

DISCLAIMER

This presentation contains forward-looking statements that reflect the company management's current views with respect to certain future events.

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.

Neither Tüpraş nor any of its directors, managers or employees nor any other person shall have any liability whatsoever for any loss arising from use of this presentation.





EUROPE'S 7TH
WORLD'S 30TH
LARGEST REFINING COMPANY

\$ 7 BILLION INVESTMENT

4 REFINERIES

30 MILLION TON CAPACITY

75% REFINING CAPACITY* OF TURKEY

AMONG **LARGEST** EXPORTERS
OF TURKEY

* SOURCE: EMRA





51% MARKET SHARE*
IN TURKEY

57% TOTAL STORAGE CAPACITY

WITH OPET

ONE OF THE

MOST COMPLEX REFINERIES

OF THE MEDITERRANEAN REGION

\$ 7 BILLION (SINCE ACQUISITION)
SOLID DIVIDEND PAYER

* SOURCE: EMRA





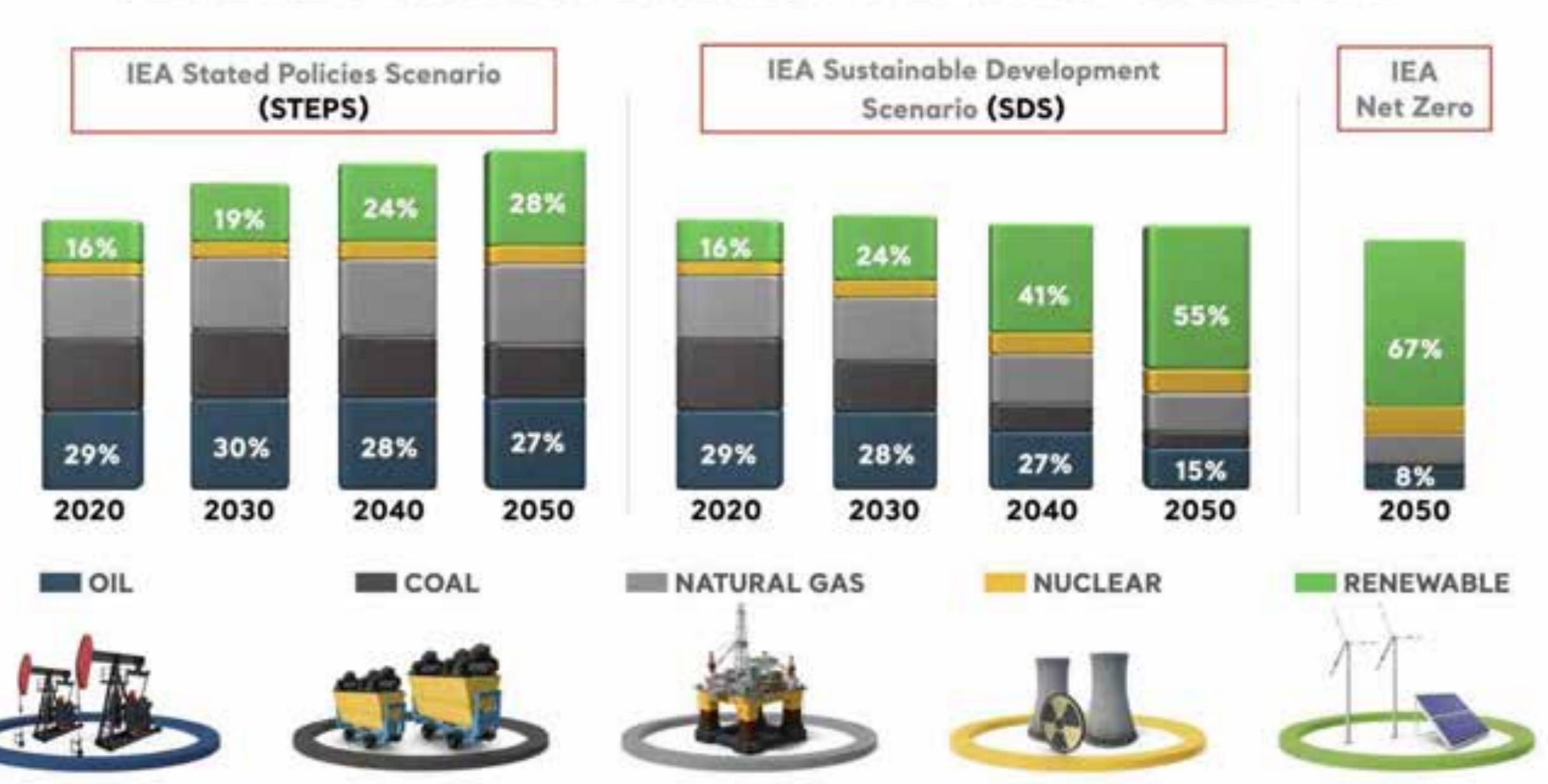




WE WILL LEAD TURKEY'S ENERGY TRANSFORMATION, BY CREATING A DIVERSIFIED PORTFOLIO



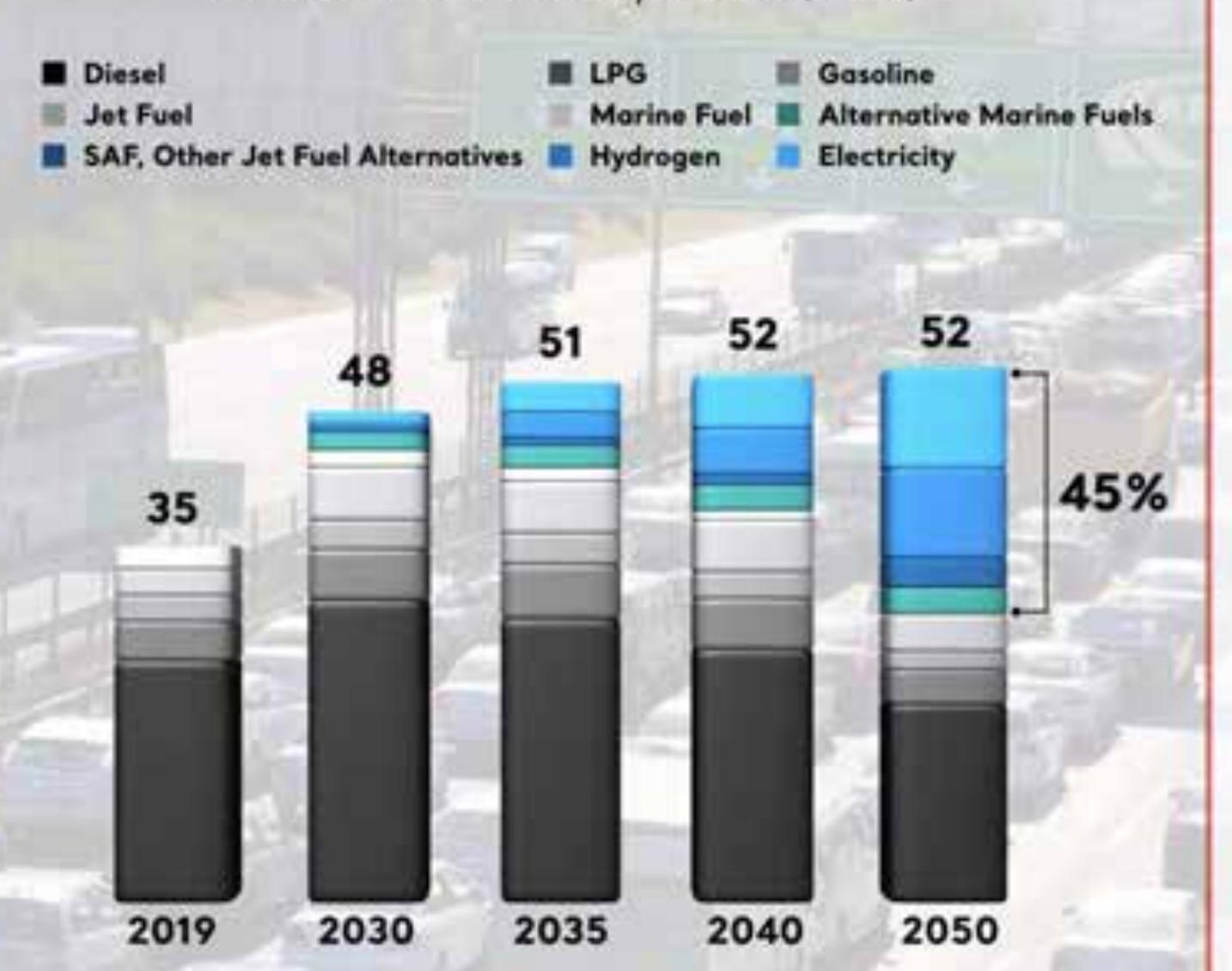
GLOBAL PRIMARY ENERGY DEMAND OUTLOOK





Turkey's Transportation Energy Demand

in million tonnes of oil equivalent (mtoe)



