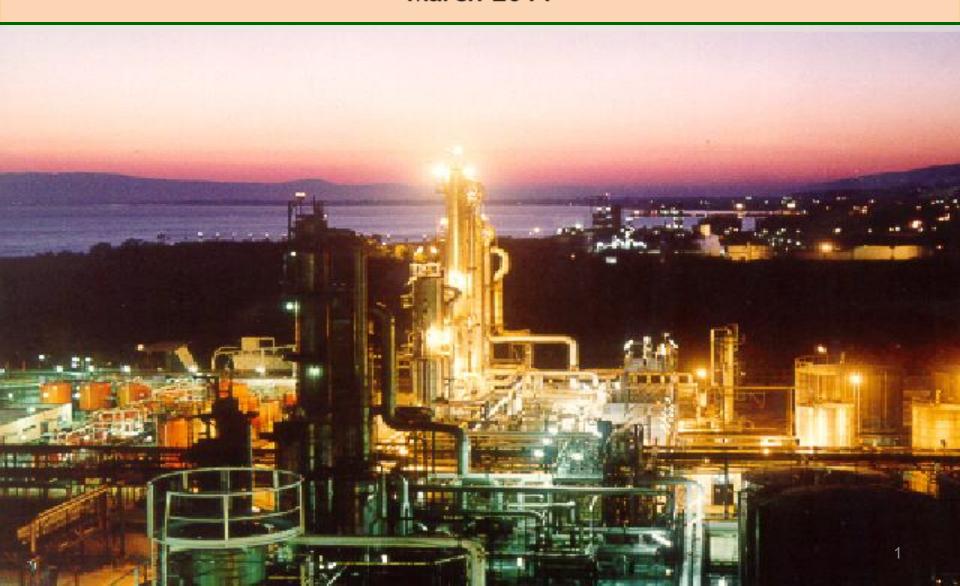


AKSA AKRILIK KIMYA SANAYI



March 2011





AKKOK INDUSTRIAL INVESTMENT & DEVELOPMENT INC.

Akkok Group Companies

CHEMICALS

AKSA, AK-KİM

ENERGY

AKENERJİ, SEDAŞ

TEXTILES

AK-AL, AK-TOPS, AKSA EGYPT

REAL ESTATE DEVELOPMENT

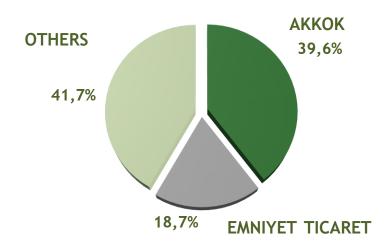
AKMERKEZ, AK TURİZM, AKİŞ

OTHER SERVICES

AK-PA, DİNKAL, AKPORT, AKTEK,
AKMERKEZ LOKANTACILIK (Paper Moon)



AKKOK (Million US\$)	2006	2007	2008	2009	2010
Net Sales	1,314	1,337	1,514	2,166	2,400
Export	342	346	326	332	372







STRATEGIC BUSINESS UNITS of AKSA ACRYLIC



STANDARD ACRYLIC FIBER BUSINESS UNIT

- Largest acrylic fiber producer under one single roof in the world;
- 13.2% global market share;
- Turkey's sole local producer having 66% local market share.



TECHNICAL FIBERS BUSINESS UNIT

- High value-added products / Develop fibers for technical end-use areas;
- Targeting increase the share in total sales from 7% to 10% by 2015;
- Planned investment for 2011-2015; 20-25 Million US\$.



CARBON FIBER BUSINESS UNIT

- Publicly announced 72 Million US\$ CF investments to increase capacity from 1,500 tonnes today to 3,500 tonnes by July 2012,
- Targeting industrial applications such as wind turbines, automative, pressurised vessels, construction;
- Strategic goal; 5% market share by 2015 & 10% by 2020.



ENERGY BUSINESS UNIT

- Acquired 70 Mwe capacity Natural Gas power plant from Akenerji;
- Currently investing in 100 Mwe capacity dual gas power generation plant;
- Commissioning of the plant will be by June 2011.





ACRYLIC FIBER BUSINESS UNIT





WHAT IS ACRYLIC FIBER?

Acrylic fibre is a synthetic fibre that highly resembles wool,



Wool (natural fiber)



Acrylic Fiber (synthetic fiber)

- Used in blends with natural and other synthetic fibers or by themselves,
- Easily washed and keep dimensional stability/resistant against sunlight & chemical substances,
- Dyed in brilliant colours,
- Natural and warm appearance and touch.





