## MARCH 2024

## ENERGY & CLIMATE TECHNOLOGIES INVESTOR PRESENTATION

## SABANCI

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## Expansion to new adjacencies & abroad by leveraging the pioneer position in Türkiye





## Strategic Direction from "Traditional" to "Disruptive"...



Sustainability is our guiding principle in each and every business decision we take. We aim to benefit & develop our strong human capital and competencies to expand our operations abroad.





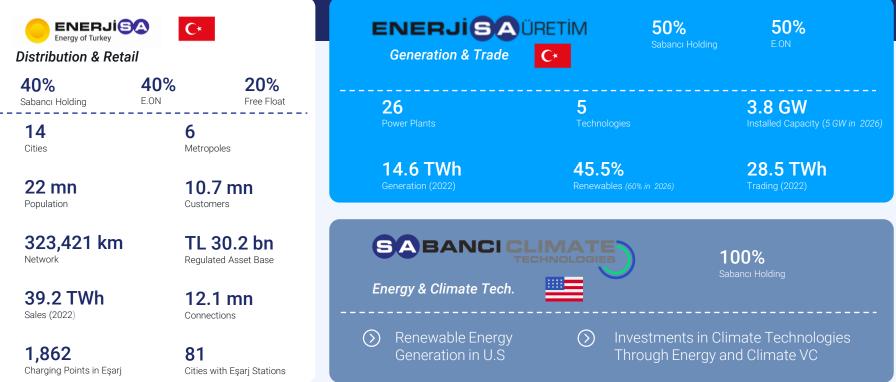
We position ourselves in the center of the global innovation ecosystem. We are committed to staying at the center of the technologies that will shape the future energy world.





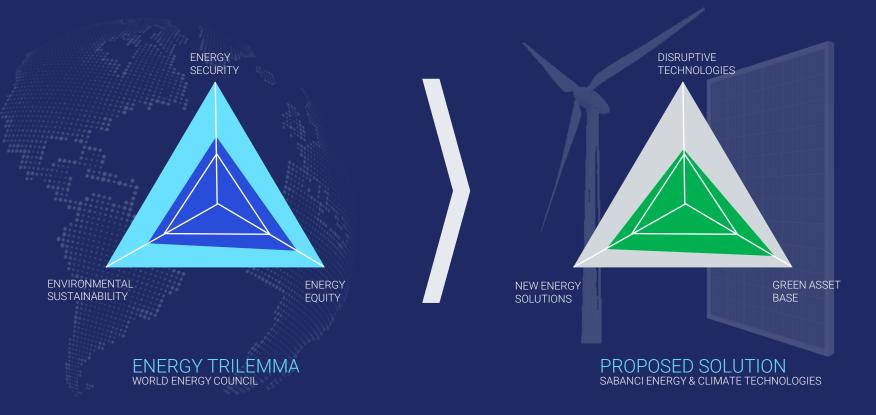


## ...with our subsidiaries present in many steps of the energy value chain...

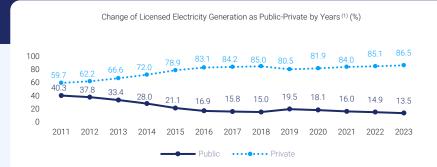


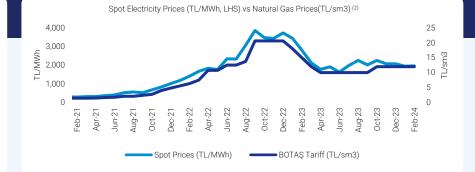


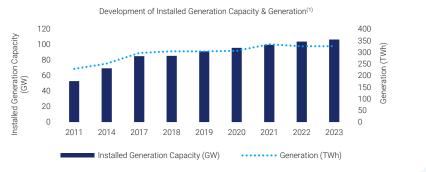
## ...in order to achieve the impossible in the "Energy Trilemma"

