential for lower cost of debt</li> </ul>
	Room to outperform in controllable expenses through;
	<ul> <li>Centralized organization and economies of scale</li> </ul>
OPEX	<ul> <li>Continuous process improvement</li> </ul>
	<ul> <li>Organizational restructuring</li> </ul>
	<ul> <li>IT infrastructure</li> </ul>
Theft & Loss	<ul> <li>Cost/impact analysis for grid loss</li> </ul>
	<ul> <li>Increasing efforts for reducing theft usage</li> </ul>
	<ul> <li>Incentive-based T&amp;L management</li> </ul>
Other Income	<ul> <li>Consultancy income potential by highly specialized experts</li> </ul>
	<ul> <li>Service differentiation and new products to customers</li> </ul>
	<ul> <li>High potential for advertisement and rental income especially in Ayedaş and Başkent.</li> </ul>
* Eigurog roflagt 2015 DD	





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#### **Liberalized Market more Profitable**



### **Regulation Supports Growth of Liberalized Market**



#### The Liberalization Path

#### **Wholesale Market Liberalization**

- Liberalization on the customer side is expected to be matched on the procurement side with electricity purchases from state-owned wholesale company to decline
- · Liquidity in the market expected to increase



Market openness of

~90% by 2016 in

terms of volumes

Remaining **10%** 

account for **90%** of residential customers to

become eligible in 2017-2018 period

reached

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### **Best Placed to Capitalize on Market Liberalization**







 $\rightarrow$  We understand customer expectations and take actions today in order to meet higher future expectations



**Today's customer expectations** 

Liberalization of the market





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## Balanced Portfolio in an Increasingly Private Market





# **High Efficiency Leads to Cost Competitiveness**



Merit order in Turkish market is characterized by:

- Mandatory purchase contracts with BO & BOT type power plants will expire by 2018-2019 horizon and will lead increase in spot market power prices
- CCGT's still determine majority of hours. Thus, gas prices (driven by oil prices) is major determinant of power prices in medium to long term



### State-owned Capacity Shifting to Private Leads to Higher Prices



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### Major additions completed in 2016 Tufanbeyli lignite plant – lowest cost of generation





COD for full capacity	Q1 2016	
Capacity	450 MW (3 x 150 MW)	
Net efficiency	34.2 %	
Technology	Circulating Fluidized Bed (CFB), HHI Boilers, Siemens Steam Turbine, Siemens Generator	
EBITDA margin	45-55%	
Generation	2,750 GWh per annum	
Coal consumption	6 mln tonnes per annum	
Coal reserve	220 mln tonnes	
Coal calorific value	1200 kcal/kg	
Coal cost		

30

### Major additions completed in 2016 Bandırma gas plant – highest efficiency



\* gas consumption is calculated as 860/efficiency/8250 (calorific value of NG).





#### Major additions completed in 2016 Yamanlı and Dogancay hydro plants



	YAMANLI HEPP	DOGANCAY HEPP
COD for full capacity	Q1 2016	Q3 2016
Туре	RoR(1 <sup>st</sup> stage) & Reservoir (2 <sup>nd</sup> stage)	RoR
Capacity	82 MW	62 MW
Estimated generation	234 GWh per annum	157 GWh per annum
E&M provider	ABB-Yunhe	Orient&ENERDEN
EBITDA margin	70-80% (in feed in tariff)	







#### **Enerjisa Average Achieved Sales Price Performance 2015**





## Profitability is Driven by Feed in Tariff in 2016

- $\rightarrow$  Feed in tariff allows Enerjisa to avoid impact of low spot prices for renewable portfolio now and in the mid-term
- → Full generation capacity as of 2016 offers future growth potential once prices recover





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Higher Visibility with Lower Risk





Significant Improvement in EBITDA





#### EBITDA Development 2015 vs 2014

- Generation & Trading: Higher EBITDA driven by higher renewable generation and benefit of hedges together with feed in tariff offsetting decreasing market prices
- Distribution: Higher EBITDA due to higher financial income mainly driven by increased regulatory asset base and improved T&L outperformance
- Retail: Higher EBITDA due to higher collection performance and higher free market sales contribution

#### **EBITDA Outlook 2016**

- Generation & Trading: Newly commissioned plants and higher renewable volume enjoying FiT
- Distribution: Higher regulated WACC and regulated asset base along with increased distribution ceiling
- Retail: Higher contribution of liberalized market



**Business has Turned Cash Positive** 













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- Turkey is committed to liberalization, providing significant opportunities for Energy sector
- High expectations for distribution and retail market, while generation market requires a more balanced supply and demand situation
- Enerjisa is market leader in Turkey offering diversification across the value chain
- Enerjisa's growth focus is on distribution and retail business as well as renewables
- Financial risk will be reduced via deleveraging (incl. portfolio management)
- Earnings growth expected to continue, supported by increasing cash generation





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EMRA	Energy Market Regulatory Agency
TEIAS	State Transmission Company
TSO	Transmission Service Operator
EPIAS	Energy Market Operator
BIST	Istanbul Stock Exchange
GDP	Gross Domestic Product
BO-BOT-TOR	Build Operate – Build Operate Transfer – Transfer of Operating Rights
WACC	Weighted Average Cost of Capital
PP	Purchasing Power
CCGT	Combined Cycle Gas Turbine
WPP	Wind Power Plant
HEPP	Hydro Electrical Power Plant
CFPP	Coal Fired Power Plant
TPP	Thermal Power Plant
RAB	Regulated Asset Base
RoR	Run of River
T&L	Theft & Loss
IPP	Independent Power Provider
EUAS	State Electricity Generation Company
CoD	Commissioning Date
FIT	Feed in Tariff