Source: Tuprus Projections

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



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

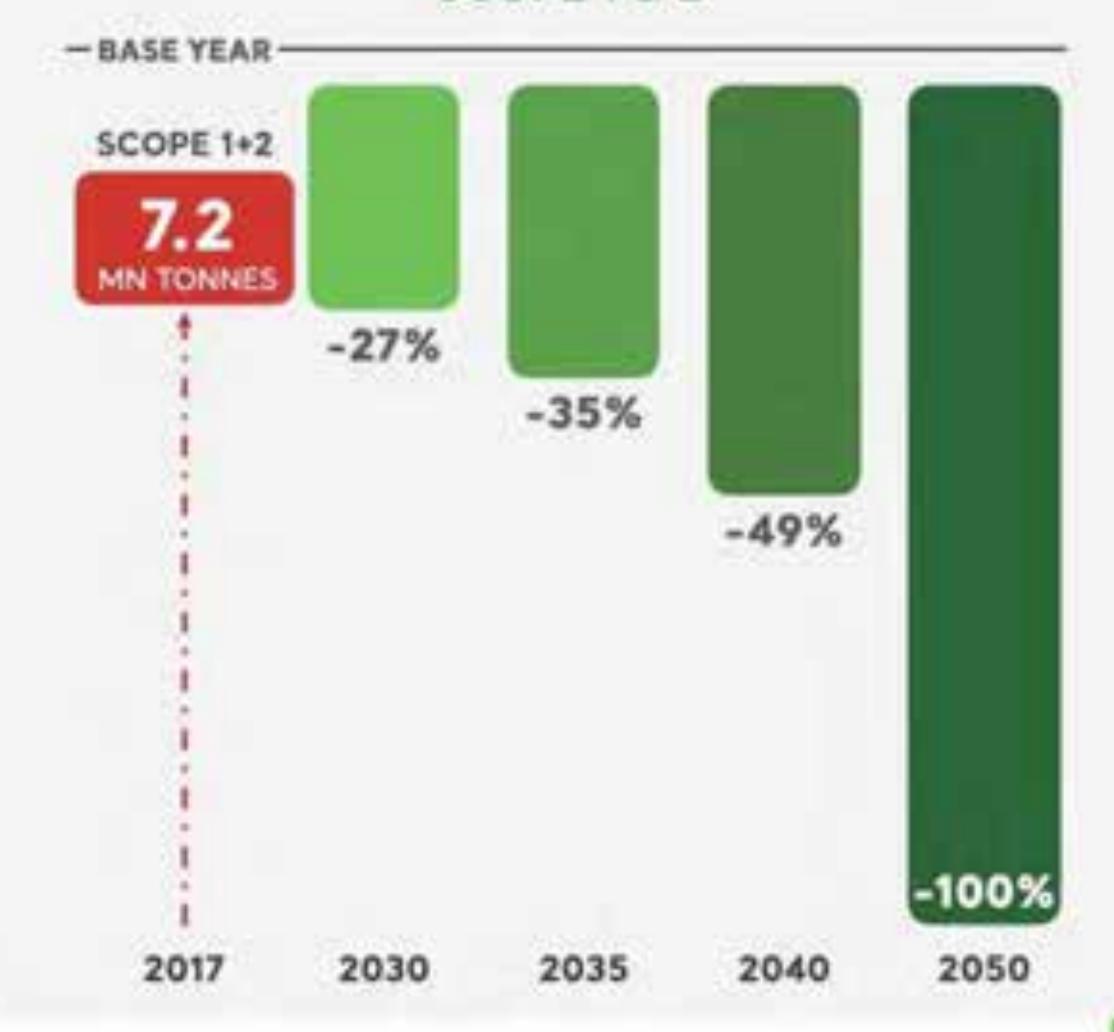
~80%



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



BIOFUELS



ZERO CARBON ELECTRICITY



GREEN HYDROGEN



SUSTAINABLE REFINING







DECARBONIZATION PROJECTS

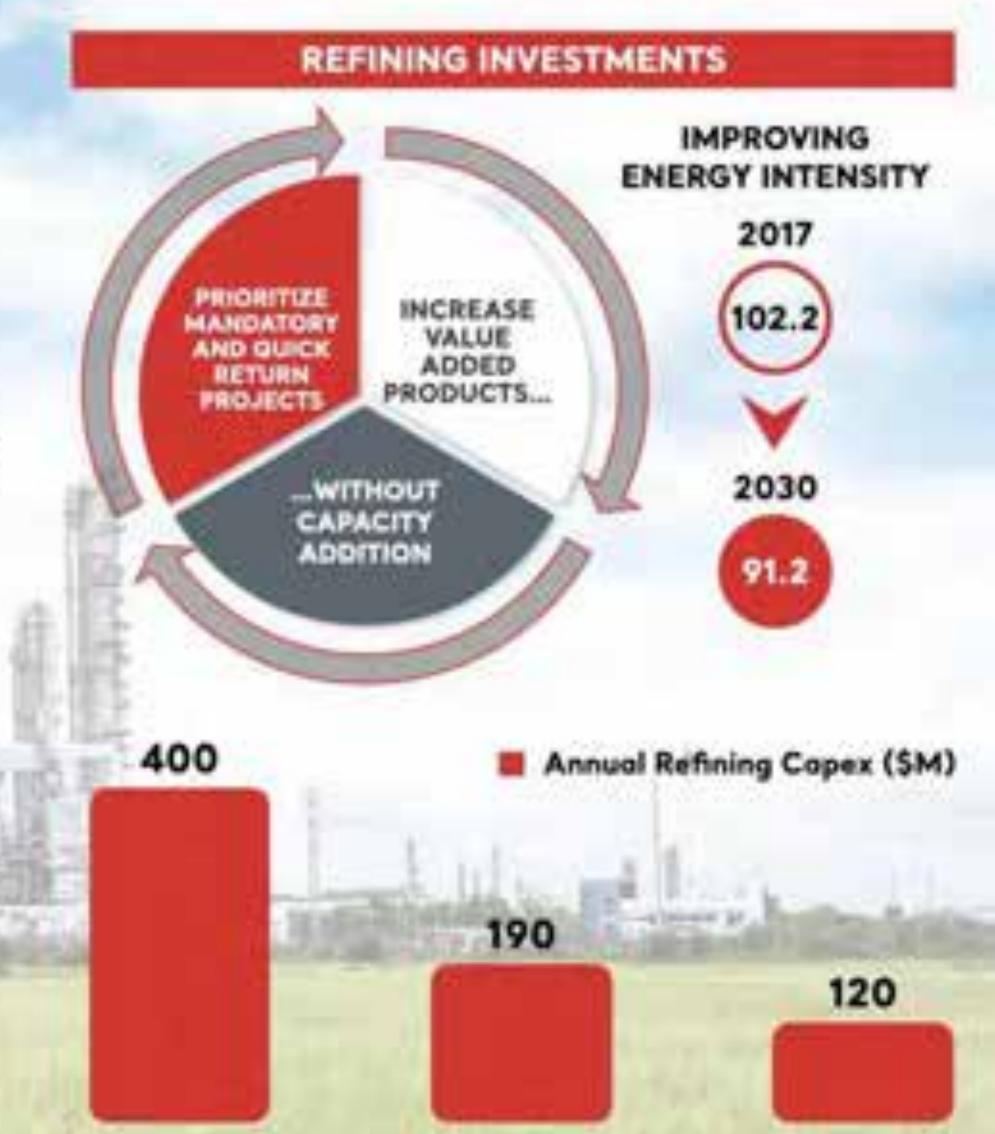
~\$2.3BN CAPEX ~\$13BN EBITDA**

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

DIVERSIFY PRODUCT PORTFOLIO THROUGH

IMPROVE REFINING PROFITABILITY

REDUCE SCOPE 1 & 2 EMISSIONS