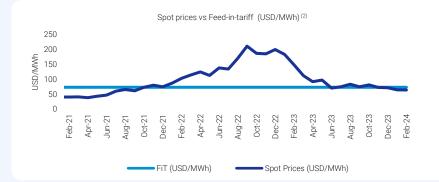


### Liberalized market mechanism in Türkiye









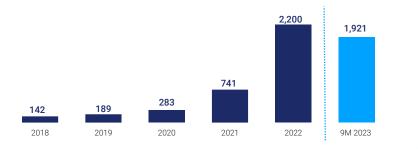


#### ENERGY & CLIMATE TECHNOLOGIES

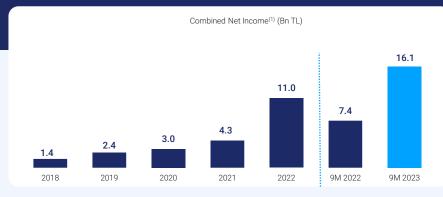
### Exceptionally strong performance driven by stronger returns in Türkiye



Dividends<sup>(2)</sup> Paid to Sabanci Holding (Mn TL)



Excludes non-operational and non-recurring one off items
 2022 and 9M 2023 dividend figures include advance dividend of the following year.



Net Debt / EBITDA (1) Ratio



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## Enerjisa Üretim, with its clear roadmap, would continue to grow continuously by utilizing its own resources...

Growth in Renewable Generation Capacity

Protect & Grow the Core

**O** Trade Business Expansion (Power, Gas and Carbon) Globally

○ Expand Digital & Energy Services

Adjacencies & Transform

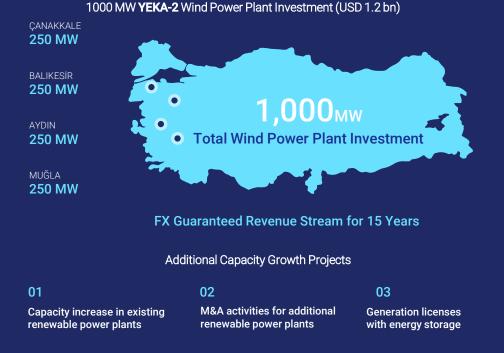
**Explore Green Hydrogen** 



....consequently, a significant step towards +5,000 MW installed capacity target has been taken



Installed **Generation** Capacity Mix<sup>(1)</sup>



Turkish Electricity Spot Market Day Ahead Price (DAP)

# USD-based fixed price to continue after gradually replacing FiT renewable power plants with 1GW YEKA project for 15 years contract period

DAP (USD/MWh)

Enerjisa Üretim Natural Gas (1.6 GW) & Lignite (0.4 GW) Generation are priced as follows;

Price Caps & Limits

Enerjisa Üretim is bound by market price after removal of technology based maximum settlement price as of Oct. 2023.

Enerjisa Üretim Renewable Generation (1.8 GW) is priced as follows;

FiT & Spot Market	<ul> <li>Wind: 73 USD/MWh</li> <li>Hydro: 73 USD/MWh</li> </ul>	Enerjisa Üretim ~430MW
	<ul><li>Spot Price (DAP)</li><li>Licence tender fixed price</li></ul>	Enerjisa Üretim ~1,370MW
	·'	



## Exploring next generation capabilities in power generation & trading

#### ASSET LIGHT GROWTH



Gold Standard Y = K G 4 THE INTERNATIONAL

#### Trading Globally

- Establishment of Energisa Commodities BV in 2023.
- Trading in 8 different countries and having activities for power, gas and carbon etc. for 25 countries.
- Reached a trading volume of +10 TWh in CWE<sup>(1)</sup> and CESEE<sup>(2)</sup> in 2023.

#### **GREEN HYDROGEN**

- Started to produce & store green hydro pilot project to use in generator cooling first private sector player in Türkiye.
  - Joined a 16-member consortium for the "HY South Marmara Project," which aims to establish Türkiye's first Green Hydrogen Valley.
  - Planned to install electrolyzers, in line with the expected domestic and international demand.

#### **Energy & Digital Services**

- Establishment of Senkron Energy Digital Services BV in 2023.
- Commercializing technological know-how and digital services with low market entry cost while sustaining the competitive advantage
- Providing plant management, data services, cyber security solutions and digital energy platform for training and green energy solutions.



#### **ENERGY STORAGE LICENSES**

- Energy storage prelicenses were distributed by the regulatory authority which covers utility scale electricity storage facilities coupled with same capacity wind or solar power plants.
- Energisa Üretim received 500 MW capacity for 3 locations, all of which are also wind power plants.



