

- DISCLAIMER -

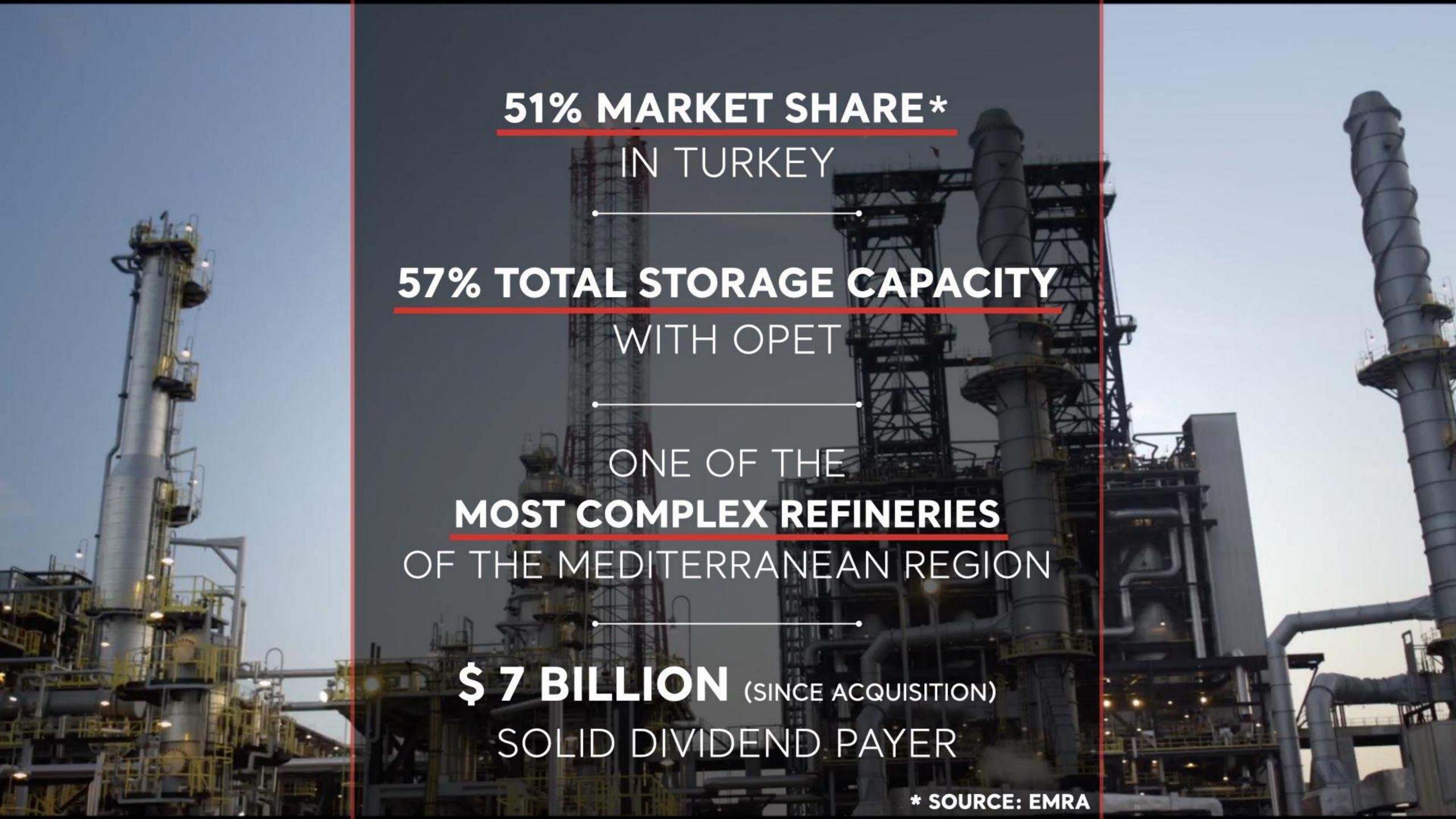
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Although it is believed that the expectations reflected in these statements are reasonable, they may be affected by variables and changes in underlying assumptions that could cause actual results to differ materially.

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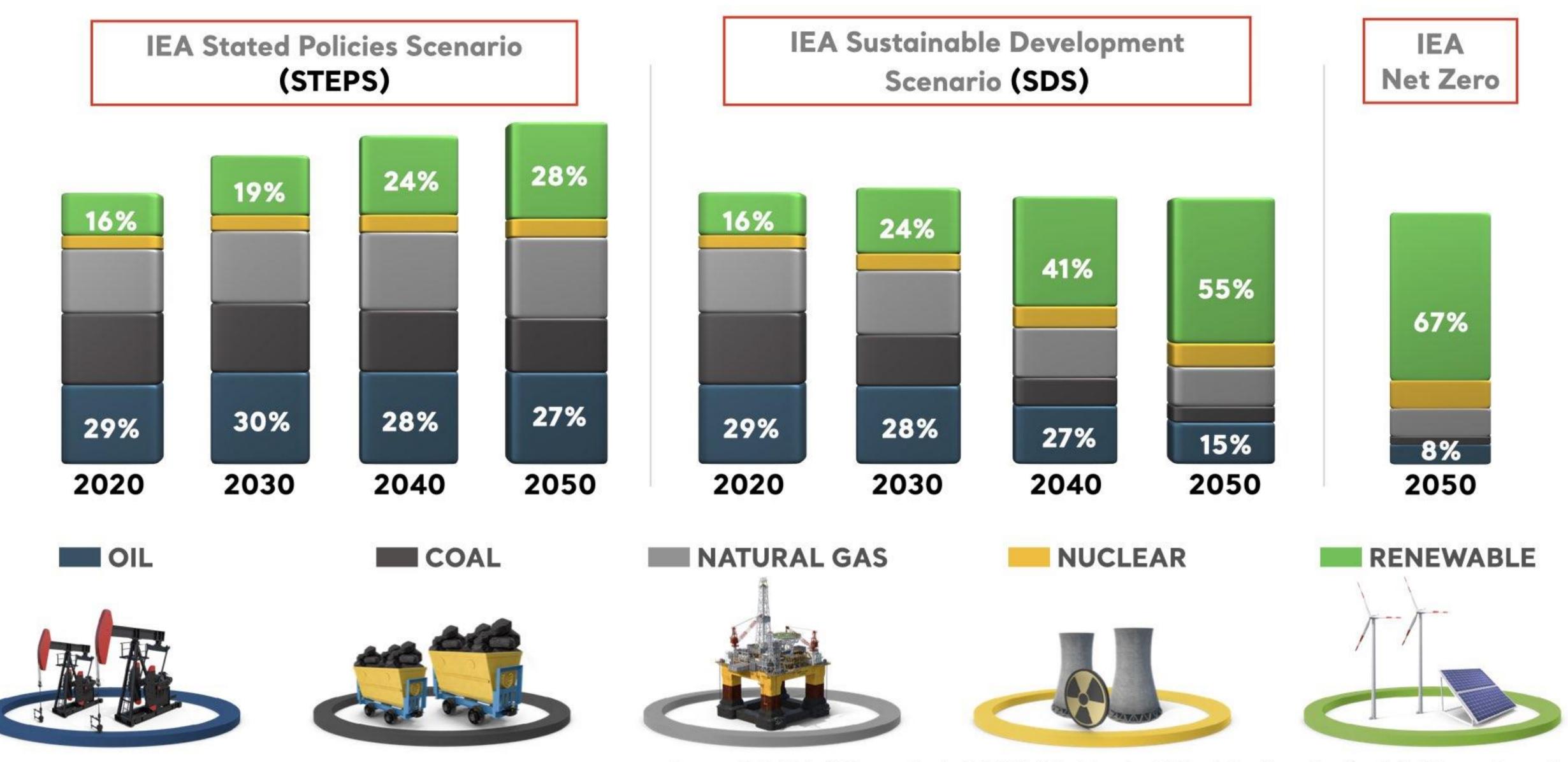




WE WILL LEAD TURKEY'S ENERGY TRANSFORMATION, BY CREATING A DIVERSIFIED PORTFOLIO



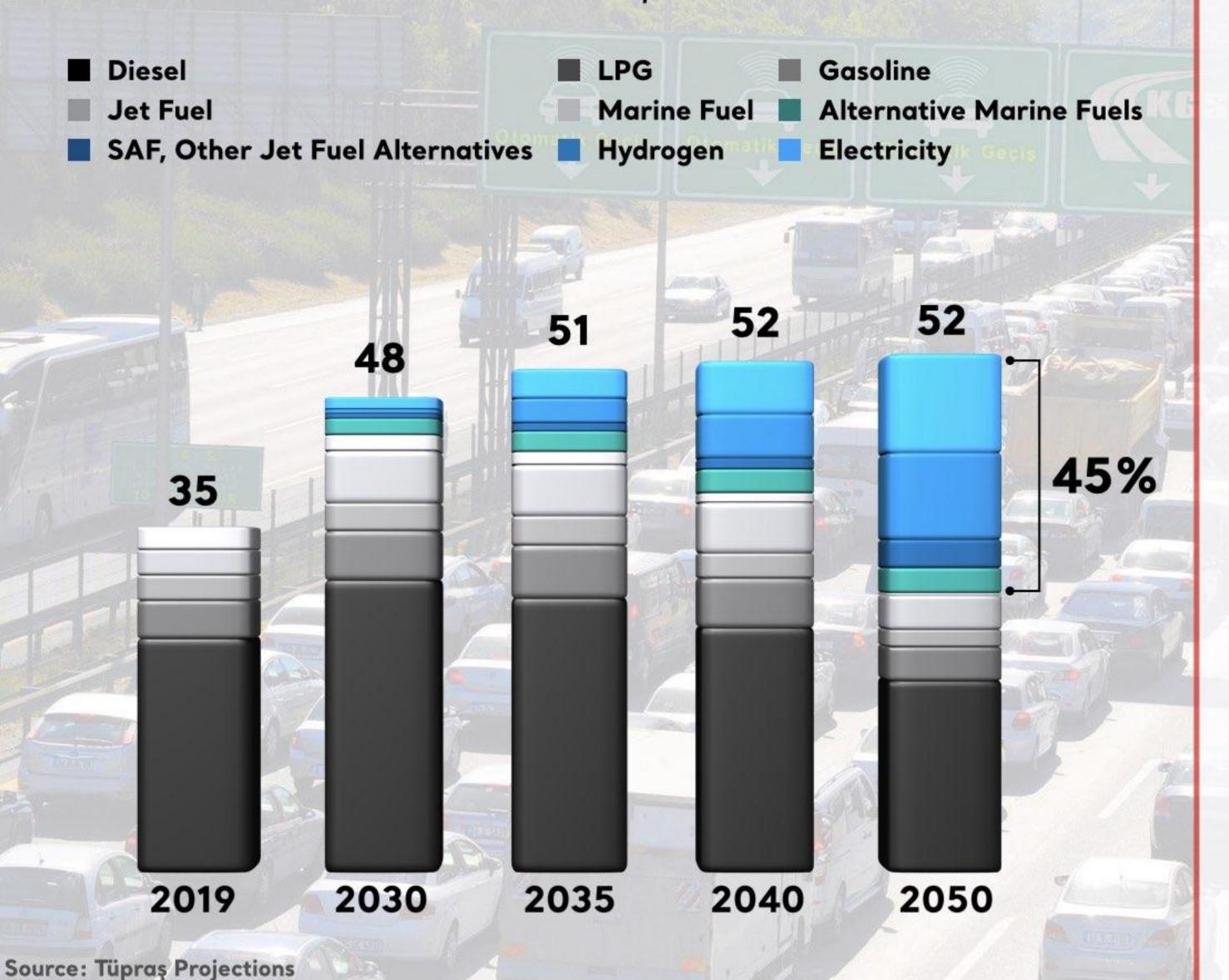
GLOBAL PRIMARY ENERGY DEMAND OUTLOOK





Turkey's Transportation Energy Demand

in million tonnes of oil equivalent (mtoe)