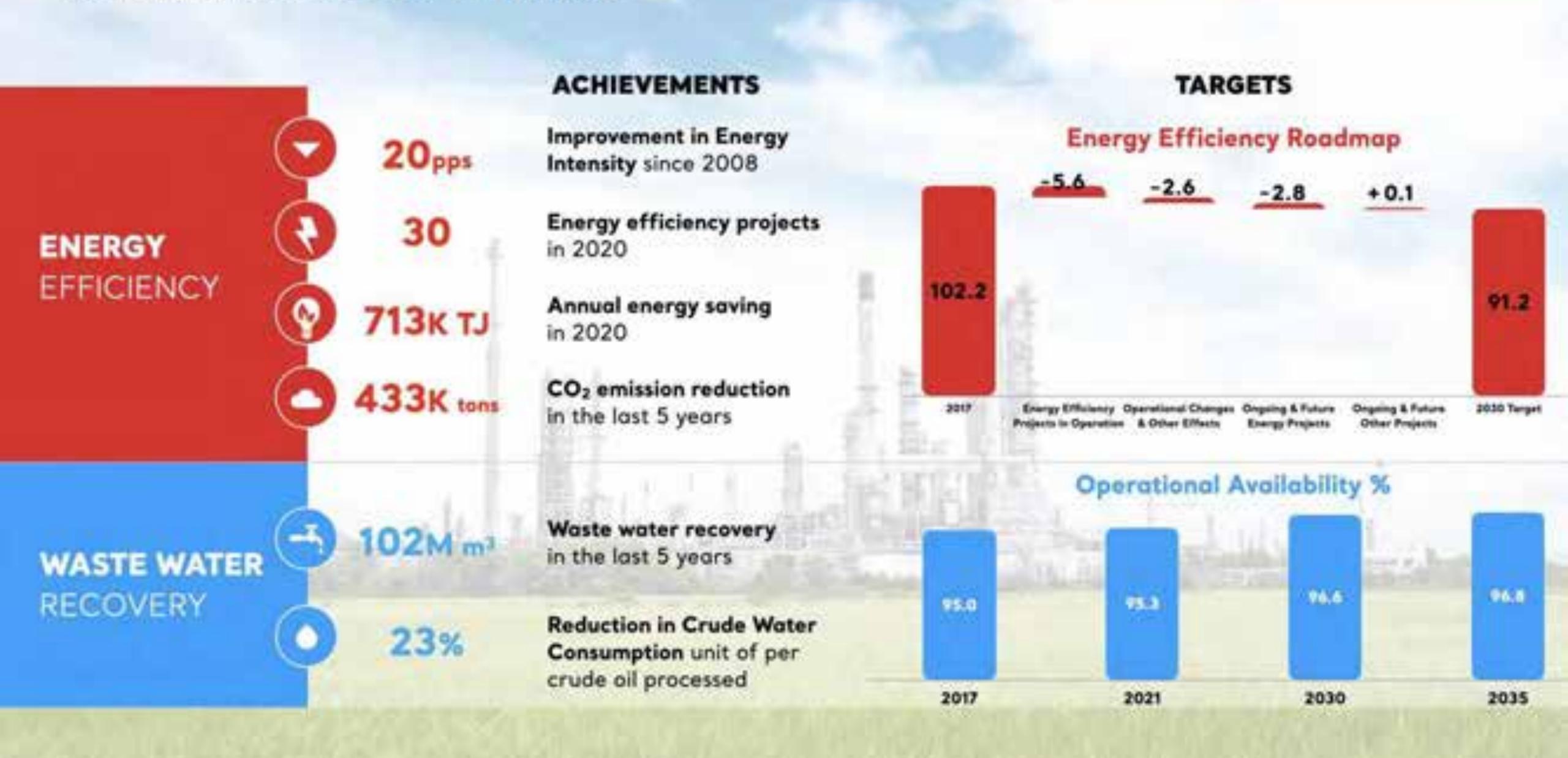
2022-2030

2031-2035

* Includes \$3,2 Billion RUP Investment

2006-2020*

SUSTAINABLE REFINING





BIOFUELS

MARKET OUTLOOK



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

BIOFUELS

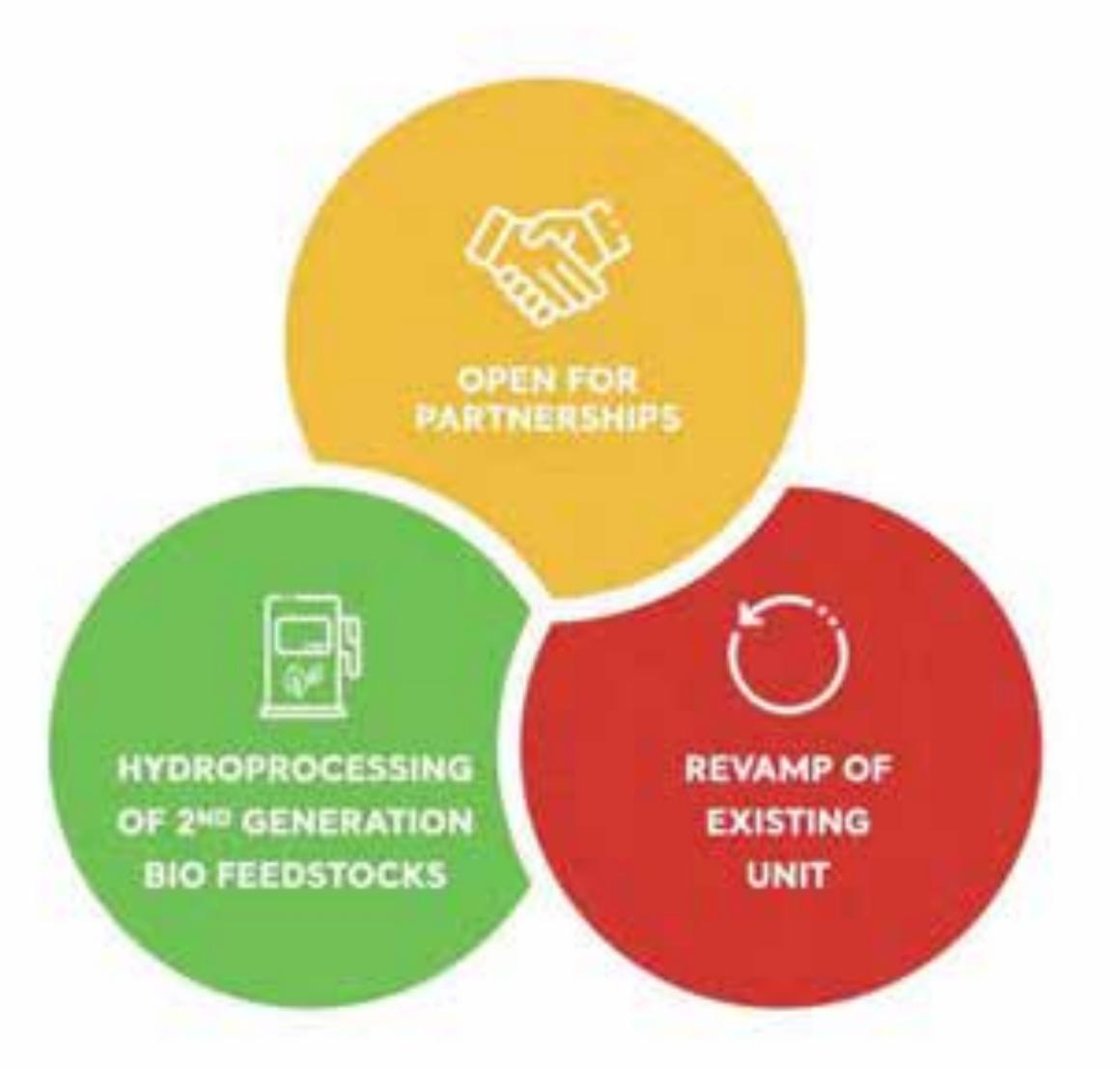
BIOLDO/BIONAPHTHA

BIODRESEL/HIVO

FEEDSTOCK ALTERNATIVES 349 GEN. THE GEN. 2140 GEN. BIOFUELS BIOFUELS BIOFUELS NON-FOOD ALGAE AND FOOD-BASED RENEWABLE SPECIALLY AGRICULTURAL RESOURCES AND PRODUCED PRODUCTS WASTE BIOMASS



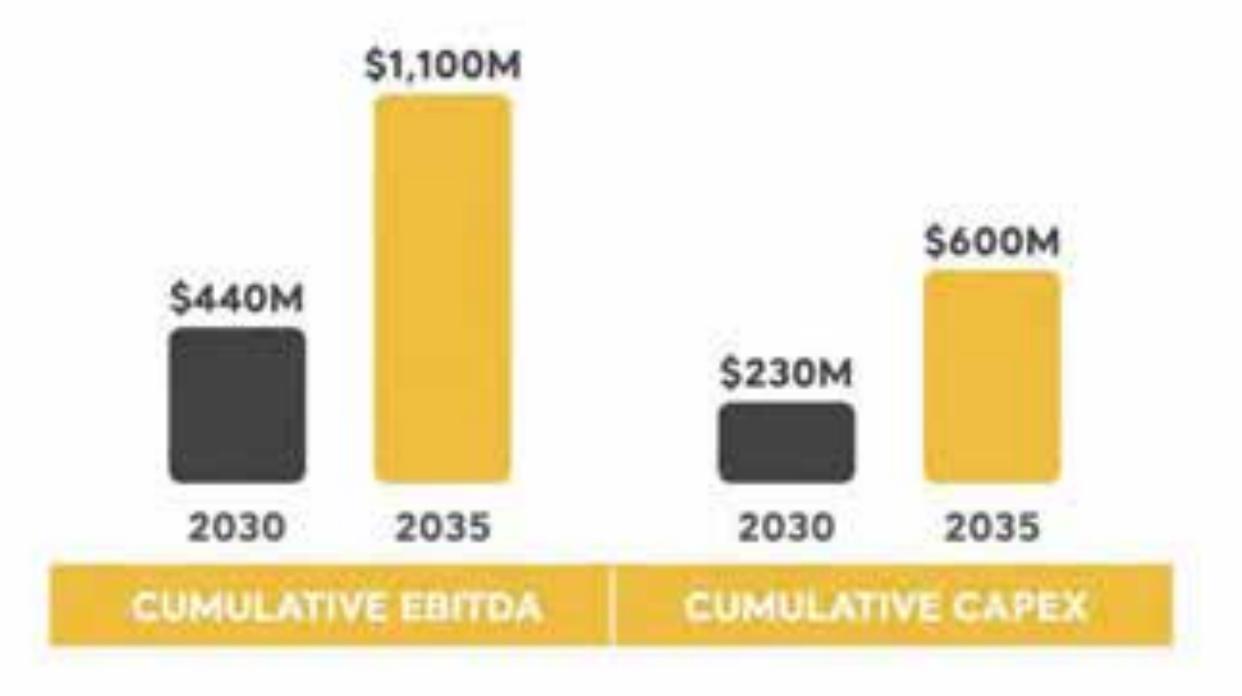
BIOFUELS BUSINESS PLAN



-\$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)

