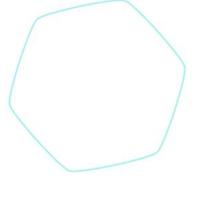


30 JUNE 2022





# **Agenda**

- 1. Company Overview
- 2. Financial Overview
- 3. Q&A
- 4. Annexes

# **Presenters**



Osman Nuri Vardı

VICE CHAIRMAN OF THE BOARD OF DIRECTORS &
CEO

20 years of work experience

- 2017 Biotrend Energy, Founder and Vice Chairman of the Board of Directors
- 2011 Karya Power Systems Energy & Engineering, Founder
- 2003-2011 Government Several roles
- 2001-2003 Böhler Control Engineering
- 2000-2001 Doğu Akdeniz University -Academician

Doğu Akdeniz University, Electrical and Electronic Engineering



Zeliha Akgün

DOĞANLAR HOLDING CFO

16 years of work experience

- 2020-2021 Madame Coco, Deputy General Manager
- 2018-2019 Koton, Director of Financial Planning
- 2012-2018 Nivea, Director of Finance
- 2011-2012 Beymen, Budget Reporting Manager
- 2010-2011 Soyak Energy, Budget Reporting Specialist
- 2006-2010 PwC, Auditor

İstanbul University, Business Administration – English



Gözde Çivici

DOĞANLAR HOLDING
INVESTOR RELATIONS DIRECTOR

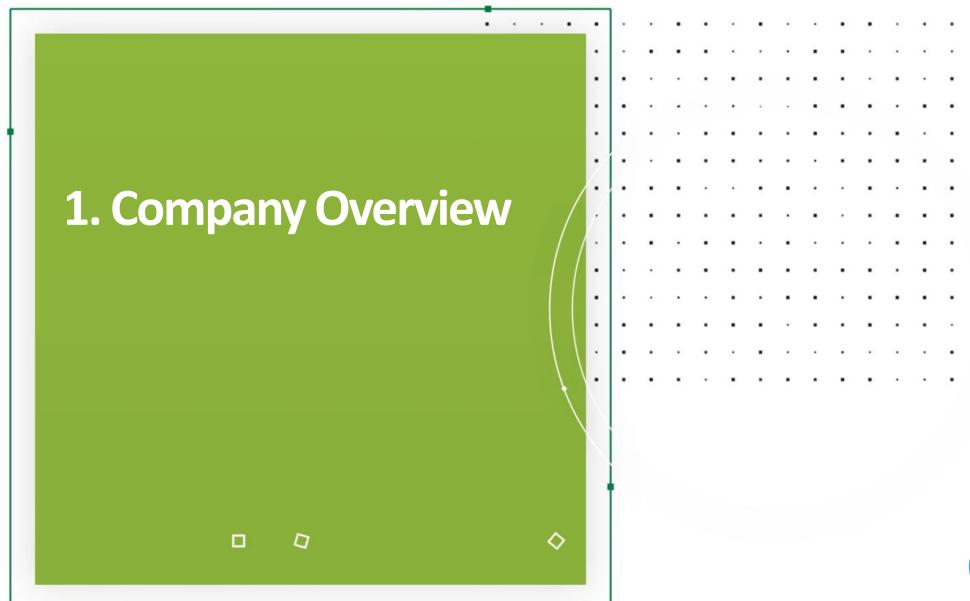
16 years of work experience

- 2020-2021 TSKB Corporate Finance Senior Manager
- 2017-2020 Akbank Project Finance Manager
- 2011-2017 Ak Yatırım –Corporate Finance Manager
- 2010-2011 KPMG –Financial Consultancy Senior Associate
- 2007-2010 İş Yatırım- Corporate Finance Associate
- 2006-2007 American Express, Washington DC –Analyst

Boğaziçi University, M.A. İn Economics and Finance Emory University, B.A. İn Economics











## 2021 & 2022 in Brief...



Ordinary General Assembly for 2021 (April 2022)

Reached 96.4 MW Installed Capacity (30/06: 92.2 MW) in July with capacity increases in İnegöl Biogas and Bergama Landfill Gas Facilities!



### **Sustainability:**

- **Establishment of Sustainability Office**
- Carbon Certification (Verra VCS & GCC & ICR)
- Signing of the UN Global Compact
- **UN Global Compact Climate Ambition Accelerator Program**
- Carbon Disclosure Project (CDP) First Time Participation
- Social Responsibility Projects & Awards (EBRD Sustainability Award)

100% Owner of our Subsidiary Biyomek (June 2022)

Change in Top Management (August 2022)



- Initial Public Offering of "BIOEN" & Listing in Borsa Istanbul (April 2021)
- EBRD Partnership (September 2021)
  - Inclusion in Borsa Istanbul Participation Index! (November 2021)











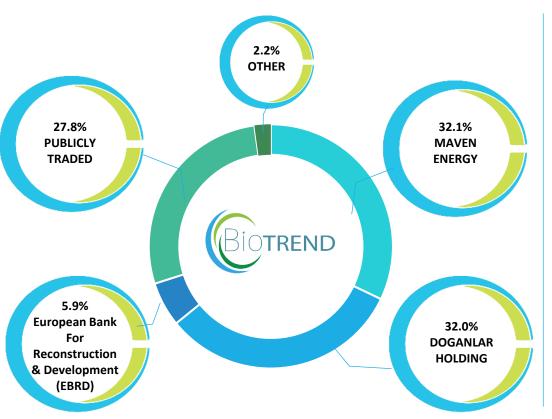




**Company Overview** 

# **Shareholding Structure**

# BIOTREND (BIOEN) SHAREHOLDING STRUCTURE



### ABOUT DOĞANLAR HOLDİNG A.Ş.

Apart from its activities in the field of energy, DOĞANLAR HOLDİNG also has investments in furniture, construction and retail.



