

The logo for EQTEC, featuring the letters 'EQTEC' in a bold, white, sans-serif font. The 'E' and 'Q' are connected, and there is a small 'TM' trademark symbol to the right. The background is a blue-tinted photograph of an industrial facility with a complex network of pipes and structural steel.

EQTEC™

Beyond fossil fuel

**Carbon-negative, baseload energy and biofuels
for energy security and independence**

May 2022

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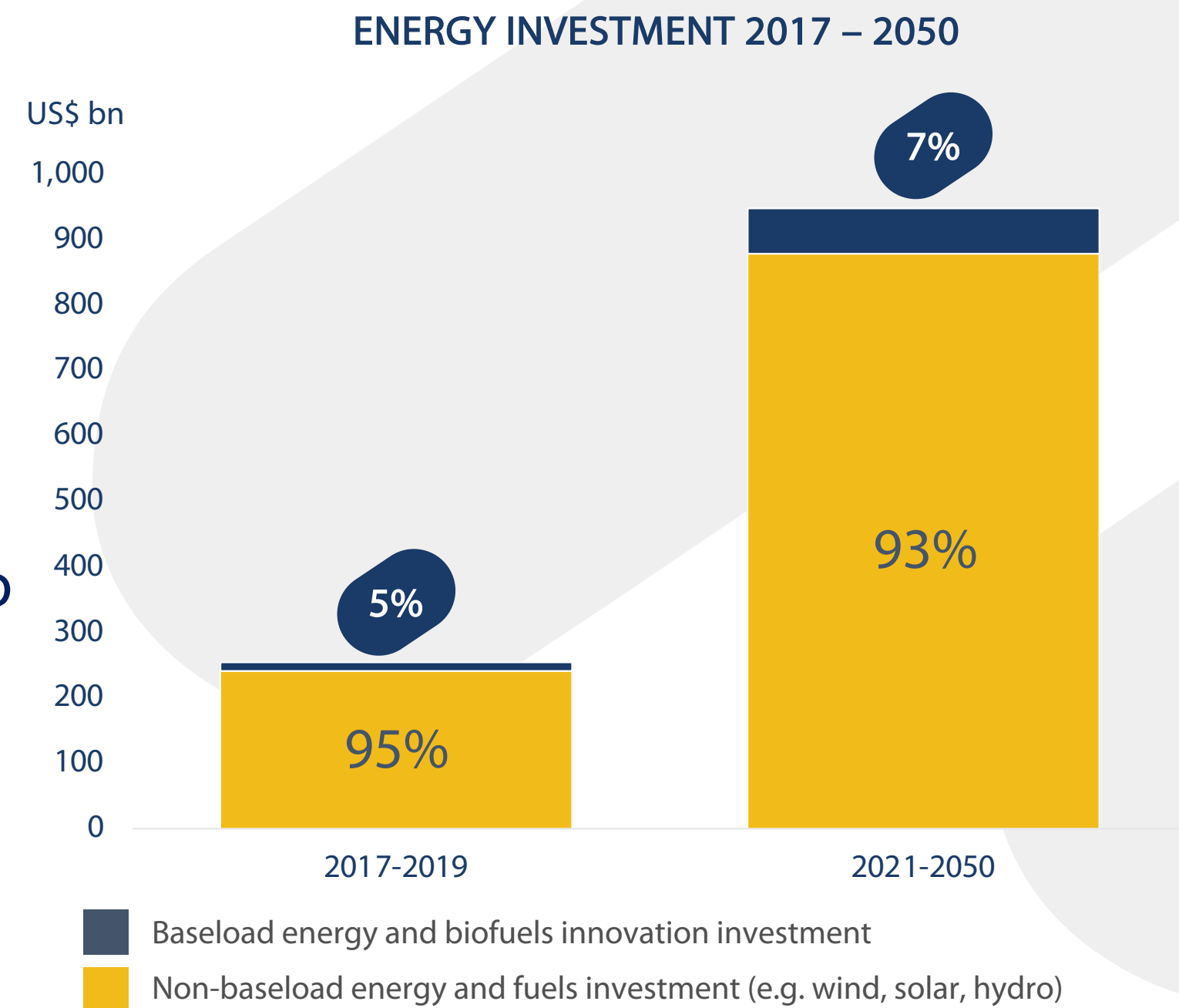