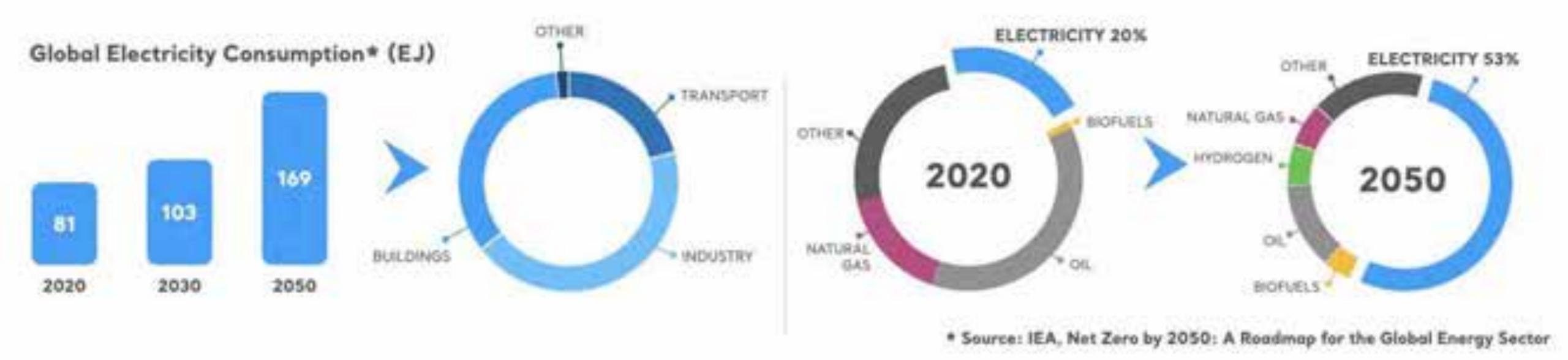
SAF PRODUCTION CAPACITY WILL TRIPLE BY 2035 WITH FRONT LOADED CAPEX

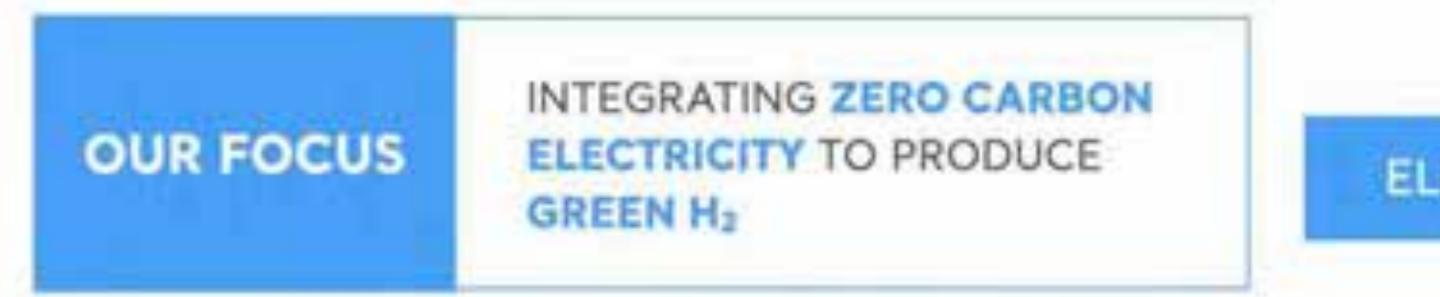


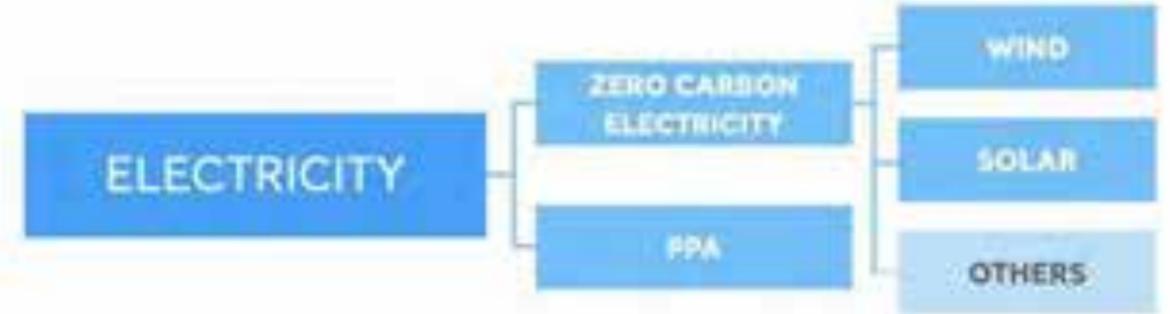


ZERO CARBON ELECTRICITY

MARKET OUTLOOK





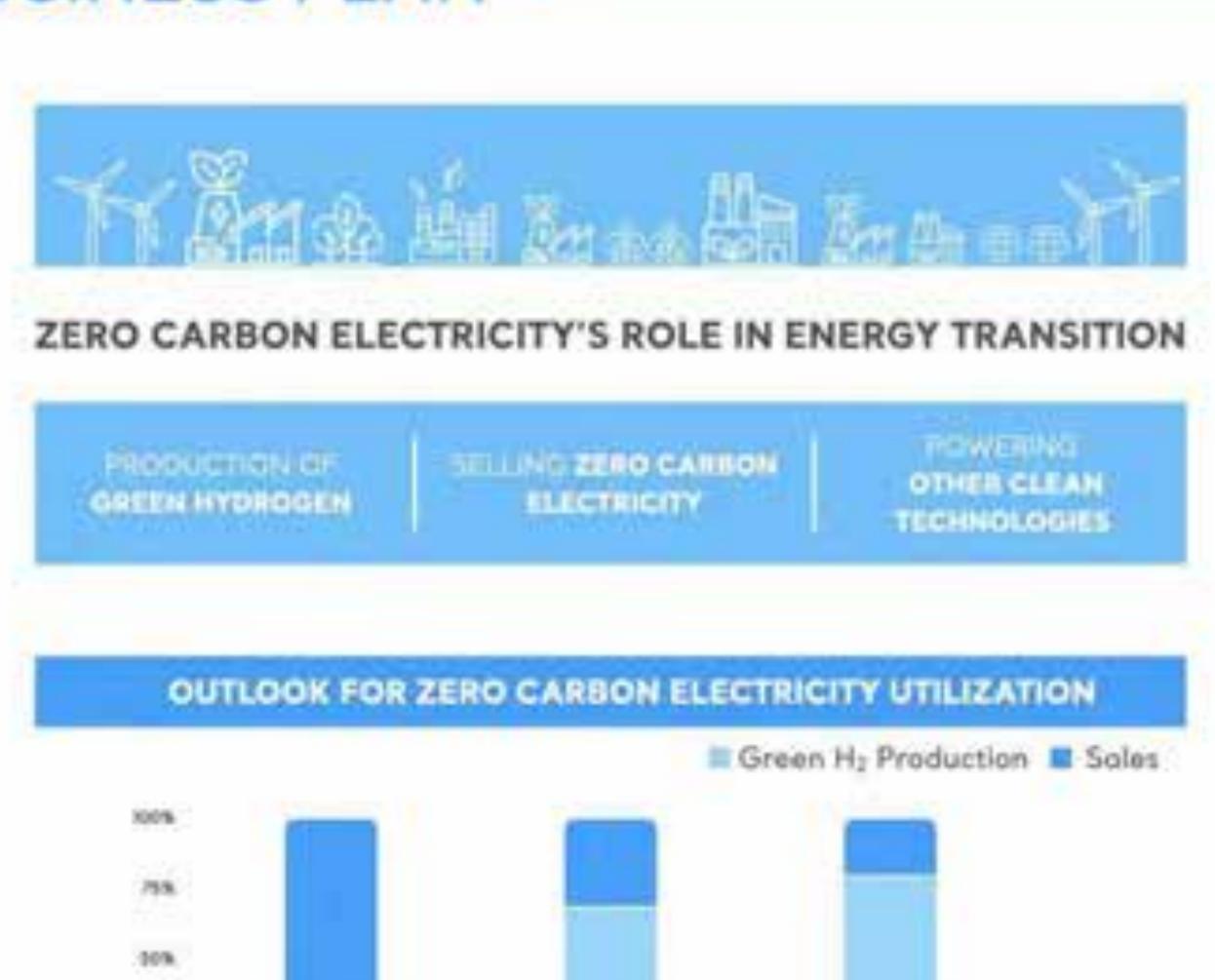


ZERO CARBON ELECTRICITY BUSINESS PLAN

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





2030

2035

214

DK.

2025

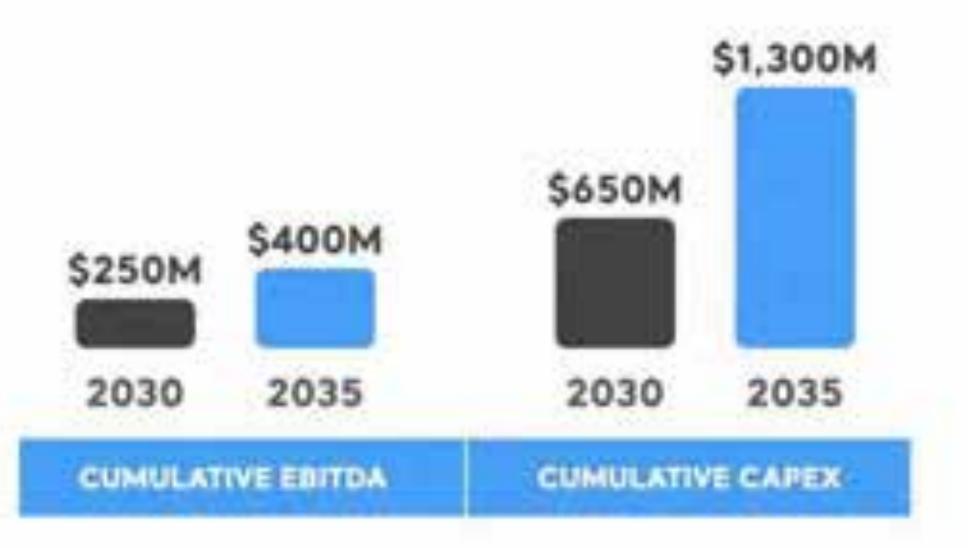


Completed study for Solar and Wind installations at our refineries (potential to install up to 300 MW)