Source: KAP





## Biotrend in 2022 H1 at a Glance



Of all the domestic waste directed to landfills in Turkey, approximately

20%

is turned into energy and heat at a Biotrend plant, for a sustainable future.

**Company Overview** 



18 plants\* in 11 provinces



2022 H1 1.7 mllion tons of waste disposal (2021: 3.5 million tons)



2022 H1: 281 million KW gross, 263 million KW net Power Generation (2021 H1: 186 million KW gross, 176 milyon KW net power generation)





(2022 Q2: 92.2 MWe, 2021 YE: 87.6 MWe)

✓ Average remaining YEKDEM term: 7.4 years



✓ 2022 H1: 2.7 million tons of CO² emission reduction (2021: 3.15 million tons)



√ 2022 HI: Meeting the energy needs of 200,000 households (2021: 300,000)



✓ TRY 521.7 million Revenue (2022 H1)✓ TRY 176.1 million EBITDA (2022 H1)

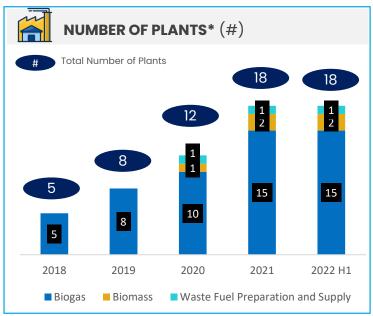


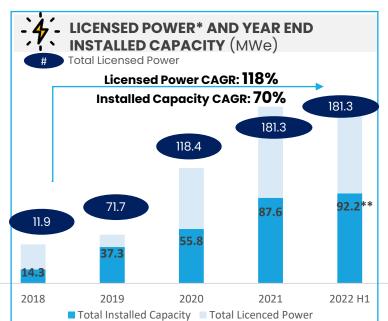
<sup>\*/\*\*</sup>Including pre-licensed plants. 16 plants are active and 2 plants are at the investment stage. \*\* Including 2.4 MWe unlicensed power plants Sources: Independent Audit Report, Company Management, EMRA, TEÍAŞ, TSKB Energy Bulletin December 2021



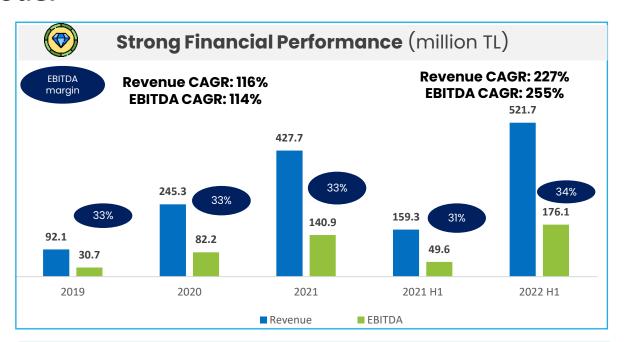
#### **Company Overview**

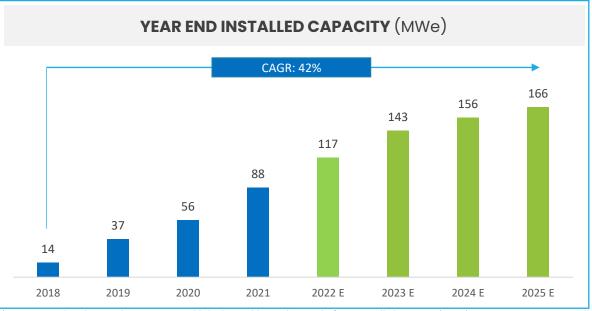
## **Growth-Oriented Business Model**











\*2022 Forward Looking Evaluations were published on Public Disclosure Platform: Installed Capacity (MWe): ~120MWe, Average Installed Capacity (MWe): ~90MWe