OUR PROJECTIONS



Turkey's fossil fuel consumption to peak in 2030



Diesel to be partially **replaced by H₂**, for commercial vehicles existing domestic refining capacity will still be well positioned



In passenger cars, **EVs** to **lead new** sales starting early 2030s and become the **dominant powertrain** before 2040



H₂ to enter a rapid growth phase from 2030



Sustainable Aviation Fuel (SAF) to cover ~10% of aviation fuel by 2030



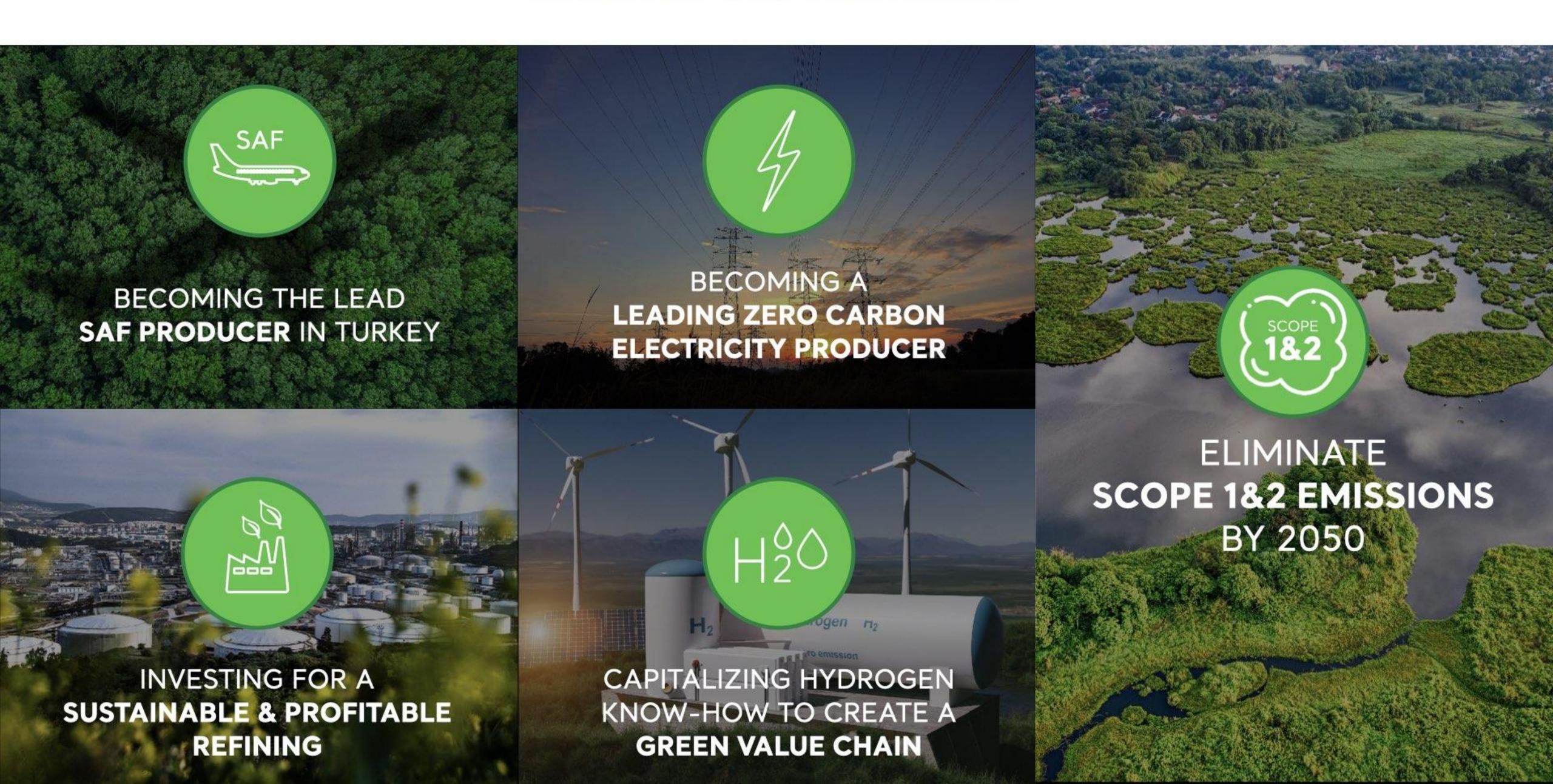
STRATEGIC PRIORITIES

GREEN

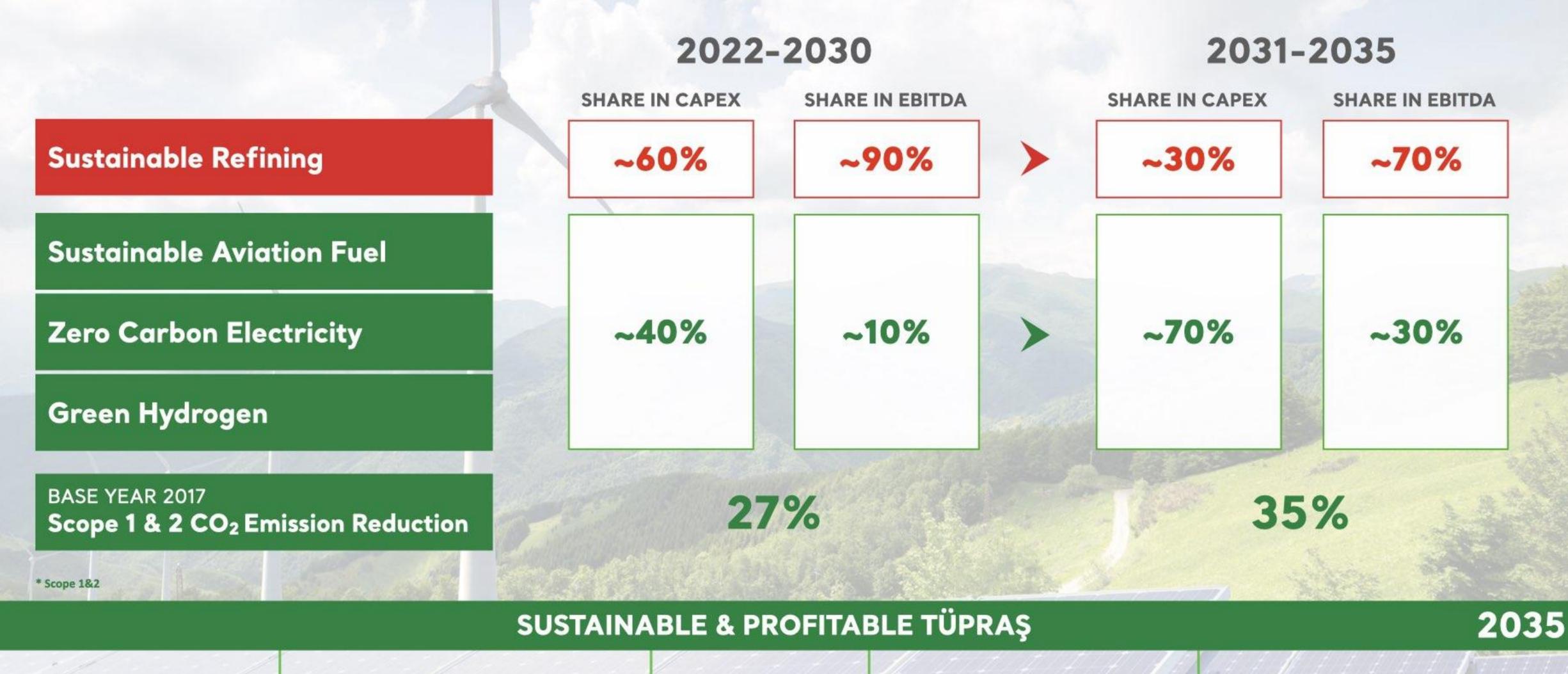
HYDROGEN



STRATEGIC ACTIONS



TRANSITION PLAN TOWARDS BEING A CARBON NEUTRAL* COMPANY



Average EBITDA

>\$1 bn per annum

Average CAPEX ~\$350 mn per annum

ROACE > 25%

Net Debt / EBITDA <2.0x

Avg. Dividend Payout

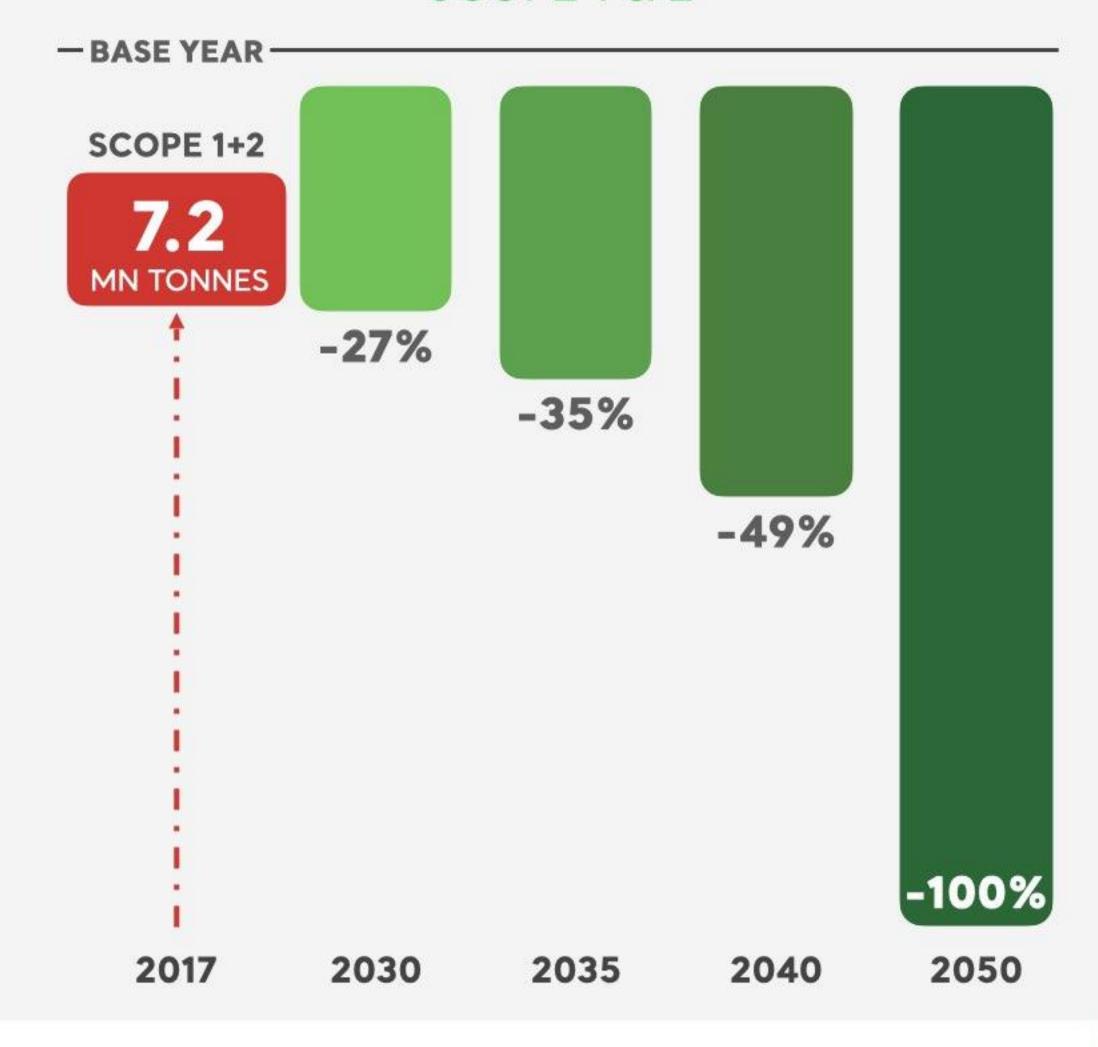
x ~80%



We will invest in energy efficiency & decarbonization projects, green hydrogen & zero carbon electricity usage in refining to reduce scope 1 & 2 emissions

