ALTEO: Renewable, Circular, Sustainable



Anita Simon Deputy CEO, Sustainability and Circular Economy ALTEO Group 29th March, 2022



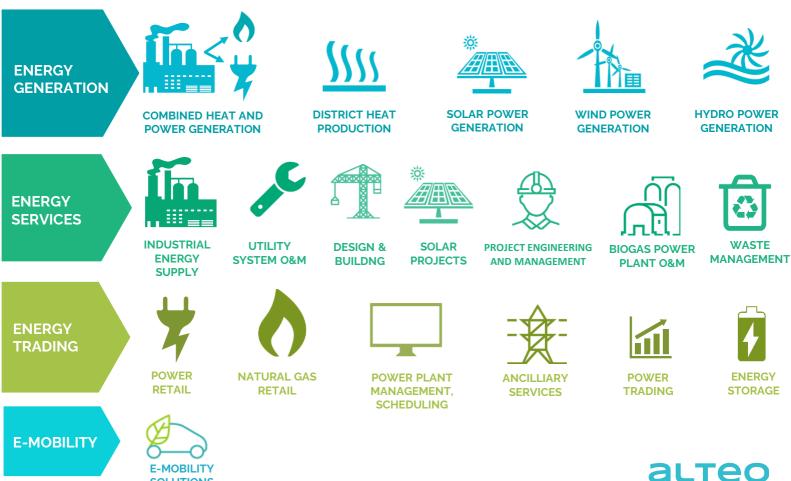
With energy in mind.

Our vision is to create sustainable business advantage to our clients with the best available energy solutions of today, in order to become the enterprises of tomorrow. Together.

INTRODUCTION OF ALTEO ALTEO'S ACTIVITIES AT A GLANCE

SOLUTIONS

INTEGRATED ENERGY COMPANY WITH SERVICES ALONG THE WHOLE ENERGY VALUE CHAIN



INTRODUCTION OF ALTEO ALTEO'S MAIN FIGURES AT A GLANCE

11 MW

energy storage capacity

60 000 t/a

organic waste traded

636 GWh/a

2010 year of entering Budapest Stock Exchange 130 MW

316 MW own heat generating capacity

270 employees

587 GWh/a

electricity generated

8210 TJ/a heat generated

33 Bn HUF



traded natural gas

193 MW operated power plant capacity



INTENSE INVESTMENT IN SUSTAINABILITY...

Acquisition of two natural gas fired power plants from E.on Start of our power trading business line Acquisition of first 3 wind turbines

Acquisition of SINERGY from RWE

Control center. Industrial references. District heat production.

First solar power plant in our portfolio

Building CEE region's first and biggest (6 MW) industrial size battery power storage system

Acquisition of a 25 MW wind portfolio, EPC of 22 MW PV New business lines: waste management, e-mobility

Acquisition of a 15 MW wind portfolio

New business line: production management of renewables

Building another 5 MW battery storage system (partially composed of used car batteries)

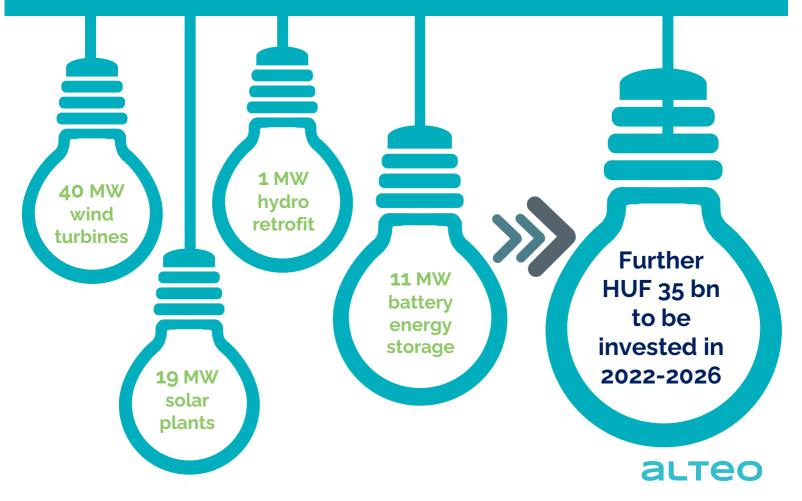
New business line: renewable production mgmt