# **Biotrend Plants**

Facilities by Field of Activities						Power Generation			Other Activities								
Total 2022/H1 July 2022			2022E	Biogas				Waste			Carbon	Waste Fuel Preparatio	Steam Sales	<b>Operational</b>			
SPV Name/ Facility Name		Power	Installed Capacity (MWe)	Installed Capacity (MWe)	Installed Capacity (MWe)	Landfill Gas	Bio- metanizatio n	Biomas s	Waste Disposal	Seperatio n	RDF	Compos t	Sertificate s	n & Supply	& Greenhouse Farming	Planned	
1	Doğu Star	Malatya-1 Landfill Gas (Orduzu)	2,400	2,400	2,400	2,400		✓		✓	✓	✓	✓				Unlicensed Pre-License was obtained, and the licensing process is ongoing.
2	Doğu Star	Malatya Unlicensed (Malatya Municipality Landfill Site Landfill Gas) (Orduzu)		2,400*	2,400*	2,400*	✓										Fre-Encense was obtained, and the incensing process is ongoing.
3	Nov Enerji	Sivas Landfill Gas	2,826	2,826	2,826	2,826	✓			✓	✓						
4	Novtek Enerji	İnegöl Landfill Gas	2,400	2,400	2,400	2,400	✓										
5	Novtek Enerji	İskenderun Landfill Gas	4,239	4,239	4,239	4,239	✓										
6	İzmir Novtek	İzmir Harmandalı Landfill Gas (İzmir Landfill Gas)	39,690	32,340	32,340	32,340	✓			✓	<b>✓</b>	<b>~</b>	<b>✓</b>	<b>✓</b>			
7	İlda (Landfill)	Balıkesir Landfill Gas	14,140	11,312	11,312	11,312	✓			✓	✓	>	✓	✓			
8	Uşak Yenilenebilir	Uşak Landfill Gas (Uşak Biogas)	5,498	4,084	4,084	4,084	✓	✓		✓	✓	>		<b>✓</b>			
9	Doğu Star	İnegöl-2 Biogas	14,140	4,242	7,070	7,070		✓		✓	✓	✓		✓			
10	İzmir Doğu Star	İzmir Bergama Landfill Gas	9,898	5,656	7,070	7,070	✓	✓		✓	✓	✓	✓	✓			
11	Biyomek Elektrik	Çine Biomass	13,600	13,600	13,600	13,600			✓							✓	
12	Ulubey	Çine Fuel Preparation	-	-	-	-									✓		
13	Yılbatu	Menderes Biogas (İzmir Biogas)	**24,038	-	-	-	✓	✓		✓	✓	✓	✓	✓			
14	Doğu Star	Malatya-2 Landfill Gas (Kapıkaya)	4,242	2,828	2,828	2,828	✓			✓				✓			
15	MD Biyokütle	Aksaray Landfill Gas	5,656	1,414	1,414	2,828	✓			✓	✓		✓	✓			
16	Mersin	Ezine Biomass	30,000	1,000	1,000	17,800			✓							✓	
17	Serenti	Giresun Landfill Gas	4,242	1,414	1,414	2,828	✓			✓	✓		✓	✓			
18	Ayvacık	Ayvacık Landfill Gas	**4,242		-	1,414	✓			✓	✓		✓	✓			CALPACTOR STATES AND A STATE OF THE STATES AND A STATE OF THE STATES AND A STATE OF THE STATES AND A STATE OF THE STATES AND A STATE OF THE STATES AND A STATE OF THE STATES AND A STATE OF THE STATES AND A STATE OF THE STATES AND A STATE OF THE STATES AND A STATE OF THE STATES AND A STATE OF THE STATES AND A STATE OF THE STATES AND A STATES A
	Maven Tarım	Sivas Greenhouse	-		-											✓	A STATE OF THE STA
	Total Licenced Po	ower	181.251	92.155	96.397	117.439											<b>27年2月1日 11年2月1日 11日</b>

## **Plant Details**



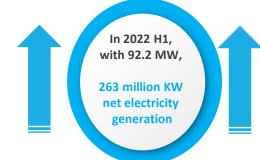
**Company Overview** 

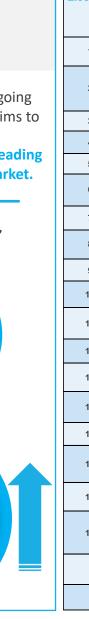


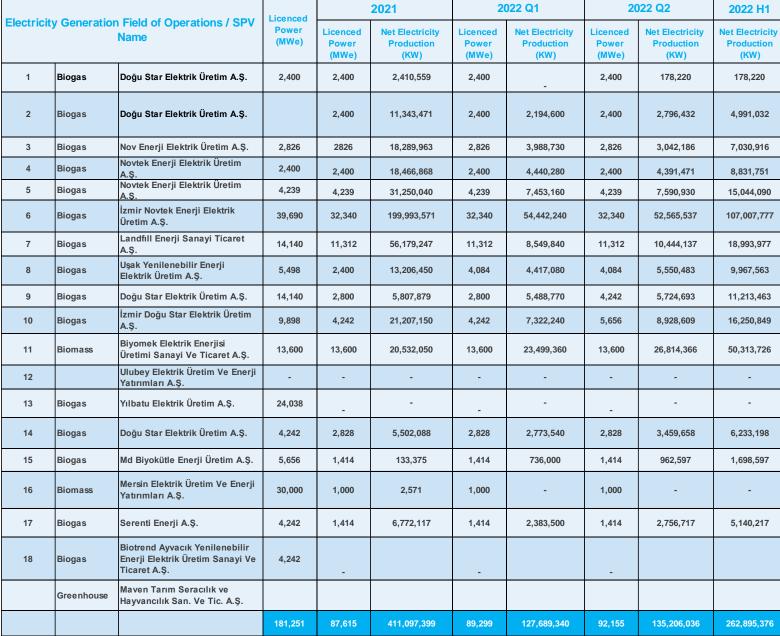
With the completion of ongoing investments, the company aims to continue its rapid growth and strengthen its leading position in the biomass market.