EMISSION REDUCTION

SCOPE 1 & 2



STRATEGIC TRANSITION PLAN



SUSTAINABLE REFINING



BIOFUELS



ZERO CARBON ELECTRICITY

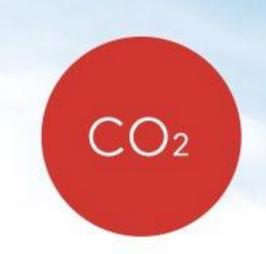


GREEN HYDROGEN



SUSTAINABLE REFINING







DECARBONIZATION PROJECTS

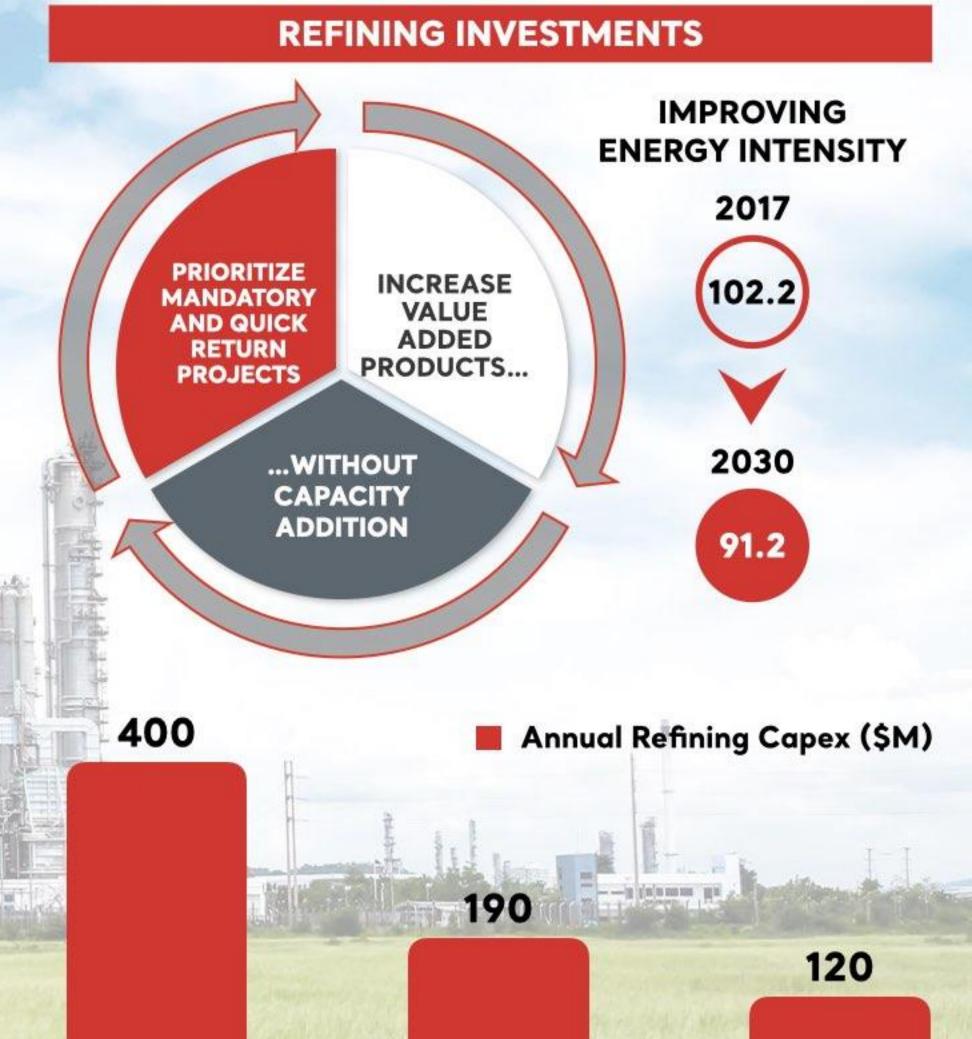
~\$2.3BN CAPEX ~\$13BN EBITDA**

- REFINING WILL REMAIN AS A MAJOR EBITDA CONTRIBUTOR
- WE WILL CONTINUE TO INVEST TO

DIVERSIFY PRODUCT PORTFOLIO THROUGH LIGHTER CHEMICAL STREAMS

IMPROVE REFINING PROFITABILITY

REDUCE SCOPE 1 & 2 EMISSIONS

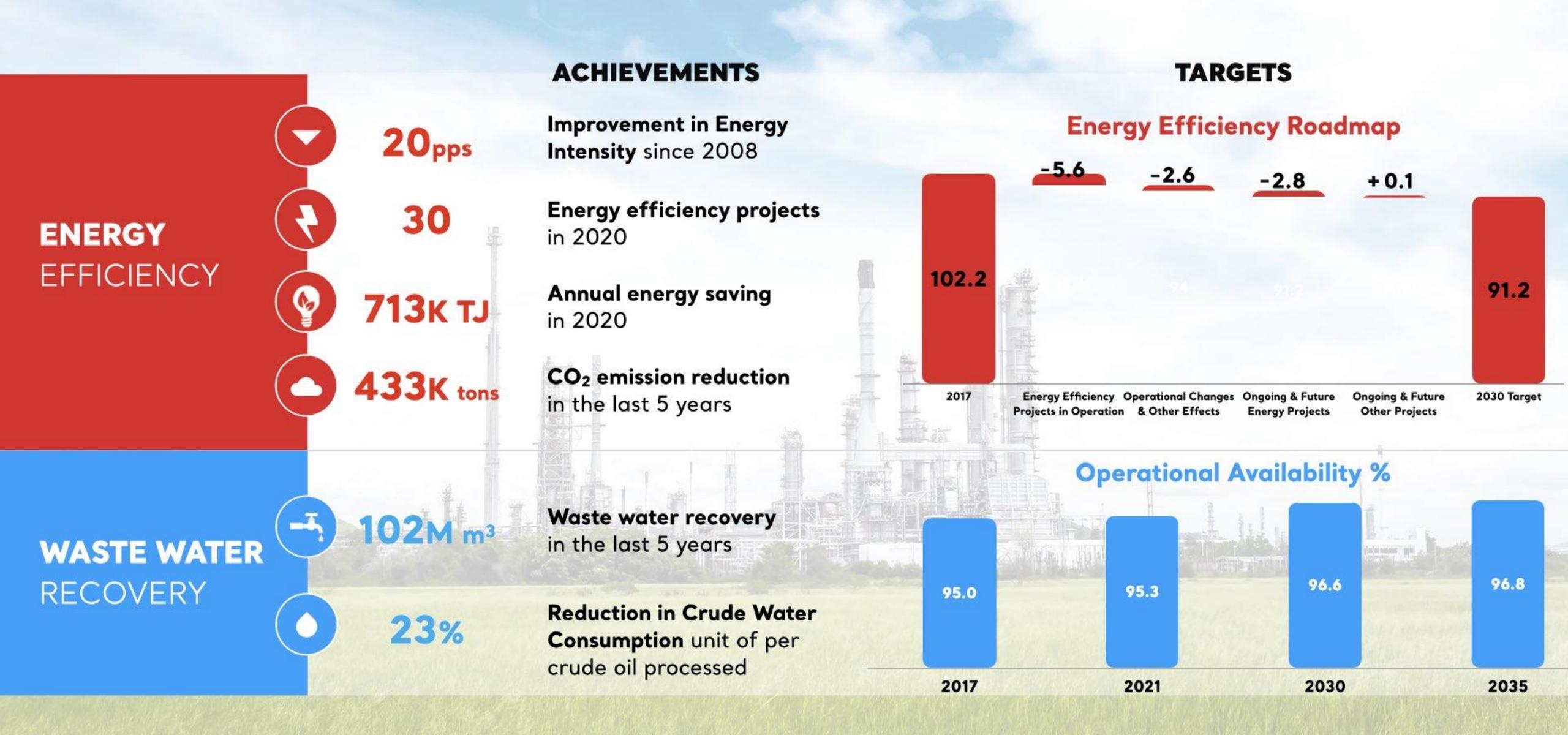


2022-2030

2006-2020*