Story of ALTEO 2008 **Establishment of ALTEO** 2010 Listing on the Budapest Stock Exchange (BÉT) 2016 First IPO (BÉT) 2021 BUX membership (BÉT)

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INVESTMENT IN SUSTAINABILITY

ALTEO TO INVEST OVER HUF 25 bn IN SUSTAINABILITY PROJECTS SINCE 2018



INTRODUCTION OF ALTEO AI TEO OPERATED POWER PLANTS

RENEWABLE BASED 72,4 MW

WIND: 47,5 MW

Bőny: 25,0 MW Bábolna: 15,0 MW。 Ács: 2,0 MW Pápakovácsi: 2,0 MW Jánossomorja: 1,8 MW Törökszentmiklós: 1,5 MW,

SOLAR: 19,2 MW

Nagykőrös: 7,0 MW Balatonberény: 6,2 MW Monor: 4,0 MW Domaszék: 2,0 MW

BIO: 3,1 MW

Nagykőrös (biogas): 2,0 MW, Debrecen Civis1 (landfill): 0,6 MW Debrecen Civis2 (landfill): 0,5 MW,

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HYDRO: 1,9 MW Felsődobsza: 0,9 MW

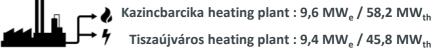
Gibárt: 1,0 MW

NATURAL GAS FIRED 150 MW_e / 781 MW_{th} DISTRICT HEAT: 42 MW_e / 125 MW_{th}

Budapest (Zugló) heating plant: 18,2 MW_e / 16,5 MW_{th}

Tiszaújváros heating plant : 9,4 MW_e / 45,8 MW_{th}

Ózd heating plant : 4,8 MW_e / 4,9 MW_{th}





INDUSTRIAL: 107 MW_a / 655 MW_{th}

Tiszaújváros (TVK Power Plant): 36 MW_e / 297 MW_{th} Kazincbarcika (BC Power Plant): 47 MW_e / 206 MW_{th} Kazincbarcika (BC Therm): - MW_a / 90 MW_{th} Sopron Power Plant : 6 MW_e / 38 MW_{th} Győr Power Plant : 18 MW_e / 24 MW_{th}



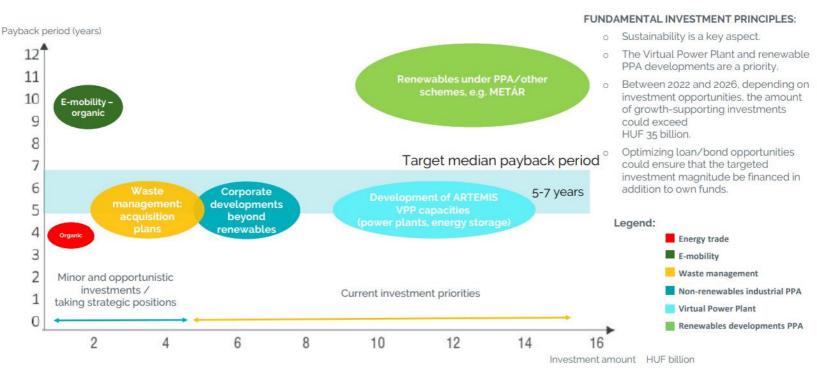
COMMERCIAL: 1 MW_e / 1,3 MW_{th} Agria Park 1 MW_a / 1,3 MW_{th}

ALTEO'S ACTIVITIES: SUSTAINABLE IN MANY ASPECTS



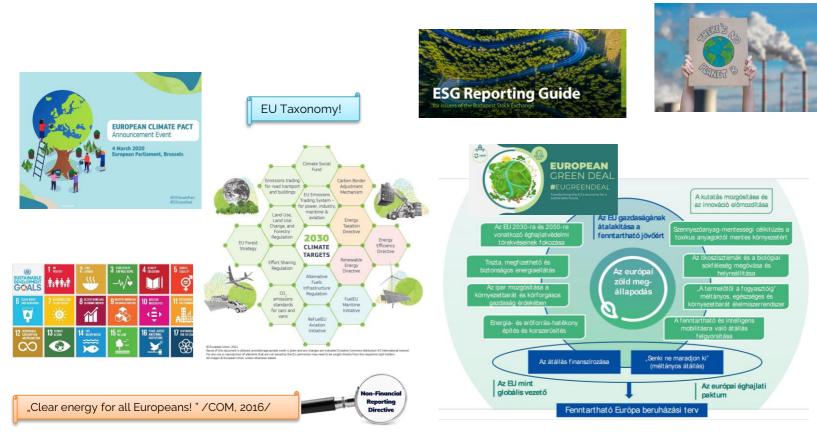
*Wind, solar, hydro, biogas, deponia gas power plants