HAVING 42 YEARS OF EXPERIENCE IN ACRYLIC FIBER INDUSTRY...

- Leader in Turkey and in international markets in terms of capacity, size, pre-and post-service quality, product diversity & flexibility;
- Low cost leader;
- Production capacity: 308,000 ton/year;
- Capacity Utilization Rate: 85% in 2009, 86% in 2010.

SUCCESS THAT COMES FROM A DIVERSITY OF PRODUCTS...



Major Acrylic Fiber Uses;

Apparel

Home Textiles & Furnishings

Industrial Uses







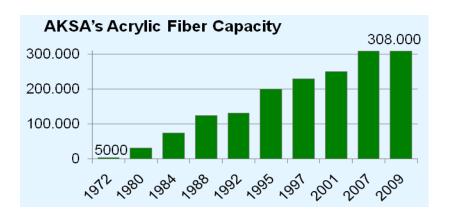
AKSA's Development Over 40 Years



AKSA 1971 Initial Capacity 5,000tpa



AKSA Today Capacity 308,000tpa



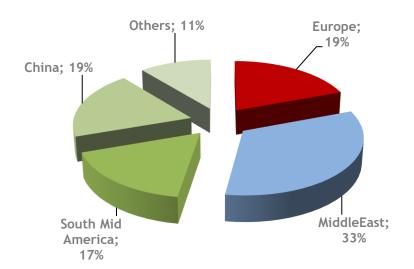
By the end of 2007, capacity reached 308,000 tonnes/year.



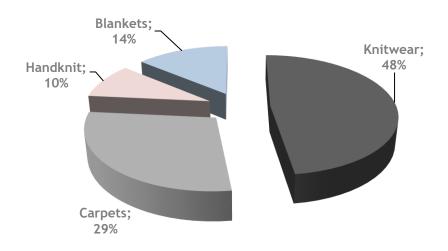


2010 / SALES BREAKDOWN

EXPORT SALES BREAKDOWN



DOMESTIC SALES BREAKDOWN



In Europe, the technical acrylic fiber market has strengthened compared to standard acrylic fiber market. Share of sales volume of technical & special fibers to the region has increased from 10% to 18% by 2010.

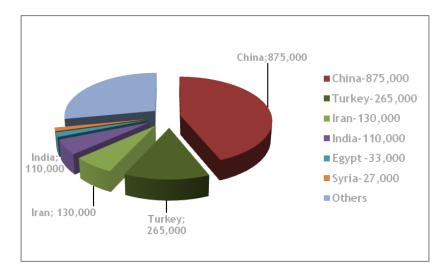




ACRYLIC FIBER SECTOR IN BRIEF



- Acrylic fiber market accounts for 2 million tonnes in 2010,
- Biggest Consumption Markets





- China adopts self sufficiency strategy/invests on new capacity no more, During 2007-2010 China market shrank by 20%.
- Sector has 20% idle capacity,
 Europe accounts for excess capacity,
 Far East balanced capacity and demand,
 Shut downs (Europe, USA, Far East...) and consolidations have taken place
 for last 10 years.





ACRYLIC FIBER INDUSTRY PLAYERS

- AKSA
- MONTEFIBRE (SPAIN)
- DRALON (GERMANY)
- FISIPE (PORTUGAL)
- BIRLA (THAILAND & EGYPT)
- JILIN (CHINA)
- SHANGHAI PETROCHEMICALS (CHINA)

- Jilin and MonteFibre founded JiMont by forming an alliance, Jilin Qifeng and Jimont, 2 factories, have a cumulative production capacity of 240,000 tonnes,
- In 2009, MonteFibre shut down the last facility in Italy, They only produce 95,000 tonnes in Spain,
- Dralon has production capacity of 187,000 tonnes/year,
- Birla increased production capacity at Egypt, from 18,000 tonnes to 38,000 tonnes in 2010, Facility at Thailand (Thai Acrylic Fibre) has 100,000 tonnes of capacity,
- Although Jilin and SPC (China) are big firms, they are not direct competitors to AKSA.