- 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

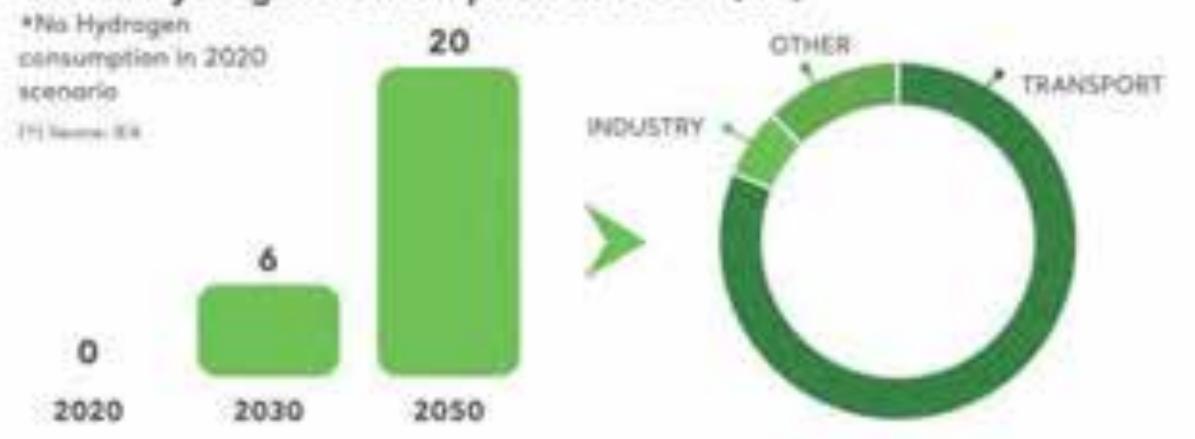


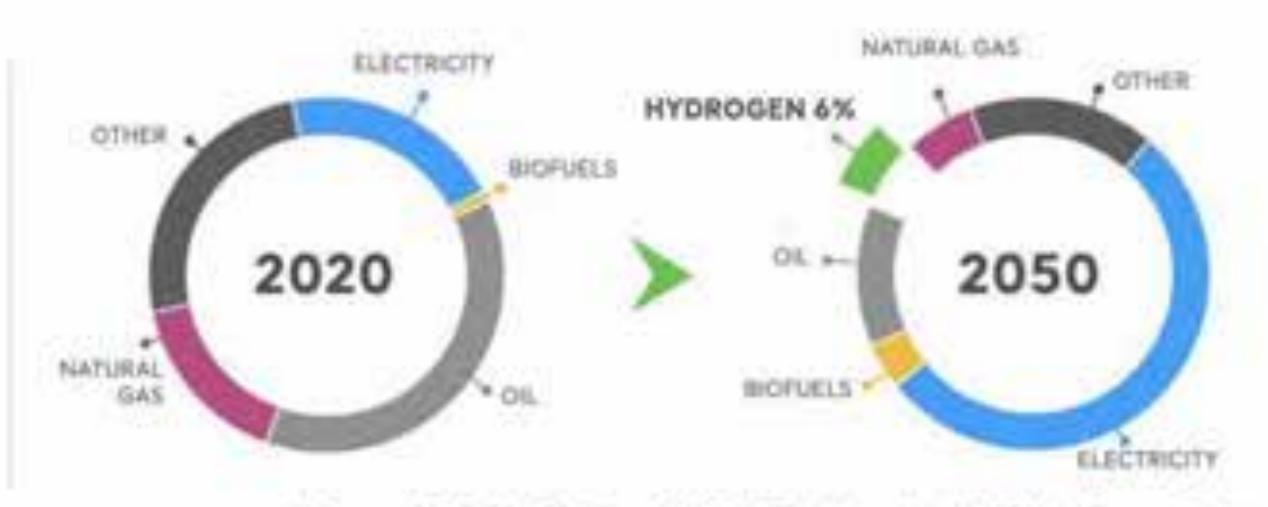


GREEN HYDROGEN

MARKET OUTLOOK



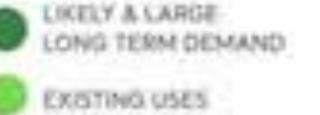


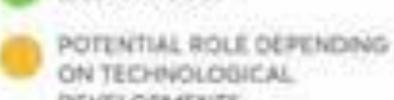


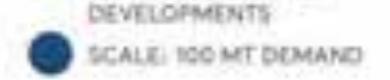
* Source: IEA, Net Zero by 2050: A Roadmap for the Global Energy Sector