With ongoing investments,

In 2021, with 87.6 MW, 411 million KW of net electricity was generated.









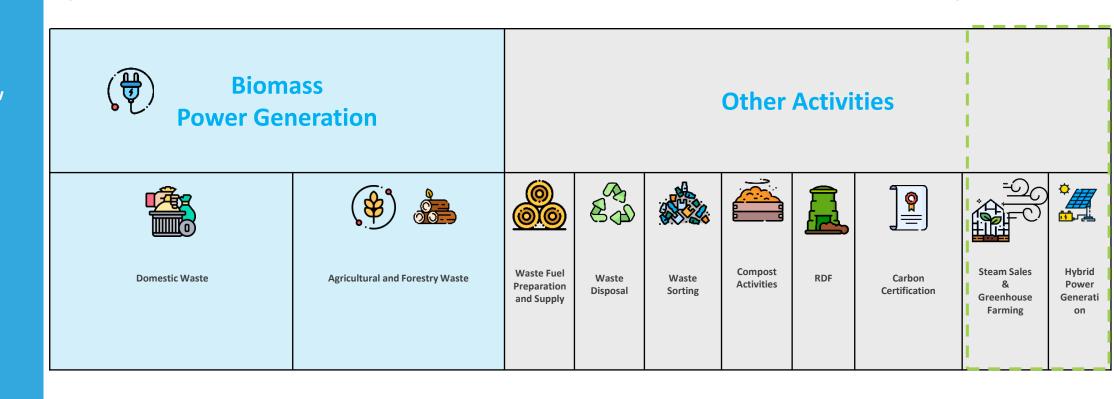


# **Our Fields of Activity**

**Current Operations** 

Planned Operations

**Company Overview** 







#### **Company Overview**

## **Organic and Inorganic Domestic Growth**



Ensuring maximum use of available licensed power generation capacity



Growing recycling revenues (with planned separation and RDF facilities)



Providing engineering and consultancy services



↑ Inorganic growth with M&A opportunities



Due to the changing environmental legislation and the new YEKDEM feed-in tariff consolidation is expected in the sector.





**TREND** 

#### **International Expansion**



Growing in markets where Doğanlar Holding is currently operating

(Balkans, Central Asia, Mediterranean Basin, North Africa and Sub-Saharan Africa)

- 4 - Seizing opportunities in waste management and waste-to-heat generation

### **Green Bond / Strategic Alliances**



Issuing a tematic sustainable/green bond/sukuk



Seizing opportunities with strategic global partnerships





Current **Operations** 





**Waste Disposal** 



Seperation

activities



**RDF Production** 



Compost



Carbon









Greenhouse Cultivation



**Steam Sales** 



Producing polymer from







# **Sustainability Management**

UN Global Compact - Climate Ambition Accelerator Program



**Company Overview** 



Carbon Certification
Projects &
Sustainability Projects

(eg: Plastic Recycling)





Establishment of Sustainability
Office





"Violence Awareness Education for Women Project"
"EBRD Sustainable Energy Bronze Award", "Happy
Place to Work Award", "Women Friendly Brands
Awareness Award"