2031-2035

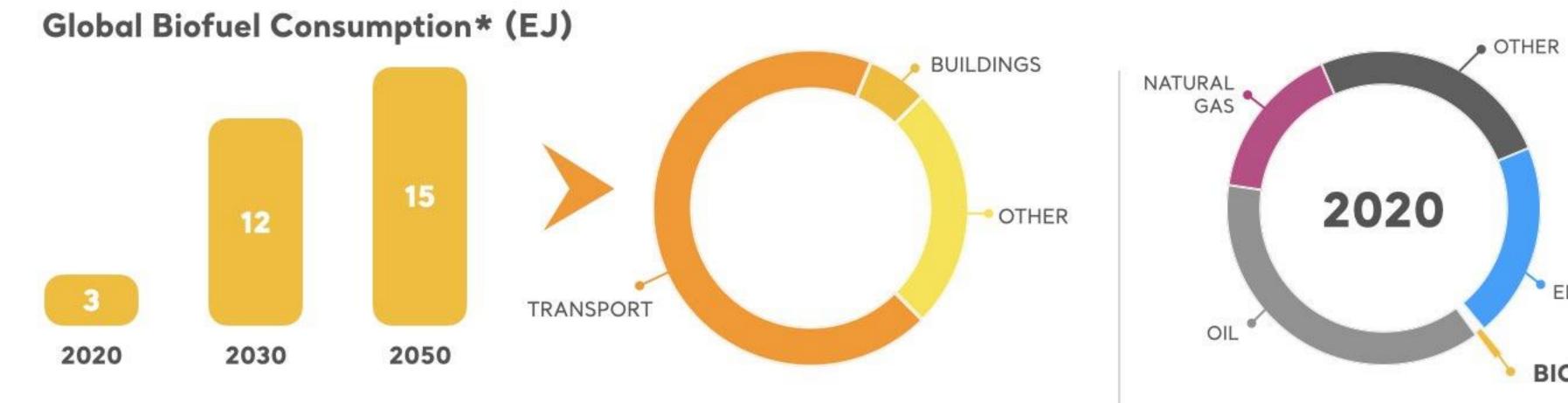
SUSTAINABLE REFINING

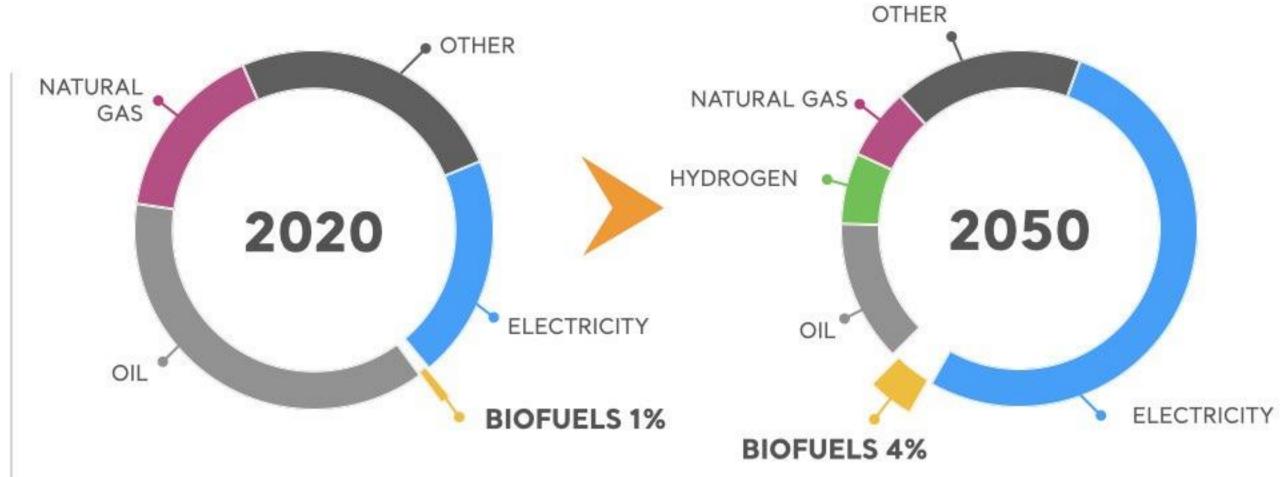




BIOFUELS

MARKET OUTLOOK

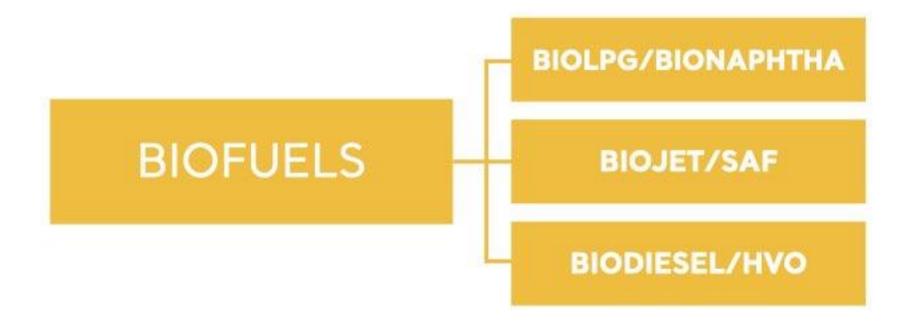




* Source: IEA, Net Zero by 2050: A Roadmap for the Global Energy Sector

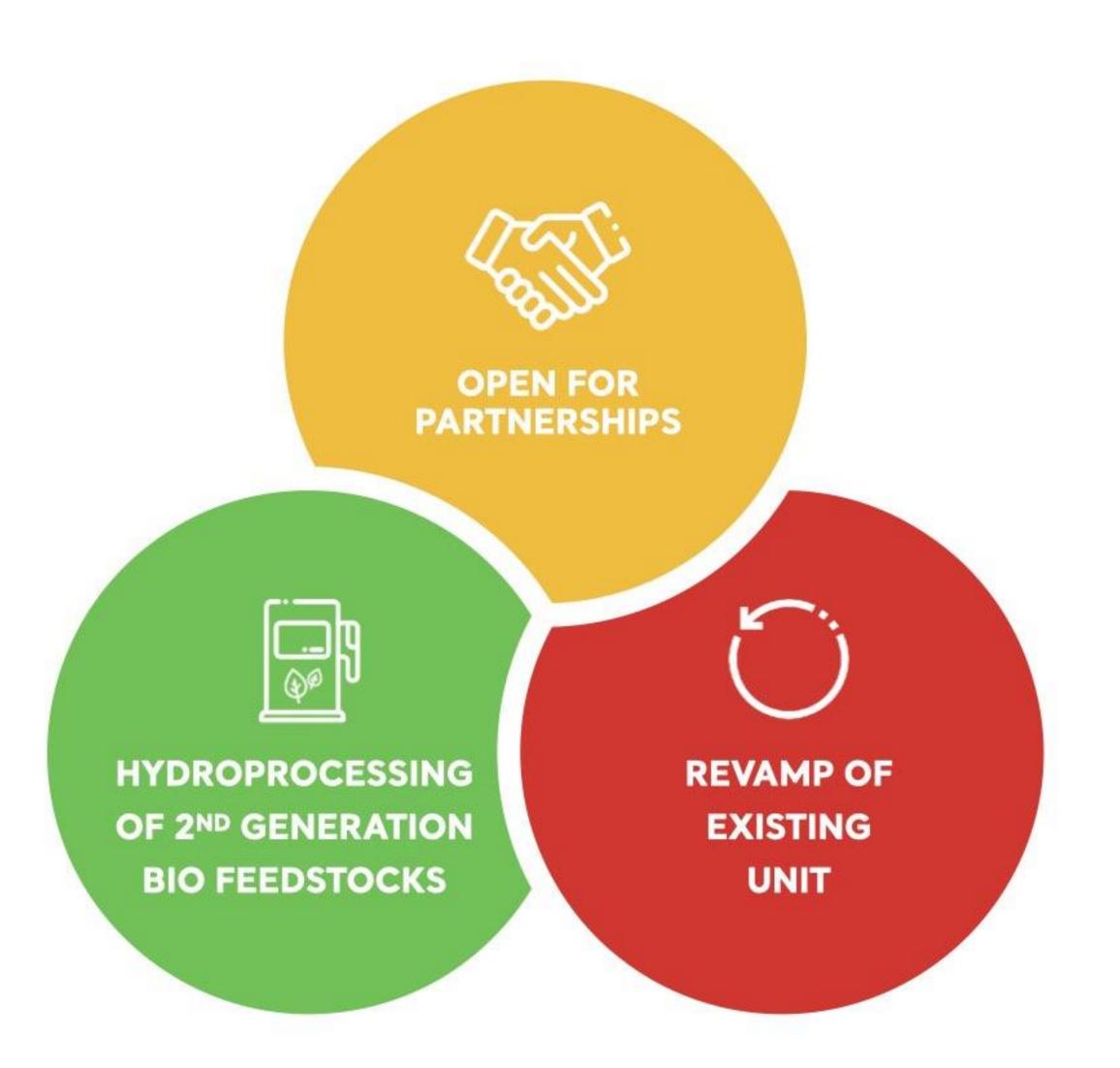
FEEDSTOCK ALTERNATIVES







BIOFUELS BUSINESS PLAN



CONVERT EXISTING UNIT IN IZMIR WITH ~\$230M CAPEX TO BE FINALIZED IN 2026

- 400 kton/year biofuel production capacity at the first stage
- ~10% of our jet fuel sales will be SAF by 2030
- Reach 75% SAF production yield in (~300 kton/year)