THREAT OF SUBSTITUTES

GLOBAL PRODUCTION OF TEXTILE FIBERS (1000 TONNES)											
	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	AGR
Synthetic Fibers	32,101	31,686	33,907	35,511	37,953	38,165	41,277	44,523	42,640	44,600	3,70%
Polyester	19,073	19,244	20,956	22,258	24,406	24,701	27,808	31,094	30,650	32,400	6,10%
PP fibers	5,984	5,815	5,913	6,159	6,303	6,463	6,473	6,444	5,940	6,100	0,20%
Polyamide	4,063	3,745	3,947	3,992	4,017	3,865	3,883	3,895	3,510	3,480	-1,70%
Acrylics	2,669	2,555	2,742	2,678	2,743	2,632	2,535	2,446	1,930	2,020	-3,00%
Others	312	327	349	424	484	504	578	644	610	600	7,50%
Natural Fibers	28,448	27,600	28,931	28,620	30,603	33,192	34,595	35,900	33,395	30,900	0,90%
Cellulosics	2,755	2,692	2,715	2,855	3,096	3,138	3,296	3,592	3,235	2,950	0,80%
Cotton	19,749	19,814	20,623	20,120	21,974	24,398	25,707	26,704	24,450	22,300	1,40%
Wool	1,250	1,180	1,357	1,274	1,219	1,231	1,227	1,218	1,210	1,190	-0,50%
Others	4,694	3,914	4,236	4,371	4,314	4,425	4,365	4,386	4,500	4,460	-0,60%
TOTAL	60,549	59,286	62,838	64,131	68,556	71,357	75,872	80,423	76,035	75,500	2,50%
acrylic share / total textile fibers	4,40%	4,30%	4,40%	4,20%	4,00%	3,70%	3,30%	3,00%	2,50%	2,70%	
acrylic share / total synthetic fibers	8,30%	8,10%	8,10%	7,50%	7,20%	6,90%	6,10%	5,50%	4,50%	4,50%	

Substitutes compete with price differentiation, Preference of acrylic fiber is sustained until price difference is 0,50-0,70 US\$/kg. During 2000-2009, while the annual growth rate of acrylic fibermarket is -3%, Aksa's annual production growth rate is 2.3%.



Assuming that the world population will continue to rise, it is estimated that natural fiber production increases will be limited and there will be above-average, pa 5.9% growth in synthetic fiber demand over 10 years. The global demand for acrylic fiber in 2020 is expected to be around the same level as 2 million tonnes.



COST STRUCTURE OF ACRLYIC FIBER

The key cost component is the raw material Acrylonitrile

- Acrlyonitrile prices fluctuates depending on the oil prices and the demand supply balance;
- 30% of ACN locally sourced from PETKIM, The rest is heavily imported from Europe .

The other important cost component is "The Energy",

• Continously improving energy specific consumption through investments;

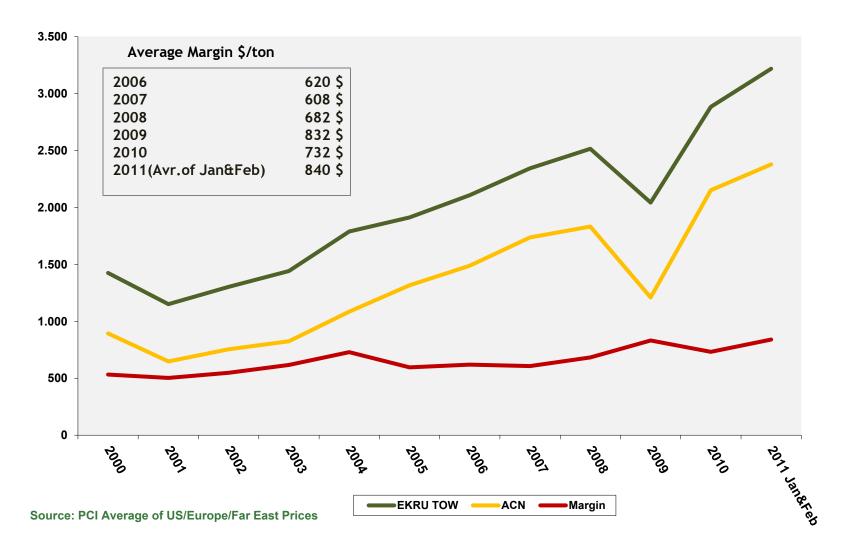
Labor Costs

- High rate of production per capita;
- Low labor rate compared to European competitors.