**Climate Ambition** 

# Sustainability – UN Global Compact - Climate Ambition Accelerator

Program: 2022-2023



# **Working towards**

European Union's 2050 carbon neutral target Turkey's 2053 net zero target

Only waste to energy company among 27 participants, first in Turkey





PREPARE YOUR BUSINESS FOR THE NET ZERO TRANSITION

#ClimateAmbition









# **Carbon Certification Projects Overview**

**Carbon Credits** 

3 different certification programs covering all our operations

**VCS GCC ICR** 



Total carbon credits for previous years our reserve

5 million ton reserves



Yearly estimated certified emission reduction credits

~2 million tons



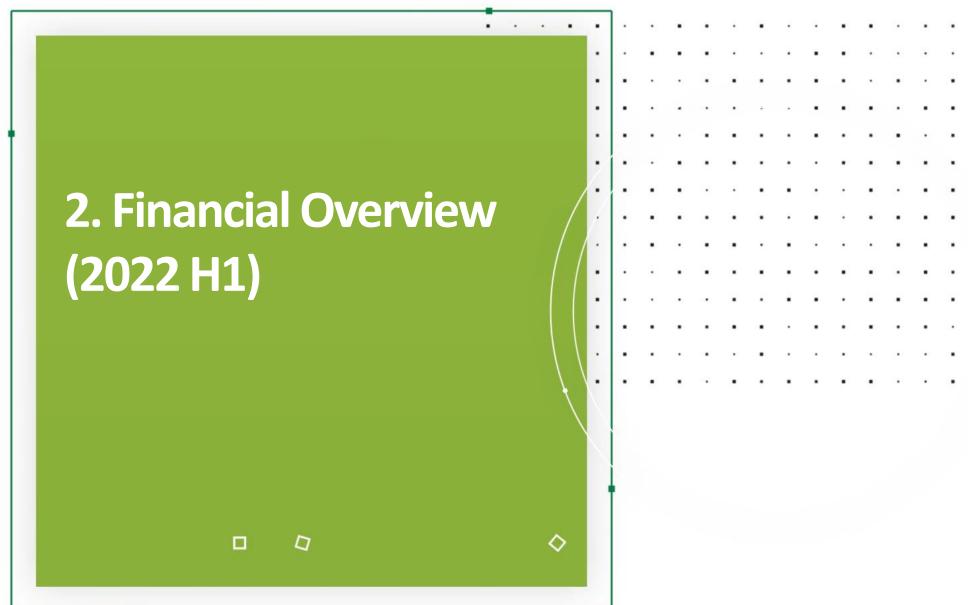














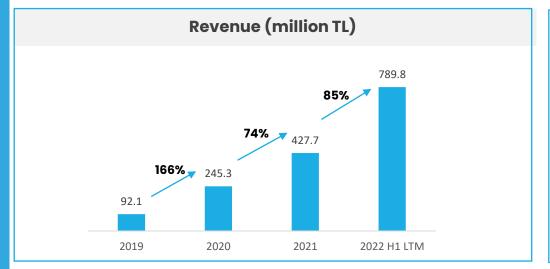


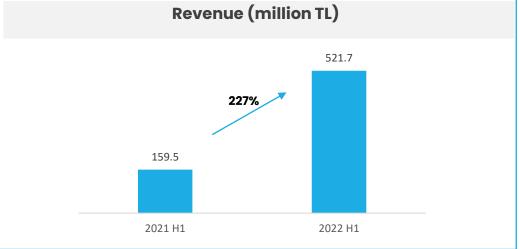
## Revenue

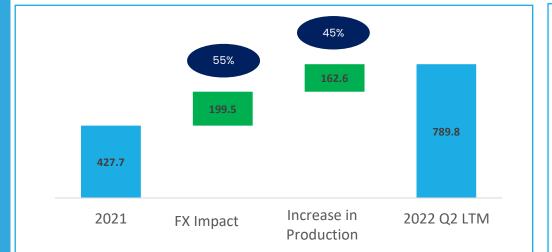
Installed Capacity increased to 92.2 MWe (2022 Q2).