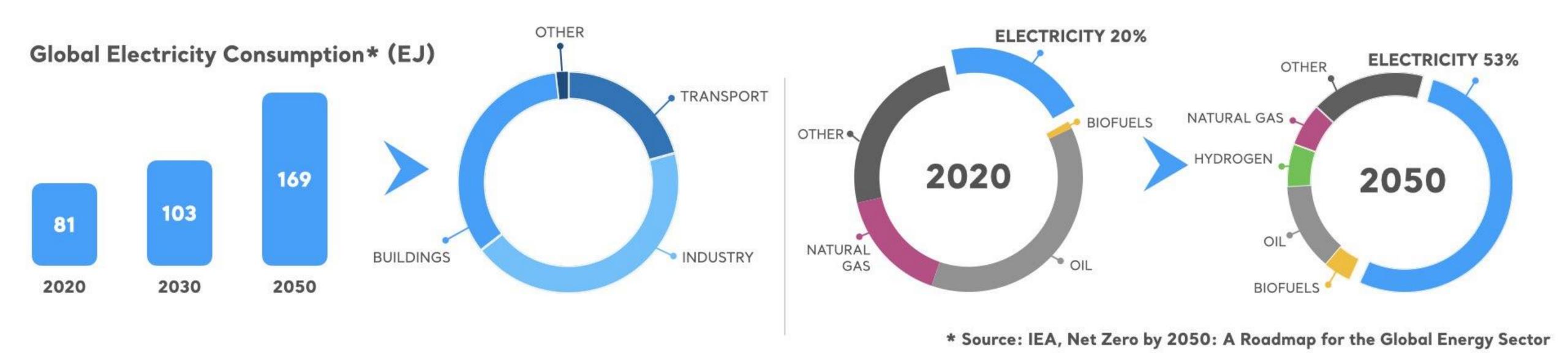
SAF PRODUCTION CAPACITY WILL TRIPLE BY 2035 WITH FRONT LOADED CAPEX



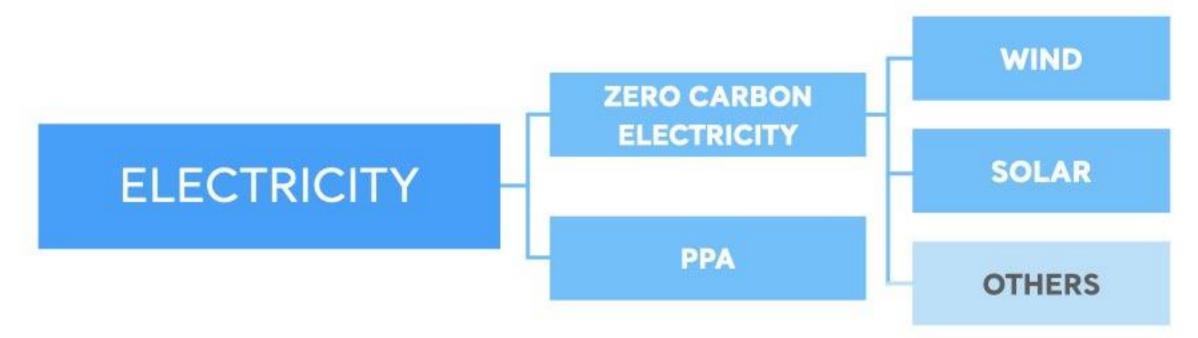


ZERO CARBON ELECTRICITY

MARKET OUTLOOK







Note: "Zero Carbon Electricity" definition includes wind, solar, hydro, wave, nuclear etc.

ZERO CARBON ELECTRICITY BUSINESS PLAN

INVESTING IN ZERO CARBON ELECTRICITY

- Use majority of zero carbon electricity to produce Green H₂ for our refinery processes and sales to heavy transportation and logistics
- Sell remaining zero carbon electricity
- Procure zero carbon electricity (~50% of total need) via PPAs to optimize capex/cogs balance





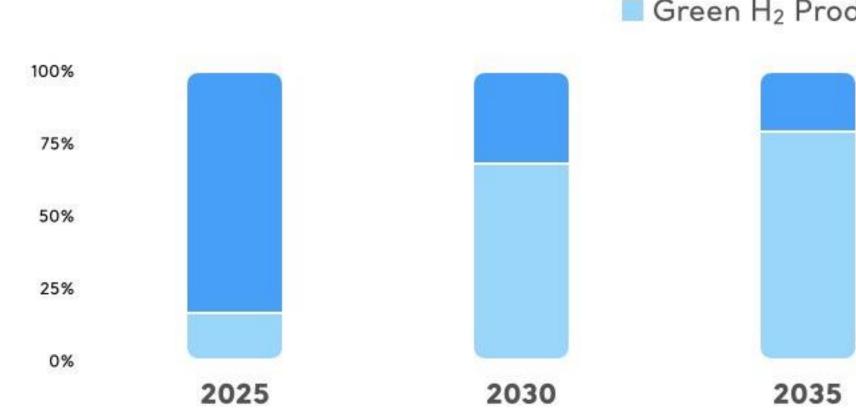
ZERO CARBON ELECTRICITY'S ROLE IN ENERGY TRANSITION

PRODUCTION OF GREEN HYDROGEN

SELLING ZERO CARBON ELECTRICITY

POWERING
OTHER CLEAN
TECHNOLOGIES







Completed study for Solar and Wind installations at our refineries (potential to install up to 300 MW)

- Installed 2 MW Solar PV to Batman In 2021, to be followed by 70 MW in Kırıkkale
- Exploring areas to reduce CO₂ emissions through electrification of refinery processes
- Main portion of profits from zero carbon electricity investments is included in integrated Green H₂ margins

INSTALLED CAPACITY

BY 2030: ~1 GW BY 2035: ~2.5 GW

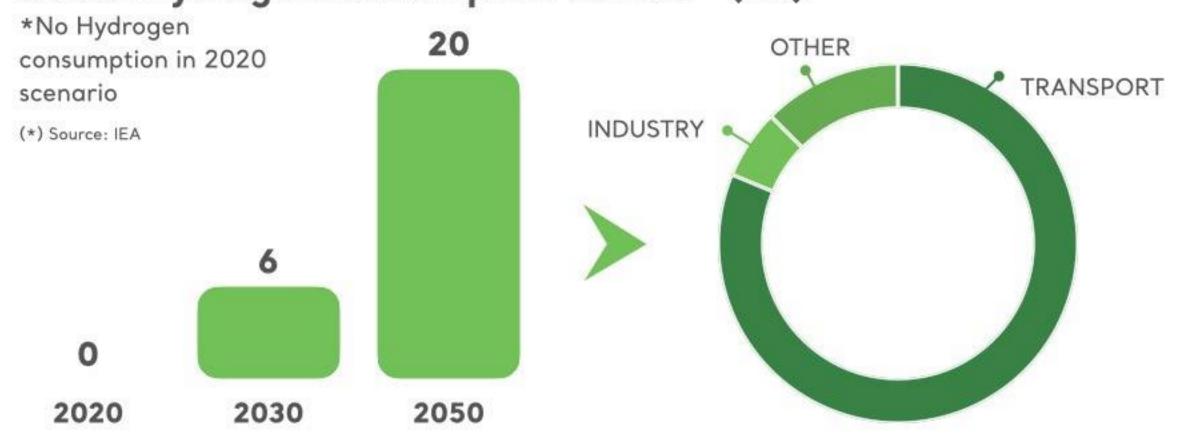


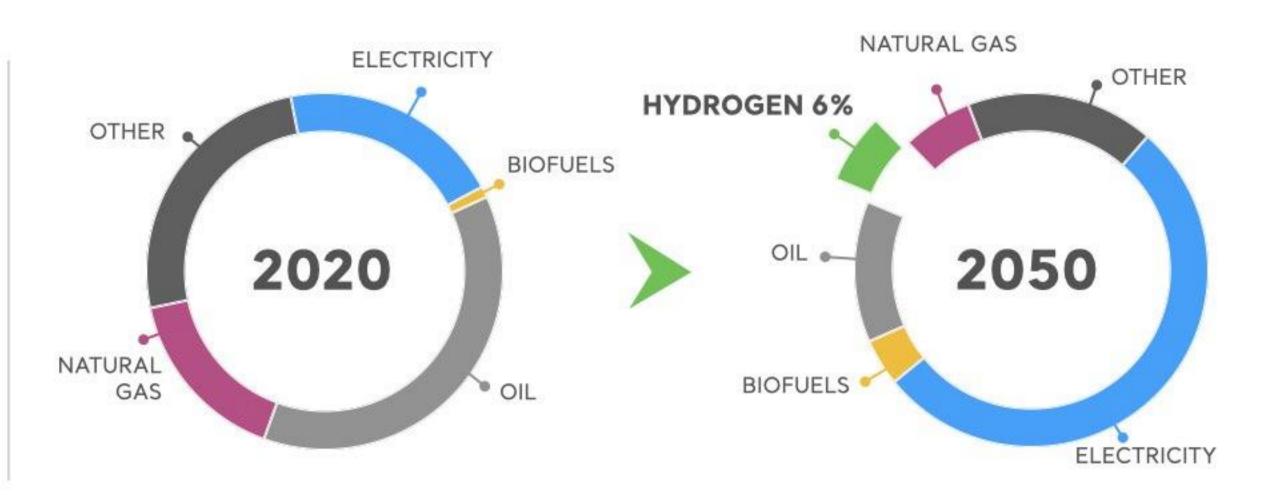


GREEN HYDROGEN

MARKET OUTLOOK

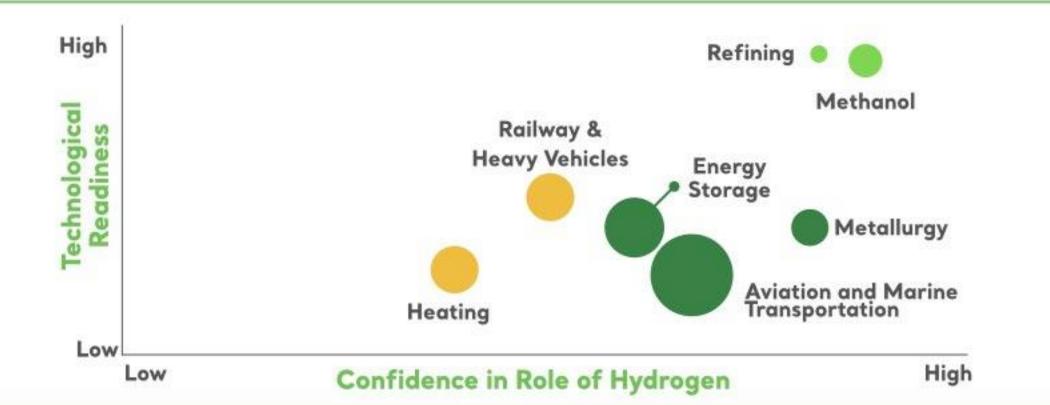
Global Hydrogen Consumption as Fuel* (EJ)