ALTEO's INVESTMENT STRATEGY 2021-26 Investment in sustainability is core to us



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OBLIGATIONS, CHALLENGES



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THE BUSINESS MODEL OF BIOGAS PRODUCTION

- 1. Vegetable and animal origin by-products, wastes and expired warehouse food are delivered to a biogas plan
 - We process and mix the ,material and keep it warm in a closed process. Goal: gas production.



- 3. The gas (biogas) is combusted in gas engines that produce heat and electricity.
- 4. We market the power produced by the biogas plant, we earn money from which the plant is managed. The 2 MW biogas plant in Nagykőrös can secure the energy needs of 4500 households.
- 5. Residues of the prcess will also be managed (homogenized) and deliveredy away by ALTEO. This is a valuable natural fertilizer for the agriculture that helps to avoid the usage of chemical manure.

Bioagas is a source of renewable energy that unites environmental protection with energy generation.

We use renewable energy sources, decrease CO2 and CH4 emissions, manage a lot of waste, while we are generating energy and fertilizers.



2.

VALUE CREATION FROM ORGANIC WASTE

The business model of biogas production

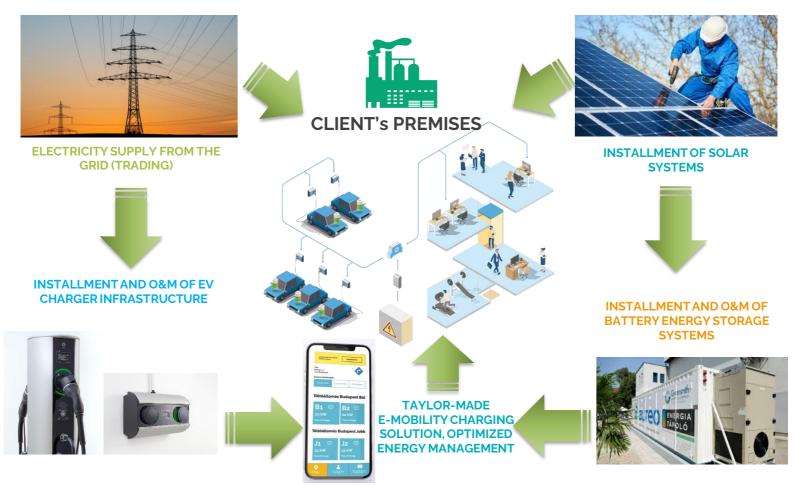
THE PROCESS OF CREATING VALUE FROM WASTE



YOU CAN REUSE YOUR PRUDUCED MATERIAL IN YOUR BIOGAS PLANT



CLIENTS EXPECT COMPLEX SOLUTIONS FROM US



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E-MOBILITY = DECENTRALIZATION



E-car (EV) charging is "hand in hand" with energy generation, storage and energy management

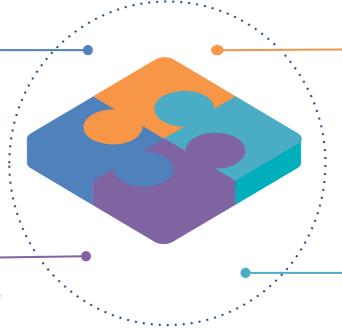
Energy storage

It will be worth to store unconsumed energy and unused energy capacity locally and use it for EV charging

Energy management

EV charging can be _____ adjusted to the buildings' actual energy needs. Time to say goodbye to energy demand peaks.

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Energy generation

EV fuel can be generated and stored on-site where EV's spend most of the time parking (homes, offices, companies)

EV charging

Cars park on average 20-22 hours a day. This amount of time is ideal for charging at different locations

ALTEO's SUSTAINABLE OPERATIONS - VISUALIZED





Wind turbines

Solar power plant



Biogas plant



Hydro power plant



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THANK YOU

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