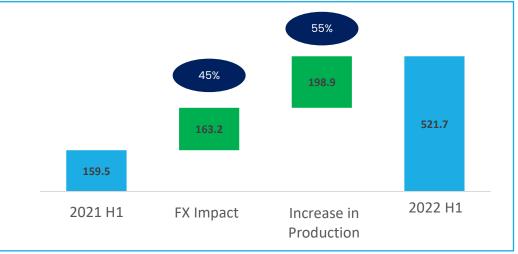


**Finansal Veriler** 





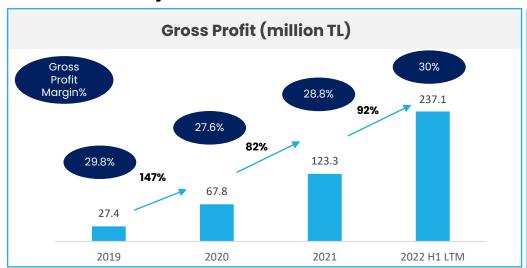


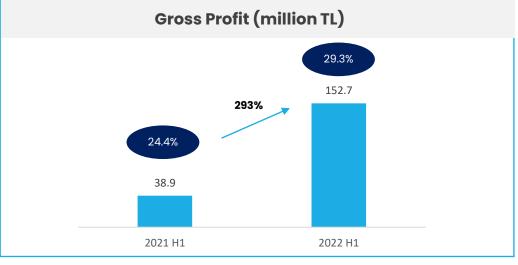


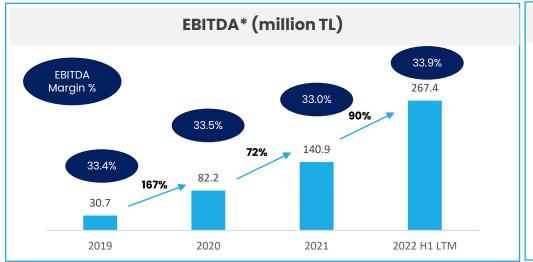


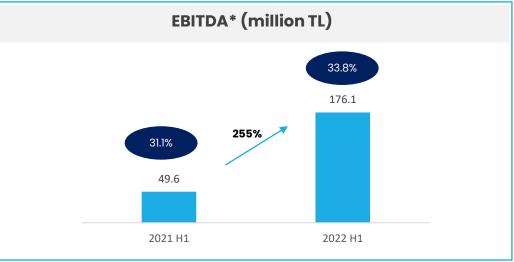


# **Profitability**









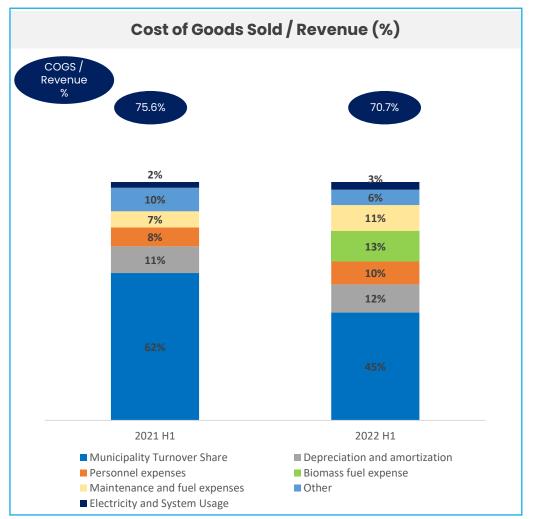


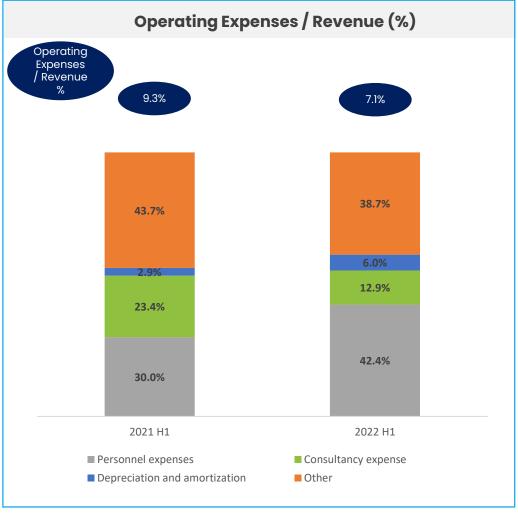
\*EBITDA: Gross Profit – Operating Expenses + Depreciation&Amortization Expenses + Landfill Facility Valued by Equity Method (%50)

Important Note: The pre-tax figure has been calculated as the shareholding ratio (50%) of Landfill Enerji A.Ş., one of our financial investments valued by the equity method, and is included in EBITDA.



# **COGS& Operating Expenses**



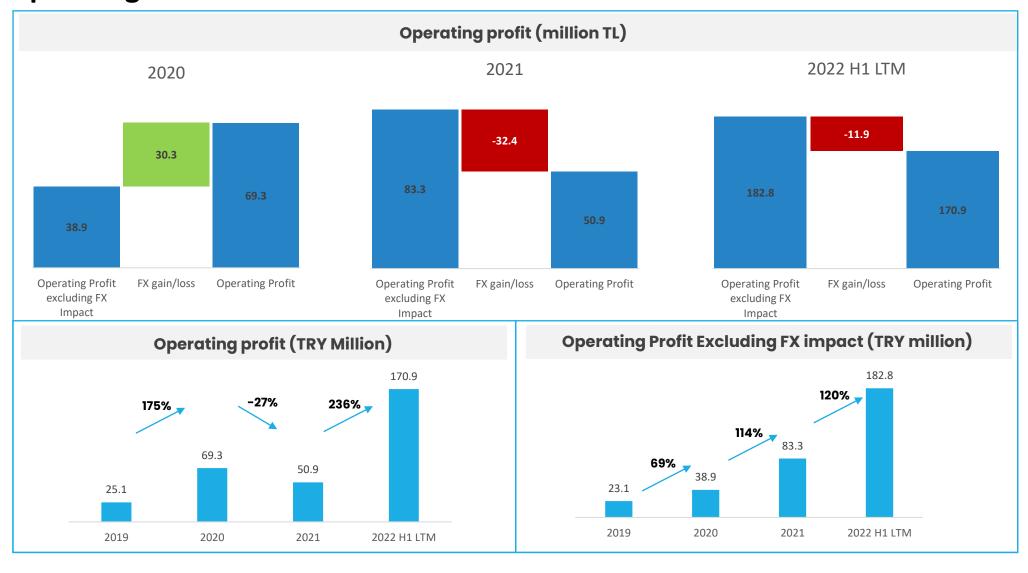


With the efficient operation of our commissioned facilities, the operating expense / net sales ratio in the first half of 2022 was 7.1% (2021/H1: 9.3%).





# **Operating Profit**



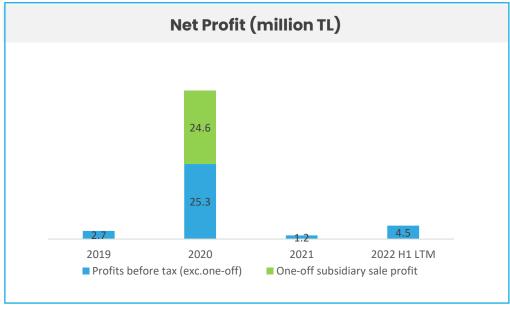
• The company continues to increase its operating profit on a regular basis.



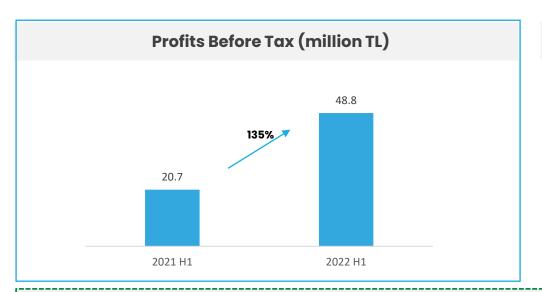


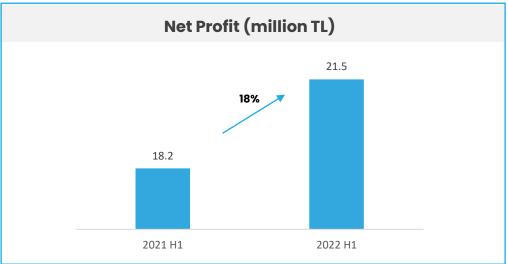
## **Net Profit**





<sup>\*</sup>Includes one-off profit of TRY 24.646 thousand, based on the sale of subsidiaries Boğazköy, Yarcan, Afyon and Ordu in 2020.