* Source: IEA, Net Zero by 2050: A Roadmap for the Global Energy Sector

POTENTIAL HYDROGEN USAGE THE USES OF
HYDROGEN WILL
ALSO BE
DIVERSIFIED WITH
ENERGY
TRANSFORMATION



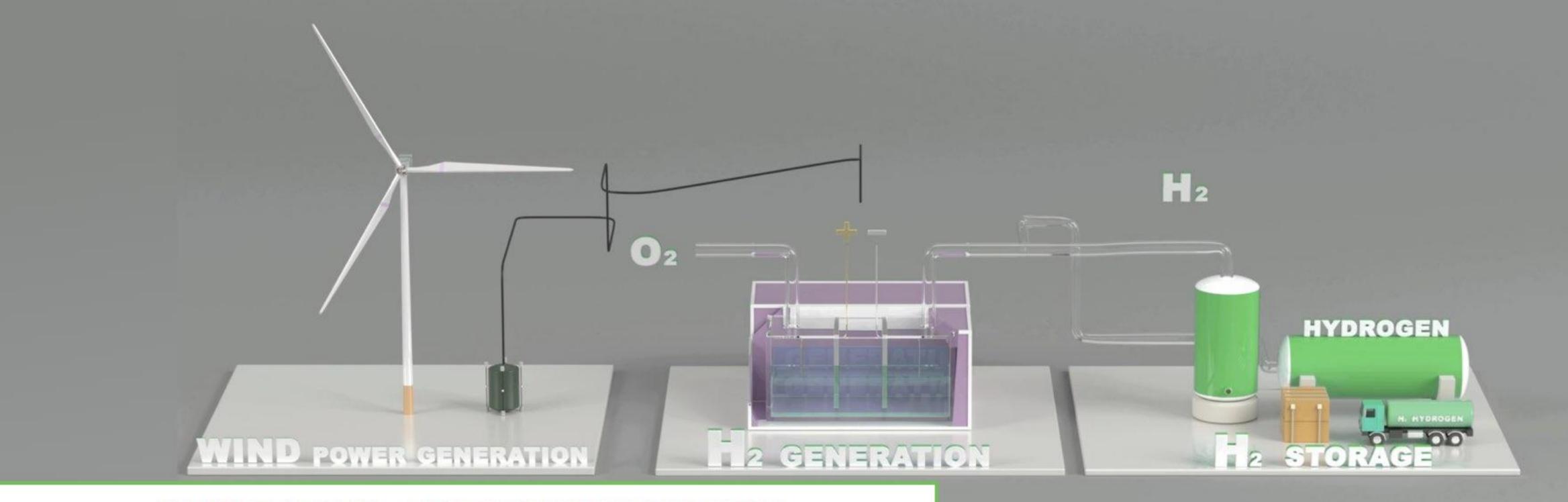
LIKELY & LARGE LONG TERM DEMAND

EXISTING USES

POTENTIAL ROLE DEPENDING
ON TECHNOLOGICAL
DEVELOPMENTS

SCALE: 100 MT DEMAND

Source: Energy Transitions Commission, Making the Hydrogen Economy Possible, 2021



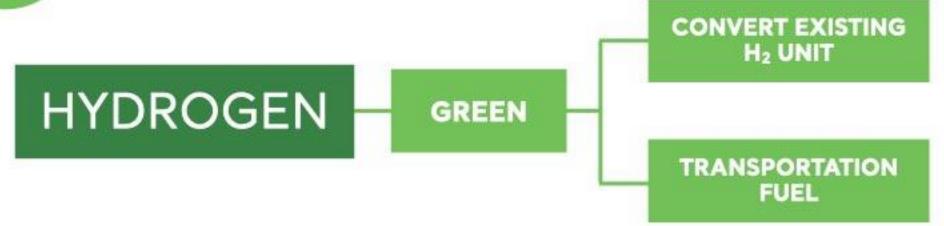
OUR FOCUS: GREEN HYDROGEN

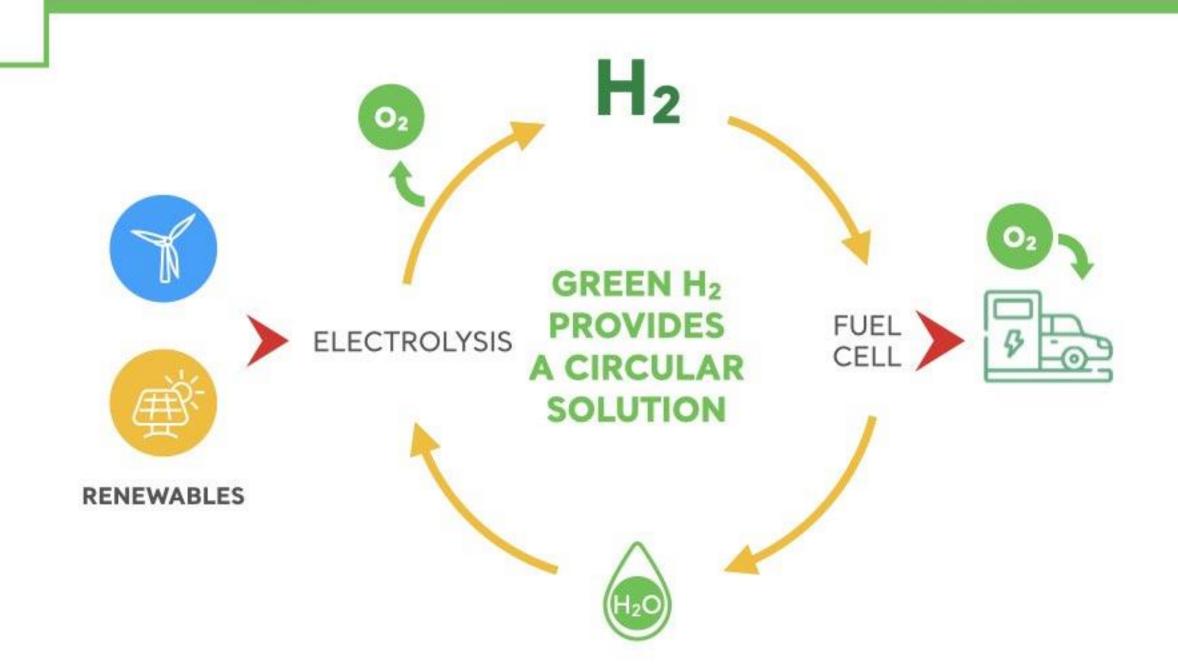


Capture opportunities in evolving markets such as heavy transportation & logistics



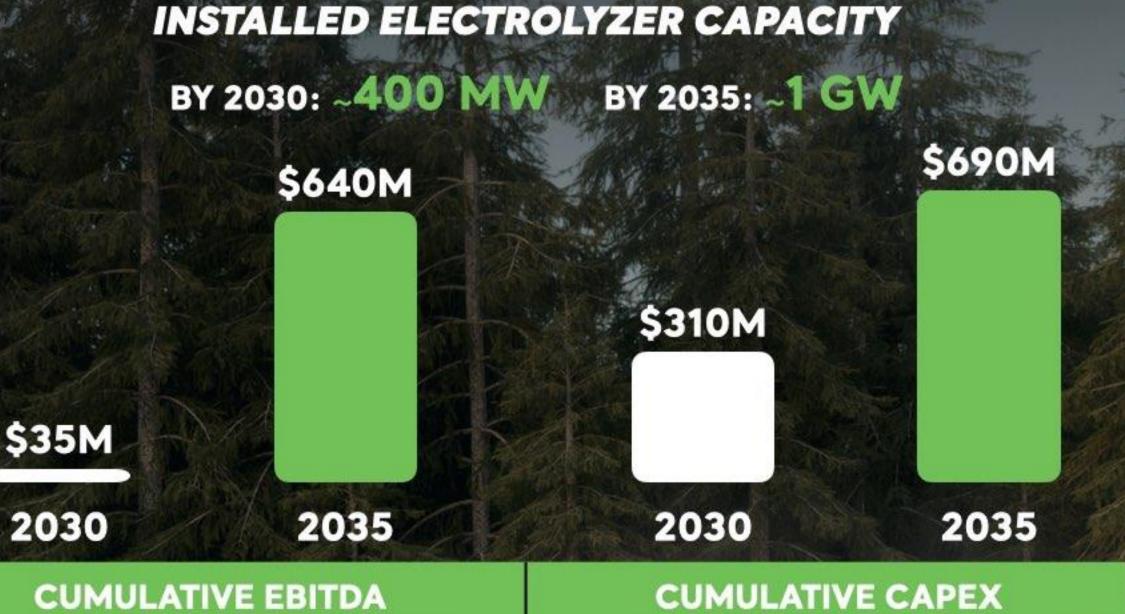
Reduce refining emissions from operations by 25% by 2040 with H₂ unit conversion





HYDROGEN BUSINESS PLAN

- Evaluating test site for a 20 MW H₂ electrolyzer, fueling station and renewables to power them
- Start selling Green H₂ to heavy transportation and logistics by 2030
- Convert all existing grey H₂ production to green by 2040







2020-2021



COOPERATION WITH EMERALD TECHNOLOGY VENTURES



2022



2023





2030

INDICATORS

- 10+ co-investments/direct investments
- Collaboration with more than 20 startups
- 5 venturing experts with the competence to invest in international startup companies

BENEFITS

- Productivity increase and cost savings with implemented startup technologies
- New market opportunities
- Business intelligence contributes to company decisions after 2030 on the path to Energy Transformation

CULTURAL TRANSFORMATION

- Business units eager to know startups & new technologies
- Business units have increased the speed of technology adoption and shortened the time to implement new technologies with an agile culture and lean initiative



DIGITALIZATION



CONNECTED

OPERATIONS

INTERCONNECTED

CONNECTED

DIGITAL

PROCESSES







VALUE ORIENTED

HIGH AUTOMATION & HIGH EFFICIENCY



OW CARBON

& EXPERIENCE





CYBER SECURITY & TECHNICAL SAFETY



BENEFIT FROM AI & MOBILITY

CREATING SKILLS OF THE FUTURE

Sustainable, Competitive & Forward Looking Tüpraş

ORGANIZATIONAL STRUCTURE

Create and deploy a lean new generation operating model, based on total business portfolio