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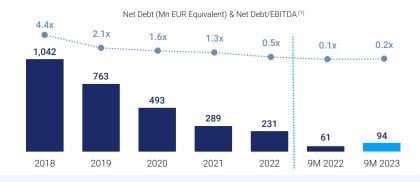
## Solid balance sheet structure & strong financial performance



YTD EBITDA<sup>(1)</sup> Bridge (Mn TL)







**SA**BANCI

(1) Excludes non-operational and non-recurring one off items

# Enerjisa Enerji, in regulated and free market operations, would continue to grow and lead energy transition of Türkiye

Protect & Grow the Core

Adjacencies & Transform

- **O** Maximize Grid Investments (RAB)
- **Optimize Retail Operations**

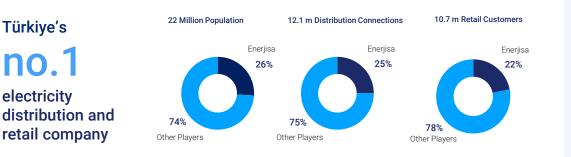
- **O Growth in Customer Solutions** 
  - Distributed Generation / Solar
  - Energy Efficiency & Decarbonization
  - E-mobility / E-charging Platform

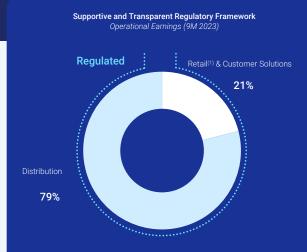


## Strong position in distribution & retail and an inflation-linked business with real return

#### **Competitive Advantages**

- Türkiye's leading electricity distribution and retail company economies of scale
- TL and inflation linked long-term borrowing to match revenue stream access to competitive financing with Sabanci brand
- Fundamental growth from incumbent regions (Başkent, Ayedaş and Toroslar)
- Large retail customer base of more than 10 million (representing 22% market share) with high proportion of regulated sales
- Premium sponsors and superior governance (Sabancı & E.ON)
- Well positioned to capture growth & attractive dividend pay-out





- Regulated Investment Returns with a supportive WACC (12.3%)
- Regulated Efficiency & Quality Parameters
- Regulated Retail Margin (2.38% on reference procurement price and retail service revenues resulting in 6.4% gross margin in 9M 2023)



### Heavily concentrated on network investments but also an important efficiency game





(1) Operational Earnings include Capex Reimbursement

## Acting as a solution partner with technological competencies by leveraging extensive customer network



#### Distributed Generation, Energy Efficiency, Decarbonization & Storage

- Creating a sustainable and service-based business model through Energy Performance Contracts (EPCs)
- Offering our customers environmentally-friendly energy solutions with a focus on distributed generation, decarbonization, and efficiency.
- Developing and executing sizeable-scale projects, with an upside potential highlighted by the Medium-Term Program (2024-2026) of Türkiye.
- 205 MW of solar power plant prelicenses with electricity storage



#### E-mobility / E-charging Platform

 In July 2023, Enerjisa Enerji reached %100 ownership of Eşarj



#### Türkiye's

**no.1** E-mobility DC Charging Point Operator

### With

### %33

High Speed Market Share

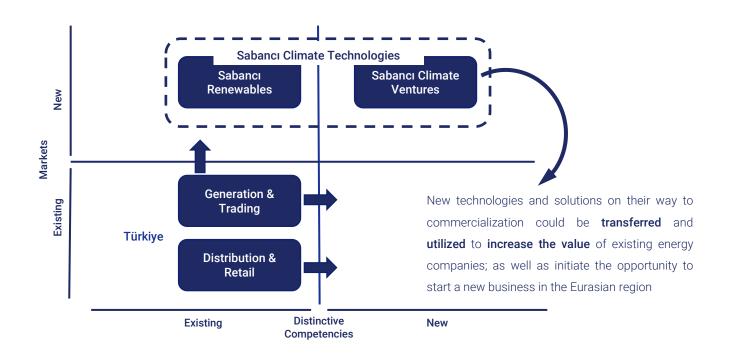
Presence in 81 Cities

1,464 DC Charging Points

**1,862** Total Charging Points



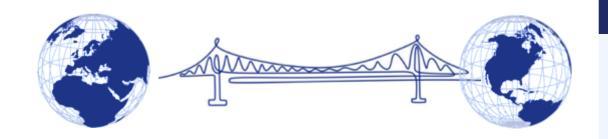
Transforming the energy business to pursue opportunities in "disruption & expansion abroad"