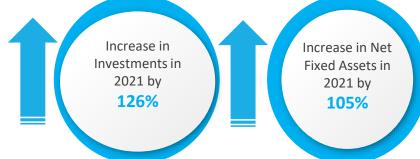


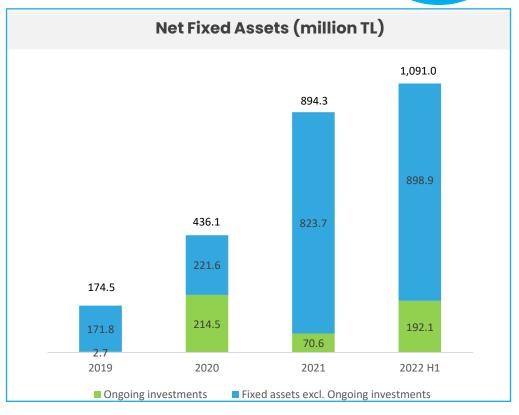


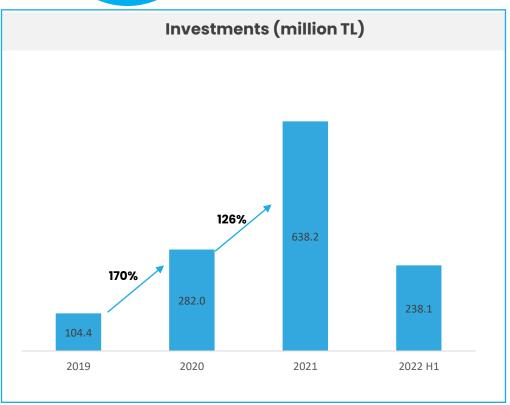
■ Net profit before tax for 2022 H1 LTM includes TRY -123,6 million FX impact (2021: -77.3 million TL, 2020: -1.2 million TL).



## **Investments**







- Foreign currency equivalents of investments: 2019: USD 30.73 M, 2020: USD 62.26 M, 2021: USD 100.8 M, 2022 H1: USD 16.5 M
- 2022 investments continue on the planned calendar.

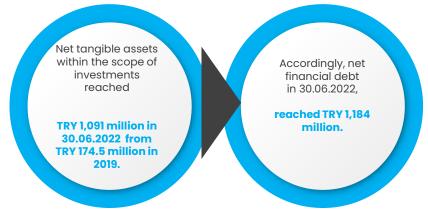




# **Net Financial Debt**

Net Financial Indebtedness(TRY million)	31.12.2019	31.12.2020	31.12.2021	30.06.2022
Short-Term Bank Loans	0.0	0.1	0.1	0.0
Short-Term Portion of Long-Term Bank Loans	31.8	84.7	189.1	287.7
Other Short Term Financial Indebtedness	0.4	1.0	2.3	2.4
Short-term financial indebtedness	32.2	85.9	191.5	290.1
Long-Term Bank Loans	96.1	332.0	705.4	895.1
Other Long Term Loans	15.9	36.4	72.9	71.5
Long-Term Financial Indebtedness	112.0	368.4	778.3	966.6
Total Financial Indebtedness	144.2	454.3	969.8	1,256.7
Cash and Cash Equivalents	18.3	101.8	170.9	72.6
Net Financial Debt	125.9	352.5	798.9	1,184.1
Total Financial Debt/Total Assets (x)	0,4	0,4	0,4	0,6
Net Financial Debt/ EBITDA (x)	4.1	4.3	5.7	4.4*

<sup>\*</sup>Calculated with 2022 H1 LTM EBITDA.







# **2022 Guidance**

2022 Guidance				
Total Consolidated Revenues	1.1 – 1.3 billion TL			
Installed Capacity (MWe)	~120 MWe			
Average Installed Capacity (MWe)	~90 MWe			
Gross Electricity Generation (MWh)	~650-700 thousand MWh			
Net Electricity Generation (MWh)	~600-650 thousand MWh			
Electricity Capacity Utilisation Rate	~80%			
Net Financial Debt/ EBITDA	2.50x - 3.00x			
CAPEX	60%-65% of Total Consolidated Revenues			