ECRU TOW - ACN PRICE MARGIN (US\$/ton)







CARBON FIBER BUSINESS UNIT

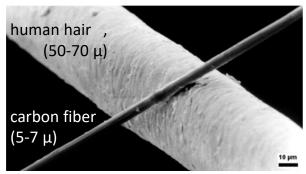




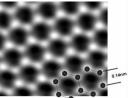


WHAT IS CARBON FIBER?



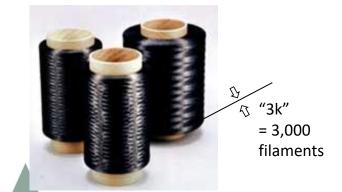


a carbon fiber and a human hair (source: wikipedia)



graphene sheet (source: wikipedia)

AKKÖK

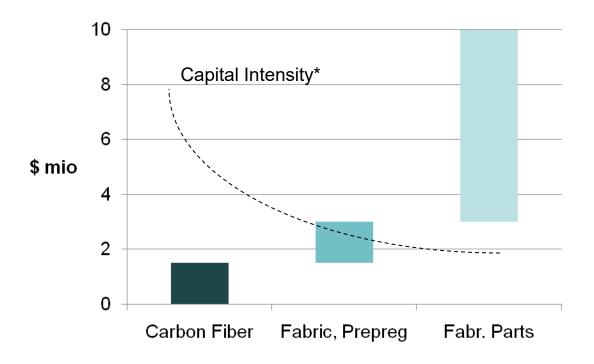


- Carbon fibers are extremely fine fibers (typ, 5- 7μ in dia,) consisting mostly of carbon atoms,
- Carbon fiber is >95% carbon,
- The structure of carbon fiber is similar to graphite: sheets of carbon atoms, arranged in hexagonal patterns, aligned along the axis of the fiber,
- Carbon fibers are produced in tows (yarns) ranging from 1,000 filaments (1k), to 3k, 6k, 12k, 24k, 50k, etc.



CARBON FIBER, COMPOSITE MATERIALS & COMPOSITES IS A \$10 BILLION INDUSTRY





Facilities Required: Precursor Facility Carbonization Facility

Facilities Required: Weavers/Looms, Prepreg Lines Facilities Required: Fabric Layup Curing Equipment





USES / CURRENT MARKET FOR CARBON FIBER



Current Demand for Carbon Fiber < 40.000mt p.a.; > US\$1B



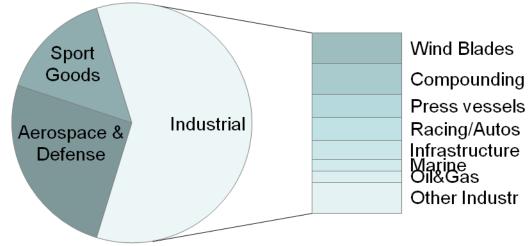




Image of the new Airbus A350

The entire wing structure will be made out of carbon fiber

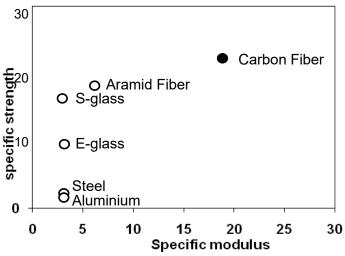
AKSA is targeting Industrial Applications



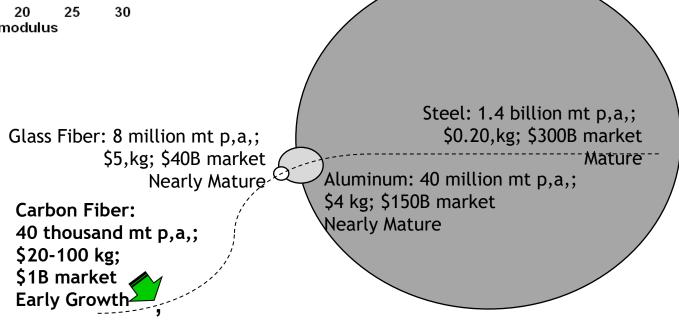


THE CARBON FIBRE MARKET IS EARLY IN ITS DEVELOPMENT COMPARED TO OTHER STRUCTURED MATERIALS





- Carbon Fiber is a structural reinforcement with high specific strength and stiffness,
- · High specific tensile strength
- · High specifif elastic modulus
- · Light in weight &strong





Introduction

Growth

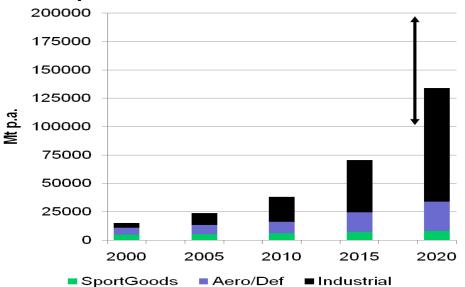
Mature...