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

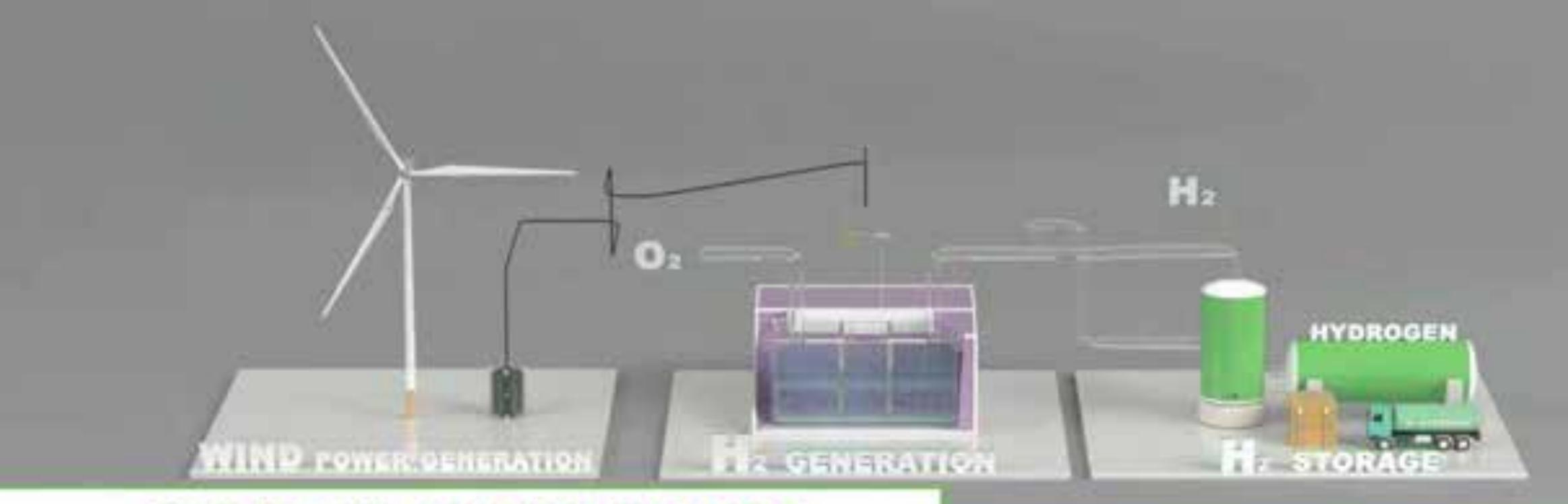








Savere: Energy Transitions Commission. Musking the Hydrogen Economy Founds. 2021



OUR FOCUS: GREEN HYDROGEN

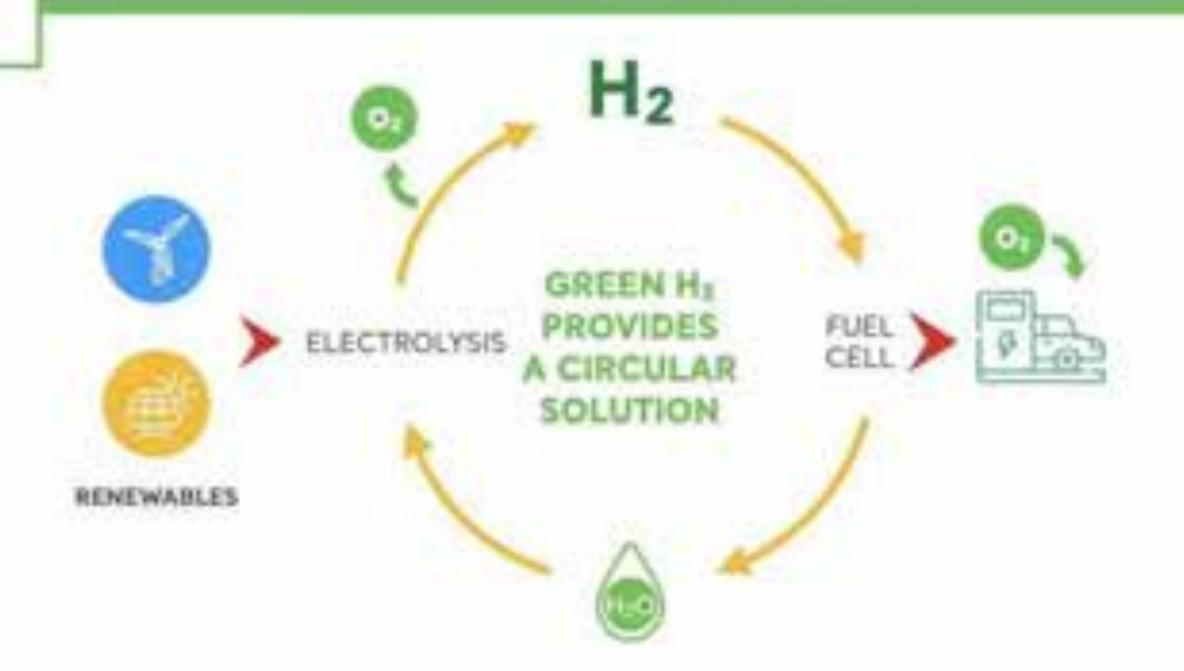


Capture opportunities in evolving markets such as heavy transportation & logistics



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

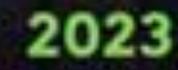


COOPERATION WITH EMERALD TECHNOLOGY VENTURES



CO-INVESTMENT EVALUATIONS WITH VC'S & ENERGY COMPANIES

2022







COLLABORATION WITH NEW TECHNOLOGY STARTUPS IN THE U.S.

> \$ 50 MILLION ALLOCATED

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 DIGITAL **PROCESSES**



OPERATIONAL TRANSPARENCY

SAFE



LOW CARBON



VALUE ORIENTED

HIGH AUTOMATION & HIGH EFFICIENCY



EMPLOYEE EFFICIENCY & EXPERIENCE

LOW CARBON



CYBER SECURITY & TECHNICAL SAFETY



BENEFIT FROM AI & MOBILITY

CREATING SKILLS OF THE FUTURE

Sustainable, Competitive & Forward Looking Tüpraş

ORGANIZATIONAL

Greate and deploy a lean new generation operating model, based on total business partfolio