**Financial Data** 







#### **INCOME STATEMENT**

# **Income Statement**

Mn TRY	2020	2021	2021 H1	2022 H1
Revenue	245.3	427.7	159.5	521.7
Cost of Sales	(177.5)	(304.4)	(120.6)	(369.0)
Gross Profit	67.8	123.3	38.9	152.7
General Administrative Expenses	(20.8)	(39.9)	(13.8)	(35.1)
Marketing Expenses	(1.1)	(2.6)	(1.0)	(1.7)
Other Operating Income	67.1	22.2	29.5	86.8
Other Operating Expenses	(43.7)	(52.2)	(28.9)	(57.9)
Operating Profit / (Loss)	69.3	50.9	24.7	144.8
Income from Investment Activities	26.5	3.3	1.2	1.2
Share of Investments' Profit (Loss)	11.1	25.7	8.2	2.6
Financial Income	16.3	53.4	11.9	78.6
Financial Expenses	(63.7)	(113.1)	(25.4)	(178.4)
Profit / (Loss) Before Tax	59.5	20.4	20.7	48.8
Tax Income / (Expense)	(9.5)	(19.1)	(2.5)	(27.3)
Net Profit / (Loss) for the Period	49.9	1.2	18.2	21.5





**BALANCE SHEET** 



Mn TRY	31.12.2020	31.12.2021	30.06.2022
Cash and Cash Equivalents	101.8	170.9	72.6
Trade Receivables	30.2	104.4	141.2
Stocks	4.4	63.7	95.3
Prepaid expenses	63,9	242.7	255.2
Other	36,6	101.3	126.7
Current Assets	236.9	682.9	691.0
Investments Accounted for Using Equity Method	25.3	51.0	53.7
Property, Plant and Equipment	436.1	894.3	1,091.0
Right-of-use assets	37.4	73.9	71.5
Intangible Assets	64.9	61.1	58.7
Other	14.2	62.9	87,4
Fixed Assets	577.9	1,143.2	1,362.2
Total Assets	814.8	1,826.1	2,053.2
Short-Term Borrowings	0.1	0.1	-
Short-Term Portions of Long-Term Borrowings	85.7	191.4	290.1
Trade Payables	88.4	217.7	197.0
Other	47.3	64.6	67.0
Short-Term Liabilities	221.5	473.8	554.1
Long-Term Borrowings	368.4	778.3	966.6
Other	24.9	20.7	24.1
Long-Term Liabilities	393.3	799.0	990.7
Paid-in Capital	128.0	500.0	500.0
Premium discounts on shares	-	26.5	26.5
The Effect of Mergers Involving Enterprises or Businesses Under Common	-21.9	-21.6	-46.4
Control			
Fixed Tangible Assets Revaluation Gains (Losses)	37.8	72.7	72.0
Hedging Gains/Losses	-	-62.9	-111.9
Previous Years Gains/ (Losses)	5.8	37.5	46.7
Net Profit for the Period	50.5	3.8	21.5
Non-controlling Interests	-0.2	-2.7	-
Equity	200.0	553.3	508.4
Total Liabilities & Equity	814.8	1,826.1	2,053.2





# A Portfolio with Long YEKDEM Tariff and Upside Potantial that can be created After the YEKDEM Term

**Company Overview** 

Average remaining YEKDEM term of the Company's operating plants

**7.4 YEARS** End of 2022 Q2

Remaining contract periods with relevant Administrations (i.e.municipalities)

**18 YEARS** 

100% of the portfolio (2022 Q2) benefits from the previous High YEKDEM feed-in tariff

133 USD/MW and 138 USD/MW\*



The upward trend in energy prices





# **Operational Efficiency Advantage of Biomass Power Plants**

Source	Time (hours)	Capacity Factor (%)
Wind (WPP)	2,628	30
Solar (SPP)	1,750	20
Biomass (BPP)	7,500	85

**Company Overview** 









# Biotrend's Rising Position in the Growing Biomass Industry...



**Company Overview** 







**SUSTAINABILITY** 

United Nations (UN)
Global Compact



We believe that ensuring the sustainable and balanced growth of the global economy is the primary duty of all companies, regardless of the sector. In order to achieve this growth, we strive to comply with certain principles in environmental and social issues, to make investments for human rights, and thus to achieve the "Sustainable Development Goals" of the UN.

Acting for this purpose, we, as Biotrend Energy, signed the UN (United Nations) Global Compact, of which over 14 thousand companies and more than 4 thousand non-corporate institutions are members in more than 160 countries around the world. This signature underlines once again our sensitivity to human rights, working conditions, environmental and social issues for public institutions while we have broken another ground in the field of energy.







We continue our activities to raise violence, manipulation and legal rights awareness within our company. To this end, we provide free-of-charge family counseling for our employees, we hold morale nights, ecotherapy and frequency therapy sessions.

SUSTAINABILITY

**HUMAN RIGHTS** 







**SUSTAINABILITY** 

SOCIAL RESPONSIBILITY PROJECTS













#### **AWARDS**



EN QUALITY BIOMASS ENERGY AWARD



OUR ENERGY OUR FUTURE AWARD



ÎNÖNÜ UNIVERSITY FACULTY OF MEDICINE



SUSTAINABLE ENERGY EXCELLENCE AWARDS 2016



OUR ENERGY OUR FUTURE AWARD



RENEWABLE ENERGY BRAND OF THE YEAR AWARD



WOMAN FRIENDLY BRANDS 2022 AWARENESS AWARD



"HAPPY PLACE TO WORK" IN RENEWABLE ENERGY SECTOR



EBRD SUSTAINABILITY AWARDS 2021 SUSTAINABLE ENERGY CATEGORY BRONZE AWARD



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