EXPECTED GROWTH IN DEMAND FOR CARBON FIBER







Carbon fibre demand was around 20,000 tonnes in 2004, The demand than doubled in the four years to 2008, We expect the market (currently 40,000 tonnes) to double by 2015 and double again by 2020.

<u>Industrial Applications</u> are expected to make up the majority of future demand.

mt	2010	2015	2020
Market for Carbon Fiber	40,000	75,000	140,000



Industrial Apps 2010 vs 2020:

Wind:

 $5,000t \rightarrow 15,000-50,000t$

Compounding:

 $5,000t \rightarrow 15,000-50,000t$

Pressure Vessels:

 $3,000t \rightarrow 15,000-50,000t$

Autos:

 $2,500t \rightarrow 20,000-100,000t$

Infrastructure:

 $2,000t \rightarrow 5,000-25,000t$

Others:

 $5,000t \rightarrow 15,000-50,000t$

Aerospace Apps

2010 vs 2020:

 $8,000t \rightarrow 25,000-30,000t$

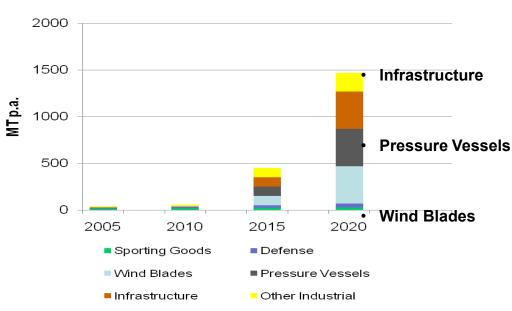
Sports Goods 2010 vs 2020:

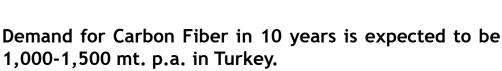
 $7,000t \rightarrow 10,000-15,000t$



EXPECTED GROWTH IN DEMAND FOR CARBON FIBER IN TURKEY







Aksa's target is to support the increased use of carbon fiber based composites in Turkey. Considering the very undersized local market for carbon fibre of only around 50-70 tonnes/year, Aksa is in touch with the government to create a "Composite Valley" near Yalova.



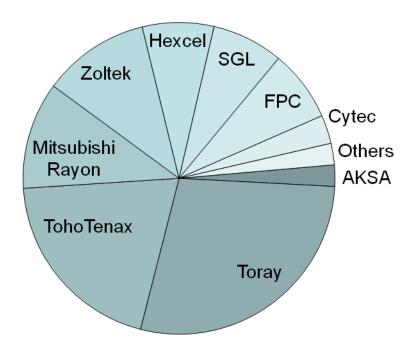




THE "UN-MET NEED" FOR CARBON FIBER



Carbon Fiber Capacity



AKSA's observations on the carbon fiber market:

- Carbon fiber has been available commercially since the 1970's,
- Demand has grown irregularly depending on new applications,
- Tight supply conditions have occurred every few years,
- There appears to be an "un-met need" for carbon fiber that is:
 - High quality
 - Reliably supplied
 - Competitively priced

for Industrial Applications.



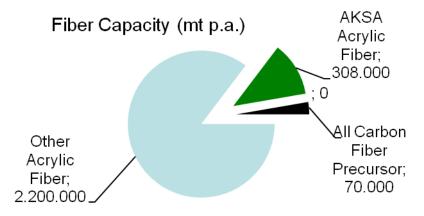


AKSA'S POTENTIAL STRENGTH IN CARBON FIBER



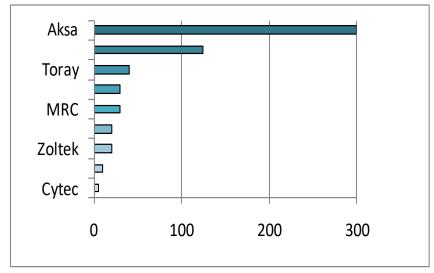


Having the world's largest capacity for acrylic fiber production under a single roof, AKSA's infrastructure is unmatched by any carbon fiber producer.