It is time to leverage core capabilities in the Energy SBU & expand the business to create higher value for all stakeholders

We lead energy and climate transition by bridging the gap between emerging and developed markets



**Sabancı Climate Technologies,** wholly owned subsidiary of Sabancı Holding, will undertake renewable energy power plant investments and strategic investments in various venture capital funds and start-ups, primarily in the USA and Europe.

#### Sabancı Renewables

#### **Focus Investment Areas**

- ► On-shore wind
- Utility scale solar
- Battery storage

#### **Distinctive Competency**

> Execution and digital asset management capabilities in renewables

Focus Geographies

► ERCOT

► P.IM

► MISO

#### Sabancı Climate Venture Investments

#### Focus Investment Areas

**Early-stage Energy and Climate solutions** 

#### Focus Geographies

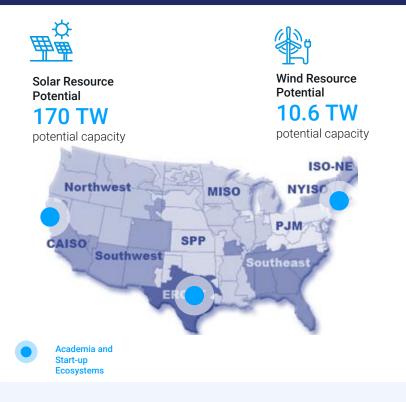
 Predominantly the USA, and Europe as peripheral location

#### **Distinctive Competency**

▶ Early market penetration of startups in emerging markets



## US came to the fore with the attraction of being world's 2<sup>nd</sup> largest renewable energy market & the largest corporate venture ecosystem



#### Facts on Renewable Energy Investments

- ✓ US is the 2nd largest renewable energy market following China. Around 100 GW of renewable capacity was installed in the US for the last 3 years
- US companies have committed to source 80% of their consumption from renewable sources by 2045, which is around 4,050 TWh
  - Extended and enhanced Renewable Energy Incentives (IRA Inflation Reduction Act)
  - The most developed & least-regulated power market and longterm stable base revenue streams in USD terms

The most liquid financial market with the lowest cost of funding

#### Facts on Start-up Investments

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North America set an annual record in capital commitments and captured 66.4% of the funds closed (168 bn USD) in 2022

More than 50% of global unicorns emerge in the US



Further investments are ongoing in on-shore wind and utility-scale solar projects to exceed 1,000 MW





Solid Business Model for the Execution

- Secontract with a pioneer company
- G Highly credible PPA contracts
- ✓ Financing partnerships with global banks
- Solution Tax equity partnership as incentive model of the USA



The first solar investment in Texas has been initiated, and the second solar investment has also started, leveraging the know-how acquired during the initial solar project

#### 272 MW Cutlass II Solar Power Plant Project

- ✓ Project Acquisition: October'22
- Section 22 EPC Agreement with Bechtel: October'22
- Construction Start (FNTP<sup>(1)</sup> to Bechtel): January'23
- O Power Purchase Agreement with a Reputable Off-Taker: January'23
- ✓ Project Finance with Reputable Banks: January'23
- ✓ Tax Equity Closing: October'23
- ♂ Commercial Operation Date: Mid-April'24



## 232 MW Oriana Solar Power Plant Project with 60 MW Storage

- Close to the major load centers of Houston and Corpus Christi, anticipated centers of future green fuel investment, as well as the increasing LNG related load
- Shovel-ready project with low execution risk; developed by an experienced and reputable Project Firm

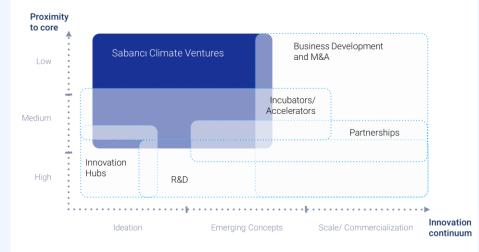
Solid Business Model for the Execution

- Project Acquisition: October'23
- Sepc Agreement: October'23
- Construction Start (FNTP): Q1'24
- ♂ Commercial Operation Date: Q2'25
- Opportunity to invest in battery storage project in the future



## Sabancı Climate Ventures will create extended innovation ecosystem & enable early access to disrupting technologies...