LEADERSHIP & CULTURE

Create and implement a roadmap
for Leadership Development and
Cultural Progress to create the
future of Tüpraş





EMPLOYEE EXPERIENCE

Create Tüpraş Employee

Experience concept within the scope of the Future of Work



CAPABILITY& METHOD

Determine the capabilities that
Tüpraş should have in the future.
Create an implementation
roadmap

SOCIAL & GOVERNANCE

STRONG POLICIES HAVE BEEN EFFECTIVELY IMPLEMENTED FOR YEARS











TÜPRAŞ IS TAKING PLACE IN THESE SUSTAINABILITY INDICES









FTSE4Good



FEMALE REPRESENTATION IS THE KEY FACTOR IN OUR HR POLICIES

FEMALE REPRESENTATION IN THE BOARD OF DIRECTORS BY 2021

17%

FEMALE REPRESENTATION IN THE BOARD OF DIRECTOR IN THE NEXT 5 YEARS

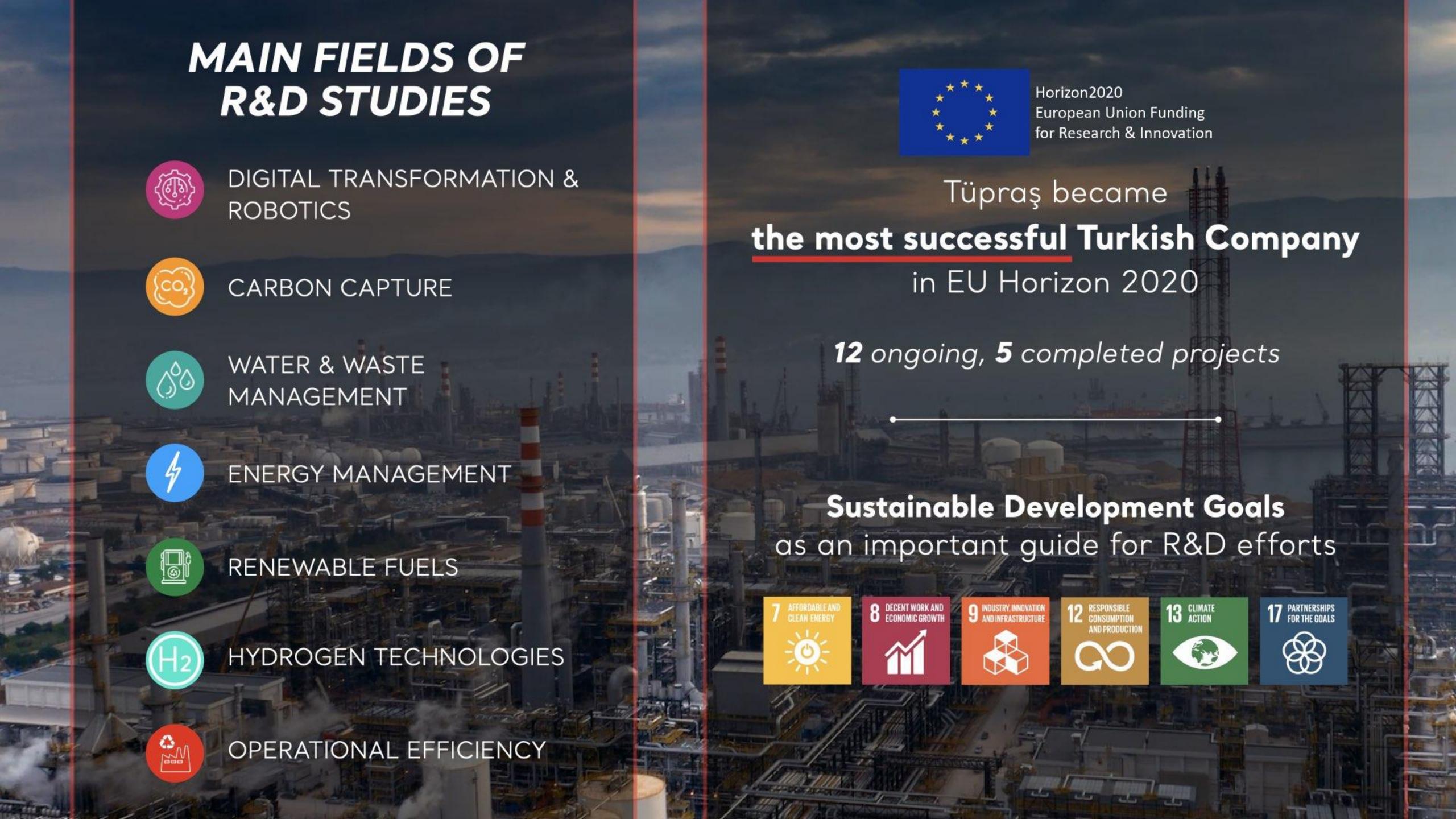
25%

FEMALE REPRESENTATION IN ALL MANAGEMENT LEVELS

24%

TARGETED RATE OF WOMEN IN NEW RECRUITMENTS

50%





We are sustainable and profitable.

Will eliminate our scope 1&2 emissions by 2050 while executing our plan and achieving these results

\$350mn average CAPEX until 2035, totaling \$5bn.