AKSA is uniquely positioned to offer high quality, reliably supplied, competitively priced carbon fiber.

Acrylic Fiber and Precursor Capacity of Carbon Fiber Producers (000mt)







AKSA IN CARBON FIBER



- Production capacity; 1,500 tpa,
- Publicly announced 72 Million US\$ CF investments to increase capacity from 1,500 tonnes today to 3,500 tonnes by July 2012, (both increasing the capacity of current line by 300 tpa and construction of new line with 1,700 tpa)
- Capital Intensive Initial capital cost of a precursor and carbon fiber production facility is very high, depreciation is significant,
- Half of cost is linked to the price of oil Acrylonitrile and the energy to convert and process it into carbon fiber,
- AKSA's Advantages in Yalova;
 - > Well facilitized and operated acrylic fiber factory,
 - > Large scale facility,
 - > Technically oriented workforce,
 - > Low cost labor.





AKSA'S TARGET IN CARBON FIBER



- Entered the carbon fiber market with "standard grade" small-tow products;
- Targeting industrial applications where high quality, reliably supplied; competitively priced carbon fiber is wanted;
- Intending to further develop our portfolio of products over time;
- Support the increased use of carbon fiber based composites in Turkey;
- Aiming to achieve a strong position in carbon fiber as in acrylic fiber.



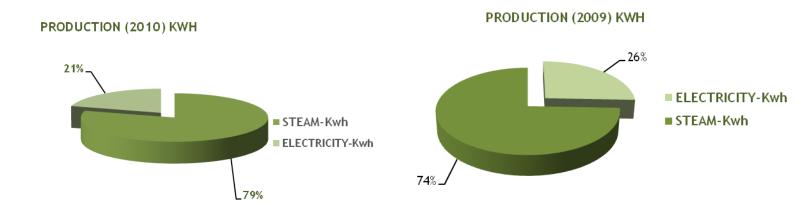


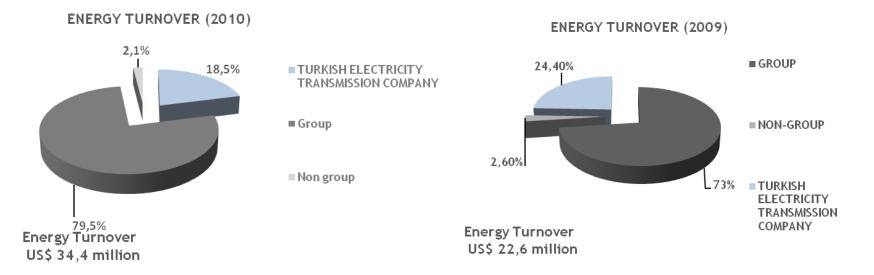
ENERGY BUSINESS UNIT





ENERGY PRODUCTION & TURNOVER









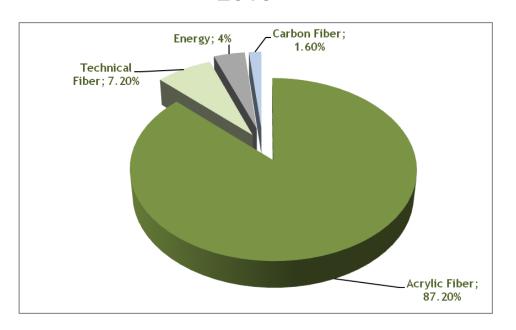
LONG-TERM MAIN STRATEGIC GOALS (2015)

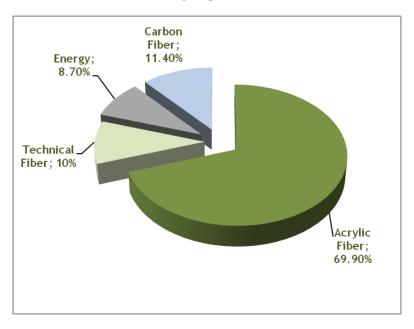
- Generate at least US\$1.1 billion sustainable revenue in its Strategic Business Areas,
- Achieve at least 15% EBITDA margin,
- Maintain capacity utilization in Acrylic Fiber Business and low-cost leadership through cost saving projects,
- Target 5% market share in Carbon Fiber in 5 years and 10% market share in 10 years,
- Generate US\$120-130 million turnover in Carbon Fiber Business Area in 5 years,
- Achieve at least 30-35% EBITDA margin in Carbon Fiber Business Area,
- Develop a downstream industry in Turkey for Carbon Fiber,
- Develop new technical fibers to create added value and end-use areas except textile industry.