LEADERSHIP & CULTURE

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





EXPERIENCE

Experience concept within the scope of the Future of Work



& METHOD

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%

MAIN FIELDS OF R&D STUDIES



DIGITAL TRANSFORMATION & ROBOTICS



CARBON CAPTURE



WATER & WASTE MANAGEMENT



ENERGY MANAGEMENT



RENEWABLE FUELS



HYDROGEN TECHNOLOGIES



OPERATIONAL EFFICIENCY



Horizon 2020 European Union Funding for Research & Innovation

Tüpraş became

the most successful Turkish Company in EU Horizon 2020

12 ongoing, 5 completed projects

Sustainable Development Goals as an important guide for R&D efforts















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







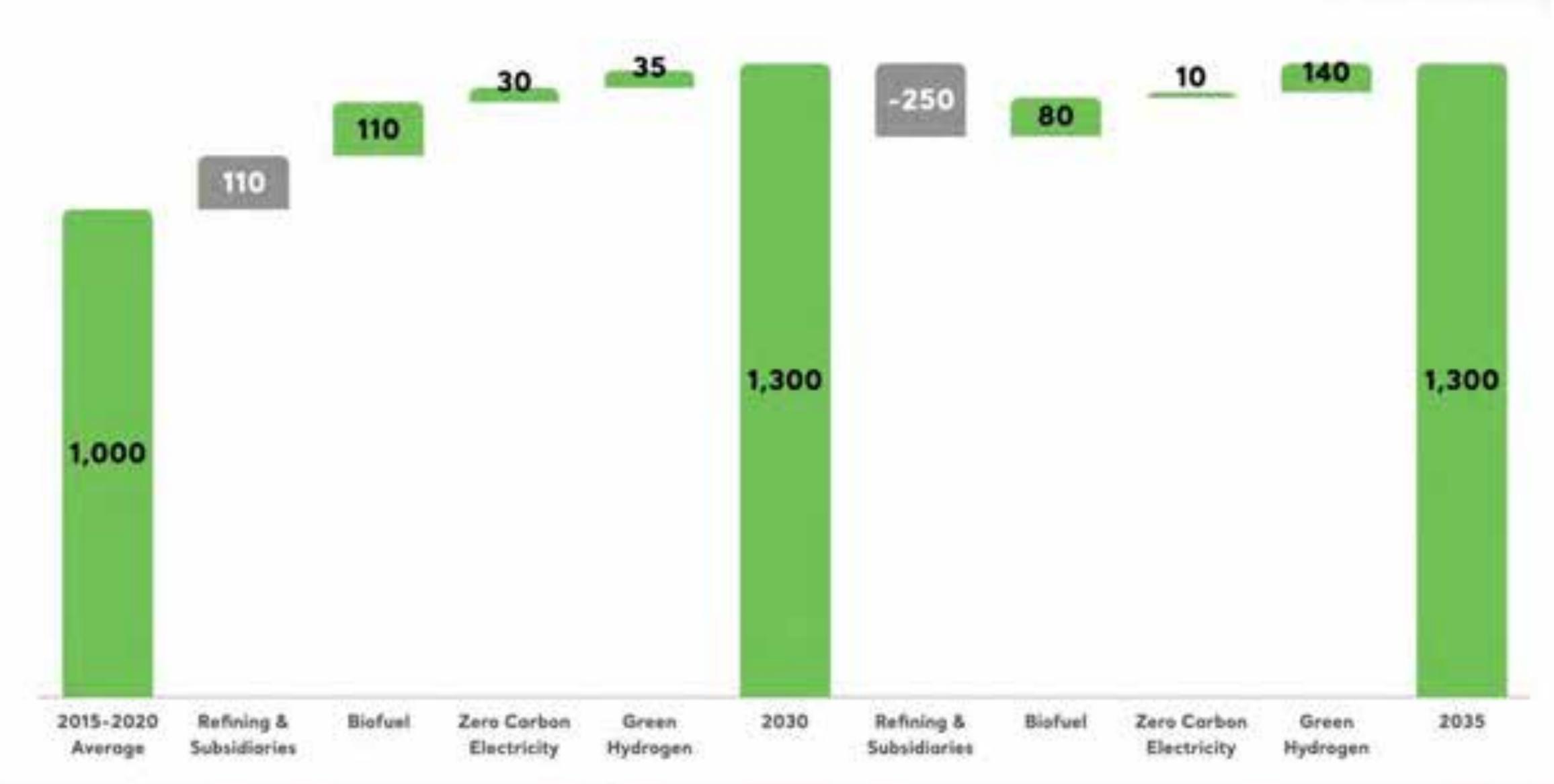




FINANCIAL TRANSITION

EBITDA

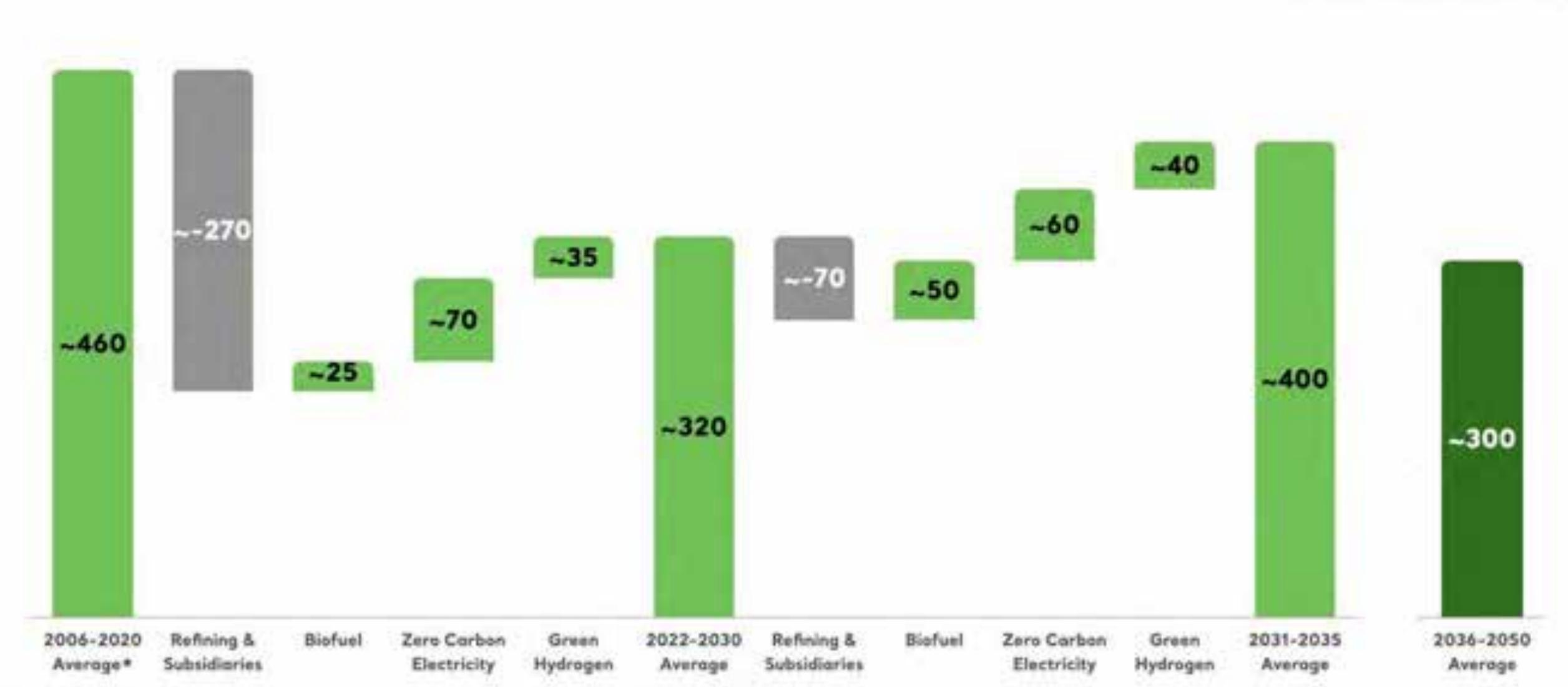




FINANCIAL TRANSITION

CAPEX

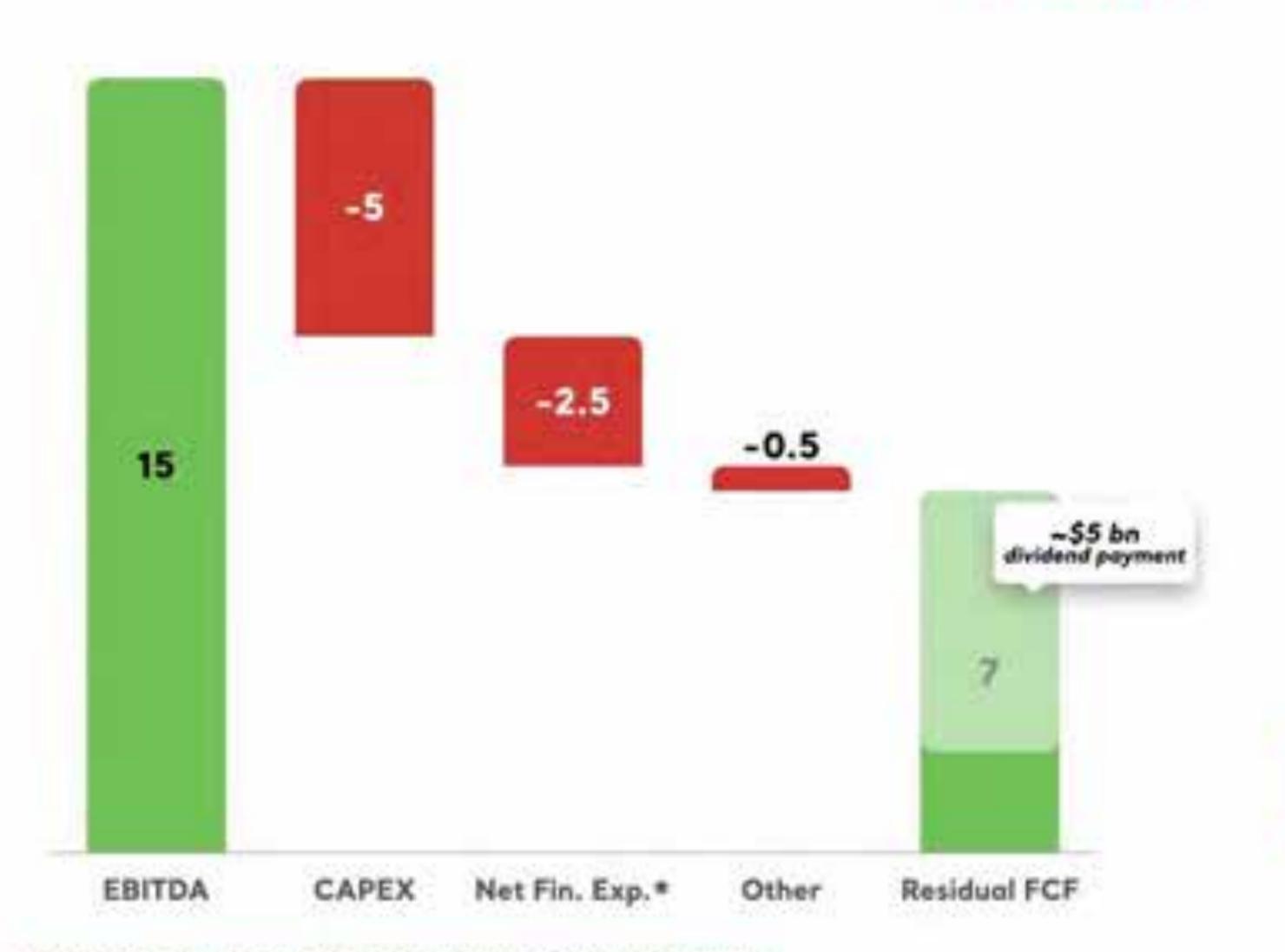
BY BUSINESS (IN S MILLION)



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

Consists of net additional funding and related financial expenses

DIVIDEND PAYOUT



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