ROACE will remain above 25% creating ~\$9bn total FCF until 2035

With ample FCF, Net Debt / EBITDA will be below <2.0x

Will remain a high dividend payer, average ~ 80% dividend payout







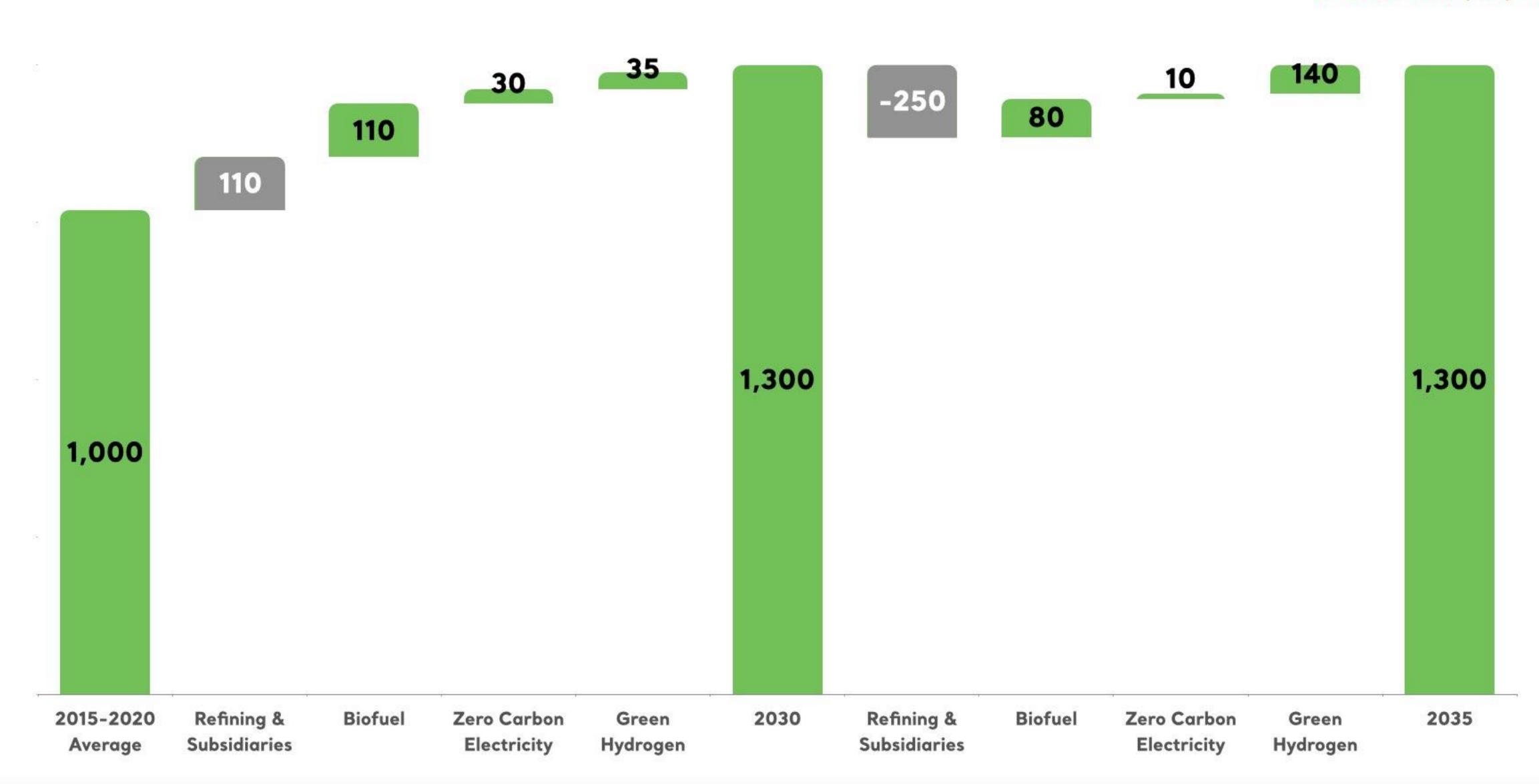




FINANCIAL TRANSITION

EBITDA

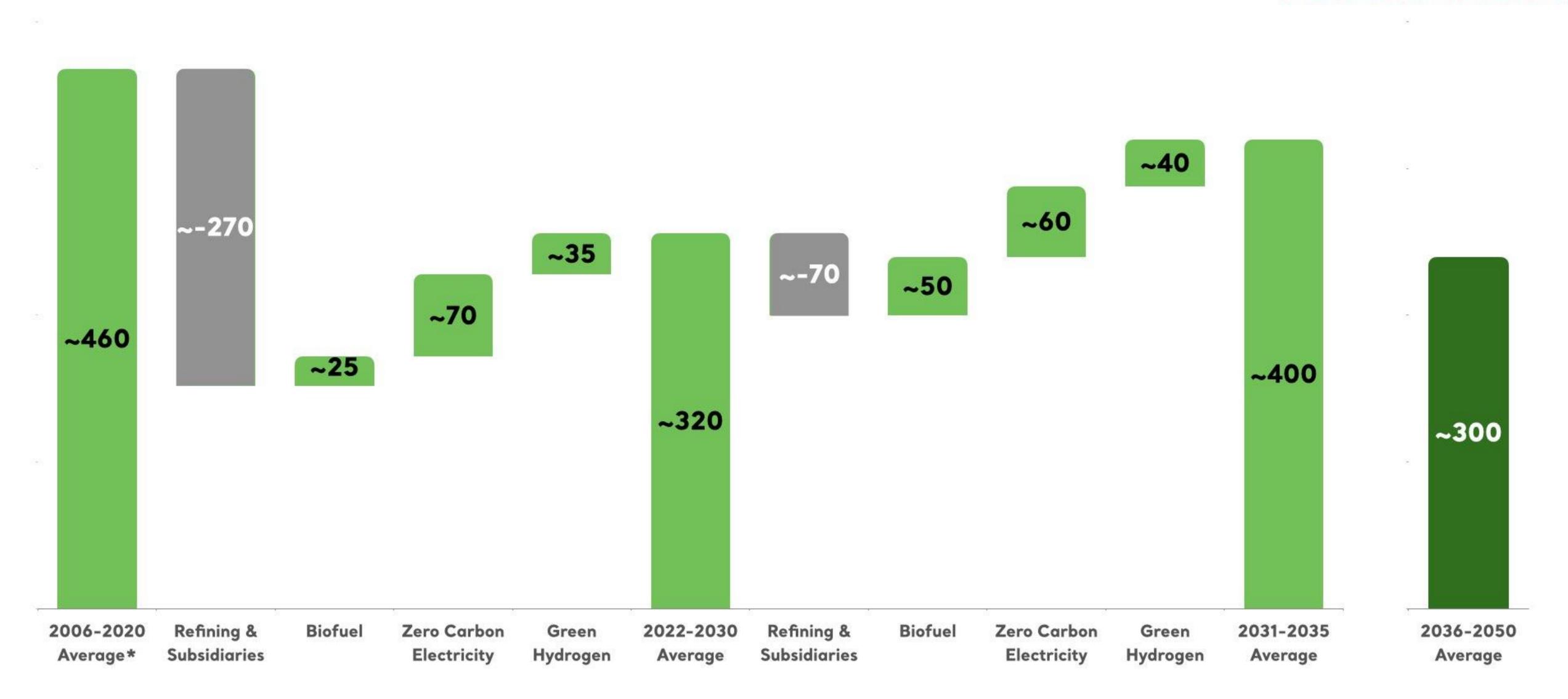
BY BUSINESS (IN \$ MILLION)



FINANCIAL TRANSITION

CAPEX

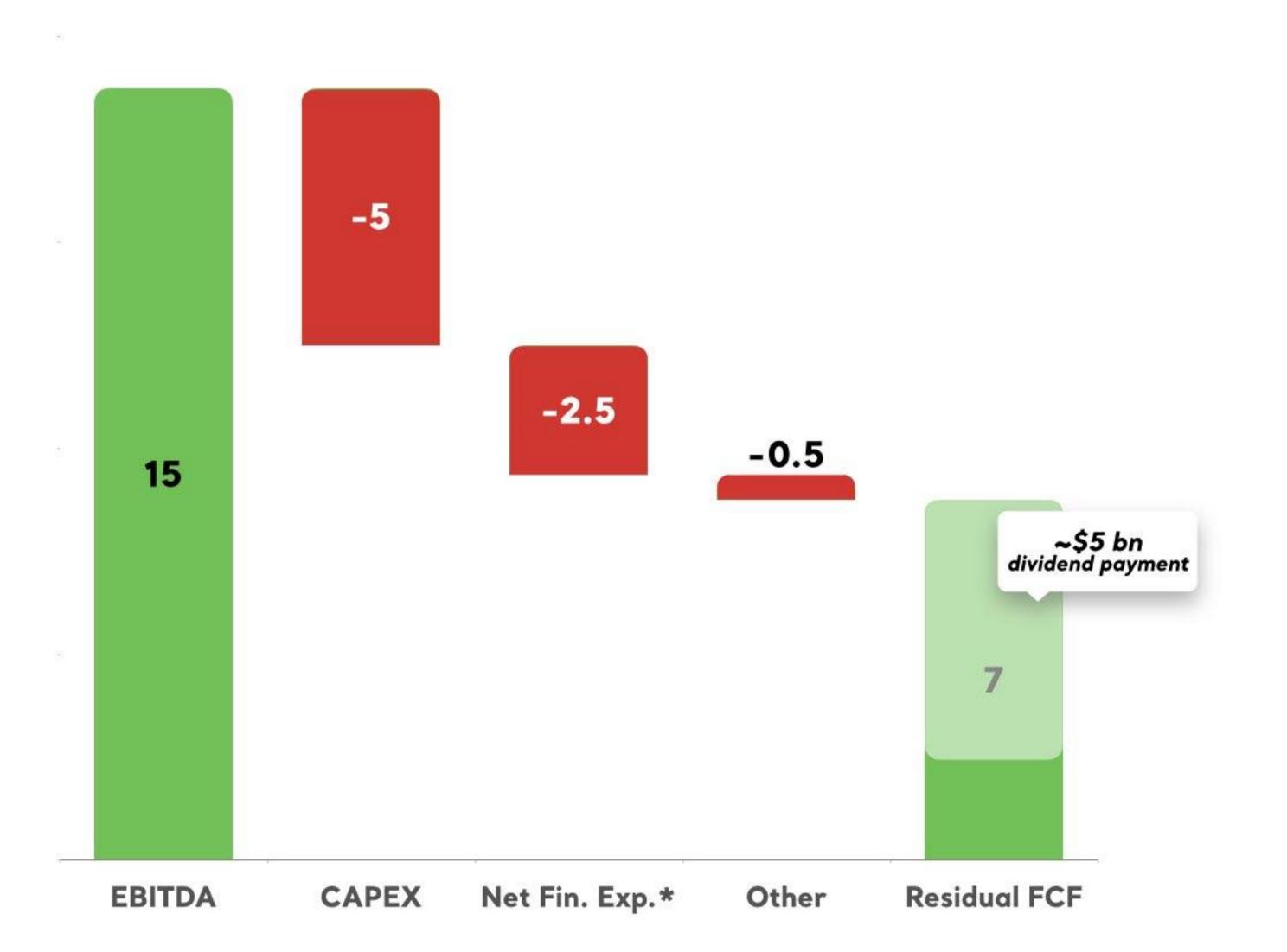
BY BUSINESS (IN \$ MILLION)



FINANCIAL TRANSITION

CUMULATIVE CASH FLOW BRIDGE

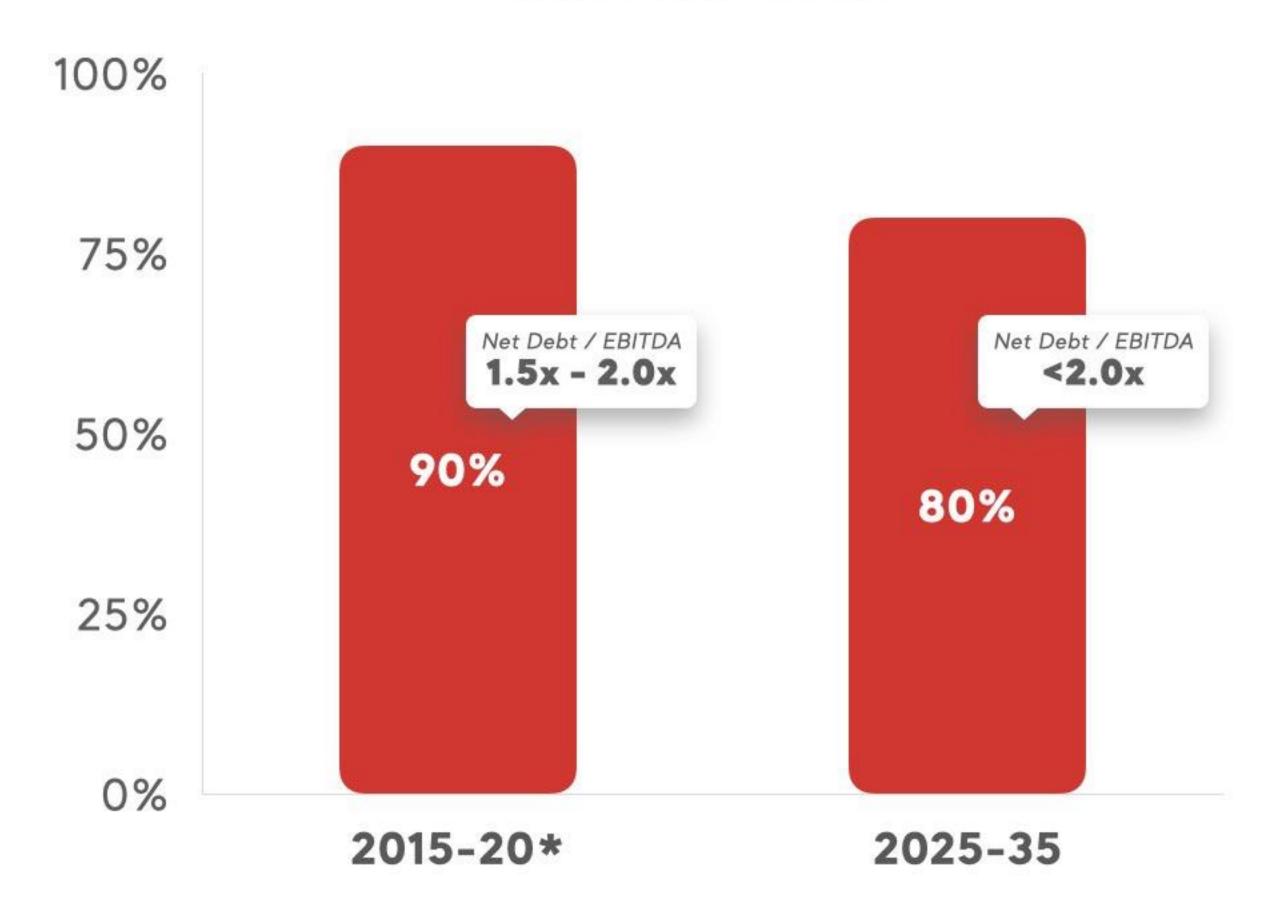
2022- 2035



SOUND FINANCIAL PLAN

- Superior EBITDA generation and disciplined CAPEX plan leads to low external funding requirement
- Strong FCF generation ensures strong dividend potential

DIVIDEND PAYOUT



Our new business model enables us to pay ~80% average dividends and we will remain as a high dividend payer