BREAKDOWN OF SALES WRT. BUSINESS UNITS









2011 BUDGET FIGURES

Net Sales US\$ 930-960 Million

AF US\$ 790-805

Technical Fibers US\$ 60-65

CF US\$ 25-28

Energy US\$ 55-62

Exports US\$ 350-375 Million

AF CUR 85%

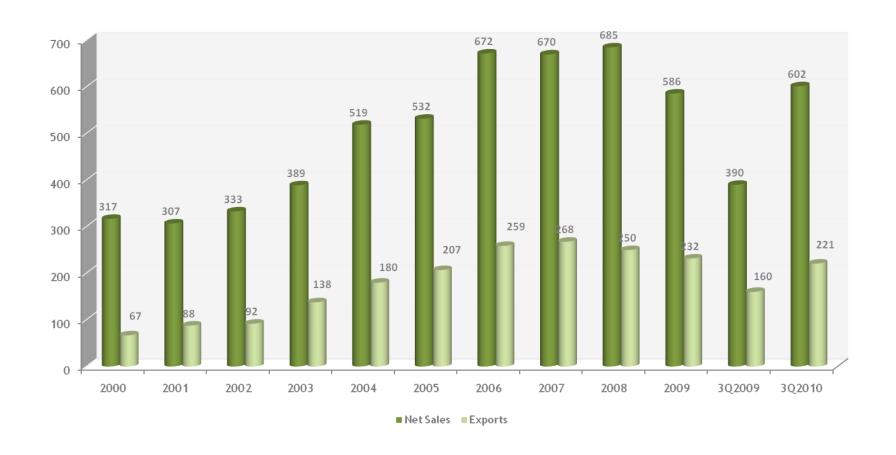
EBITDA margin 10%-11%

CAPEX US\$160-170 Million





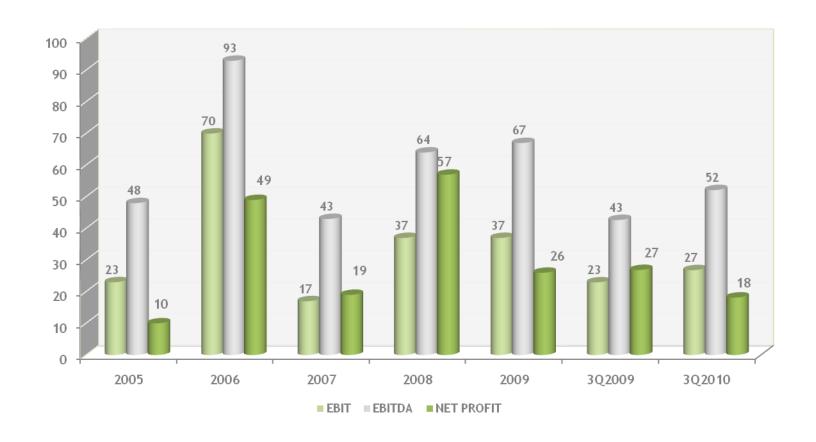
NET SALES & EXPORT (FOB) (US\$ million)







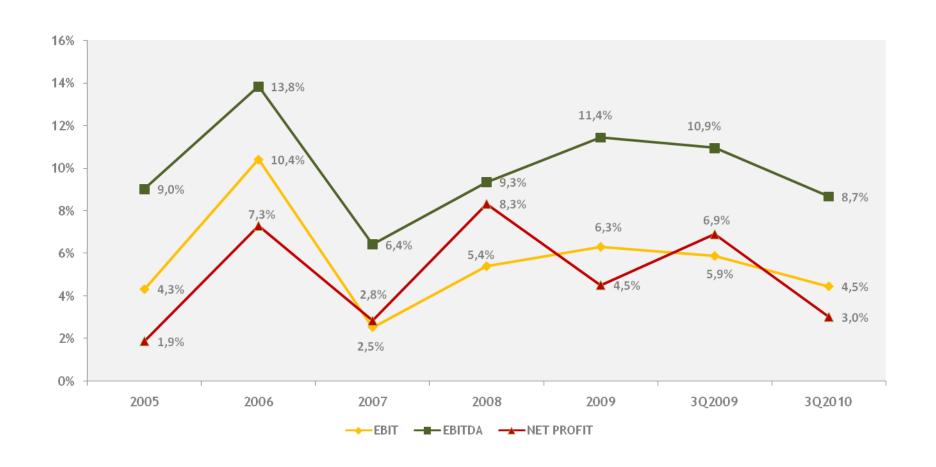
EBIT - EBITDA - NET PROFIT (US\$ million)