Sabancı Climate Ventures is a necessity to position for the future and not competing with other activities while generating attractive financial returns over the full fund cycle



#### Value Proposition to Start-Ups

- Acceleration, piloting, and commercialization partner in a vibrant emerging market
- Access to multiple generation technologies and +10Mn user-base in the electricity value chain
- Relationship building and expertise gaining opportunity from leaders of Türkiye's largest private utility player

#### Value Extraction

- Strong collaboration with Sabanci Group companies through dedicated platform teams to pilot and scale start-up concepts/products
- Pursue board observer seat in investments to increase collaboration opportunities and learnings



### ....via the investments in climate technologies fund & investments directly to start-up companies

SAFAR PARTNERS

- S Invested in a venture fund with a portfolio of start-ups from seed to growth stage
- Portfolio with a focus on innovative energy and climate technologies, advanced material technologies, artificial intelligence and robotics technologies
- $\odot$
- Deal flow of start-ups originated from within and around MIT, Harvard, and Rochester University

Coming out of MIT's Plasma Science and Fusion Center and reached a valuation of \$5 billion in September 2021

Commonwealth Fusion Systems

- Having the potential to enable clean nuclear energy production in the future to remove the limits on energy
- Breakthrough Energy, founded by Bill Gates, is among the major investors of the company

- QVISE
- Coming out of MIT and reached a valuation of over 100 million USD in June 2022
- ✓ Planning to provide access to deep geothermal energy resources economically with its revolutionary drilling technology
- Sepecially important for Türkiye as the 1st country in Europe to the geothermal potential
- Initiating a joint task force to search for cooperation opportunities in Tufanbeyli PP

G Founded in San Francisco

in 2021

pulsora

- Developed compliance tracking and insight software to manage and improve ESG footprint in various sectors
- Providing deep analytics that can be integrated with ESG systems of companies
- Enabling customization of the platform by companies to define its own framework from a collection of existing standards



- Active Surfaces has developed a low-cost, easyto-manufacture, lightweight, high-performance flexible perovskite solar cell that is manufactured via thin-film deposition.
- Its technology is 10x lighter, has comparable efficiency and stability, and is competitive on an LCOE basis.
- Currently exploring joint development agreements.



While contributing to Türkiye's green energy transition, we stay committed to sound management of ESG risks and investing in communities that we operate in



#### Key Player in Energy Security

- Providing uninterrupted, continuous, accessible energy to one out of every 4 people in Türkiye
- A Leading player in the industry with 3,727 MW with the most diverse generation composition



- Largest contributor to electrification
- One of the largest investors in grid expansion, upgrading, and modernization
- Pioneer in the Digitization of all processes in the electricity value chain
- Operating the largest, fastest, and green Charging Station Network in Türkiye



Commitment to 100% Low Carbon Generation

- 1 out of every 3 solar and wind power plants will be realized by Enerjisa Üretim in the next 5 years
- %15 decrease in GHG intensity in 3 years with the ultimate aim to reach net zero before 2050



Shaping the New Energy World

- Türkiye's first green hydrogen manufacturing plant in a bid to address energy security and green energy transition simultaneously
- With a potential of green hydrogen export capacity to Europe



#### Helping Customers to Decarbonize

- Improving the efficiency of customers and helping them to decarbonize through our innovative and sustainable products under the umbrella of The Energy of My Business
- Trading 3rd parties' carbon and green power certificates
- 30% share in Sabancı Group's SDG-linked net sales revenues





#### **INVESTOR RELATIONS CONTACTS**

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**Şule GENÇTÜRK KARDIÇALIOĞLU** Investor Relations Manager

**Emine DALAN** Investor Relations Specialist

Hamza SÜMER Investor Relations Specialist



For Further Detailed Financial Results and Presentations

Meet SirA, Sabancı Holding's digital investor relations assistant !

Turkey's First Investor Relations Dedicated Assistant !

For Further Details

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