EBIT -EBITDA - NET PROFIT (%)



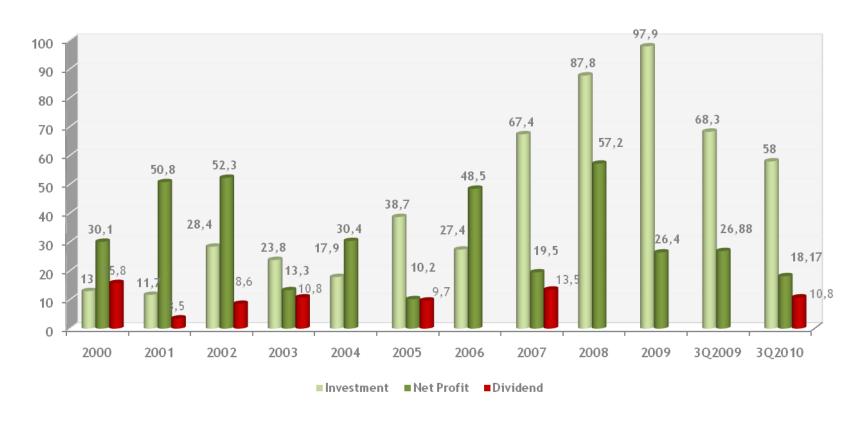




INVESTMENT-PROFIT-DIVIDEND

2000-2010/09:

- Total Investment : US\$ 472,00 million
- Total Net Profit
 US\$ 356,87 million
- Total Dividend : US\$ 72,70 million







INCOME STATEMENT

Income Statement ('000 US\$)	2007	2008	2009	3Q 2009	3Q 2010
Net Sales	669,507	684,848	585,856	390,167	601,649
EBITDA	43,286	63,610	67,172	42,675	52,129
EBIT	16,555	36,779	37,291	22,953	26,821
Profit Before Tax	18,897	69,663	32,964	25,992	21,636
Profit After Tax	19,458	57,237	26,413	13,288	18,167





BALANCE SHEET

Balance Sheet ('000 US\$)		2007	2008	2009	3Q 2009	3Q 2010
ASSETS		748,070	723,569	808,967	786,016	841,214
Current Assets		423,002	383,400	390,652	384,132	389,139
	Liquid Assets	42,097	39,846	64,003	44,470	37,388
	Receivables	235,966	251,121	218,251	228,181	208,641
	Inventories	114,514	63,738	73,592	76,636	91,936
	Other	30,425	28,696	34,806	34,845	51,173
Long Term Assets		325,067	340,169	418,316	401,884	418,315
	Long Term Trade Receivables	8	8,375	7,792	9,392	4,641
	Financial Assets	23,335	17,945	18,024	18,312	18,700
	Tangible Assets	301,437	290,452	353,942	342,155	403,987
	Intangible Assets	286	128	4,435	4,164	3,830
	Other Long Term Assets	1	23,269	34,123	27,861	20,914
LIABILITIES		748,070	723,569	808,967	786,016	841,214
Current Liabilities		170,915	165,350	209,146	186,812	204,157
	Financial Liabilities	56,151	66,719	87,856	74,192	61,691
	Trade Payables	104,651	75,029	109,854	99,829	132,183
	Other Short Term Liabilities	10,114	23,601	11,436	12,791	10,282
Long Term Liabilities		41,098	96,442	121,144	118,846	133,797
	Financial Liabilities	18,589	80,070	91,253	92,950	105,180
	Trade Payables	0	0	1,697	0	C
	Derivative Financial Instruments	0	0	2,515	3,136	3,989
	Provisions for Debt and Expenses	8,733	4,923	6,306	4,961	6,604
	Deferred Tax Liabilities	13,775	11,449	9,478	8,458	8,406
	Other Long Term Liabilities	0	0	9,895	9,340	9,617
Shareholders' Equity		536,057	461,778	478,627	480,358	503,260







THANK YOU

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