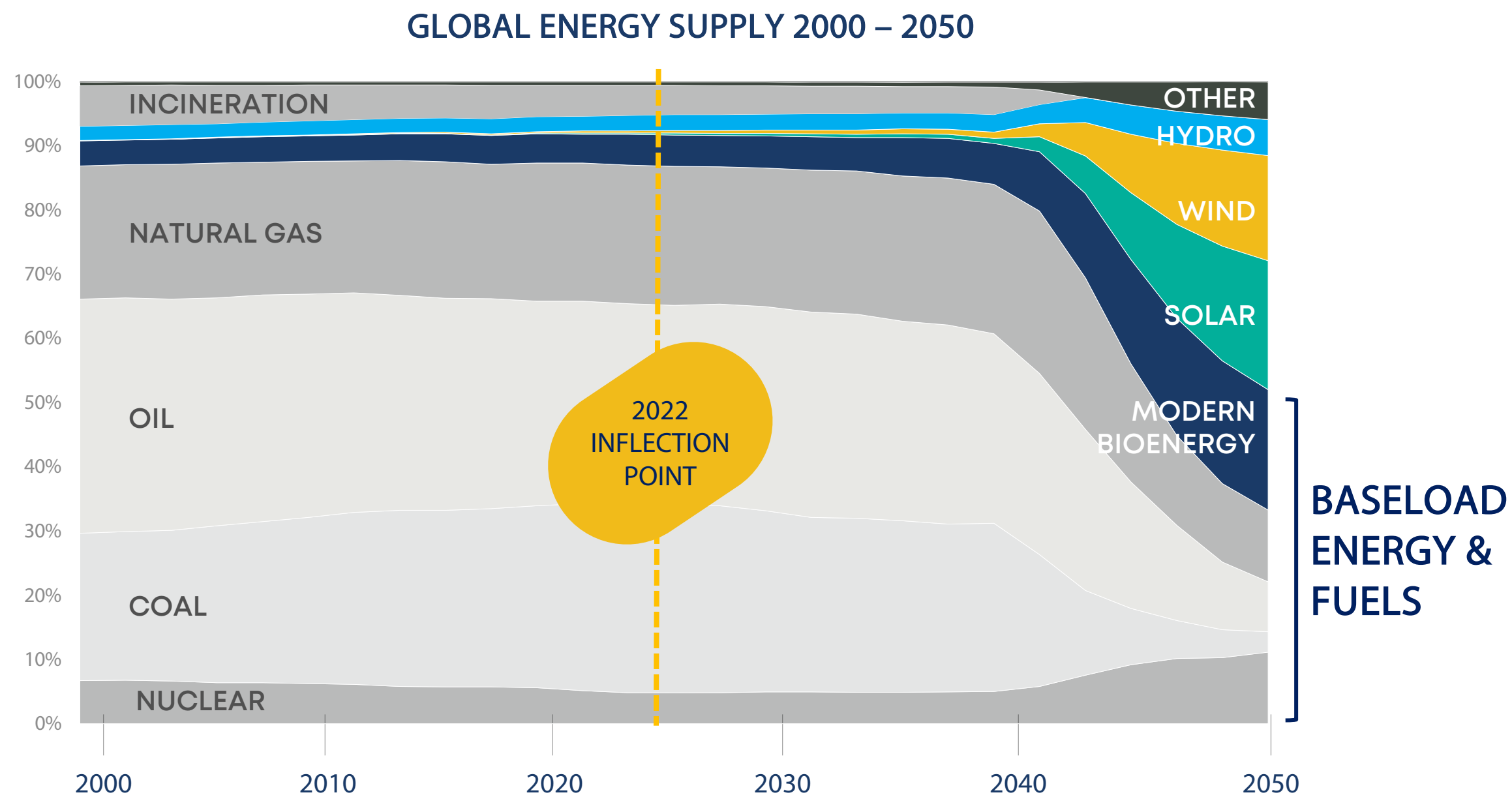
PHOTO: EQTEC commercial-scale Market Development Centre in Croatia (Belišće)

NET ZERO 2050's DIRTY SECRET

Baseload alternatives are undersubscribed, sustaining dependency on fossil fuels

Investment will shift to baseload innovations as this existential gap comes to light

67% of baseload power is from non-renewable sources that solar, wind and hydro power cannot replace; yet, the vast majority of recent investment has gone into those non-baseload solutions



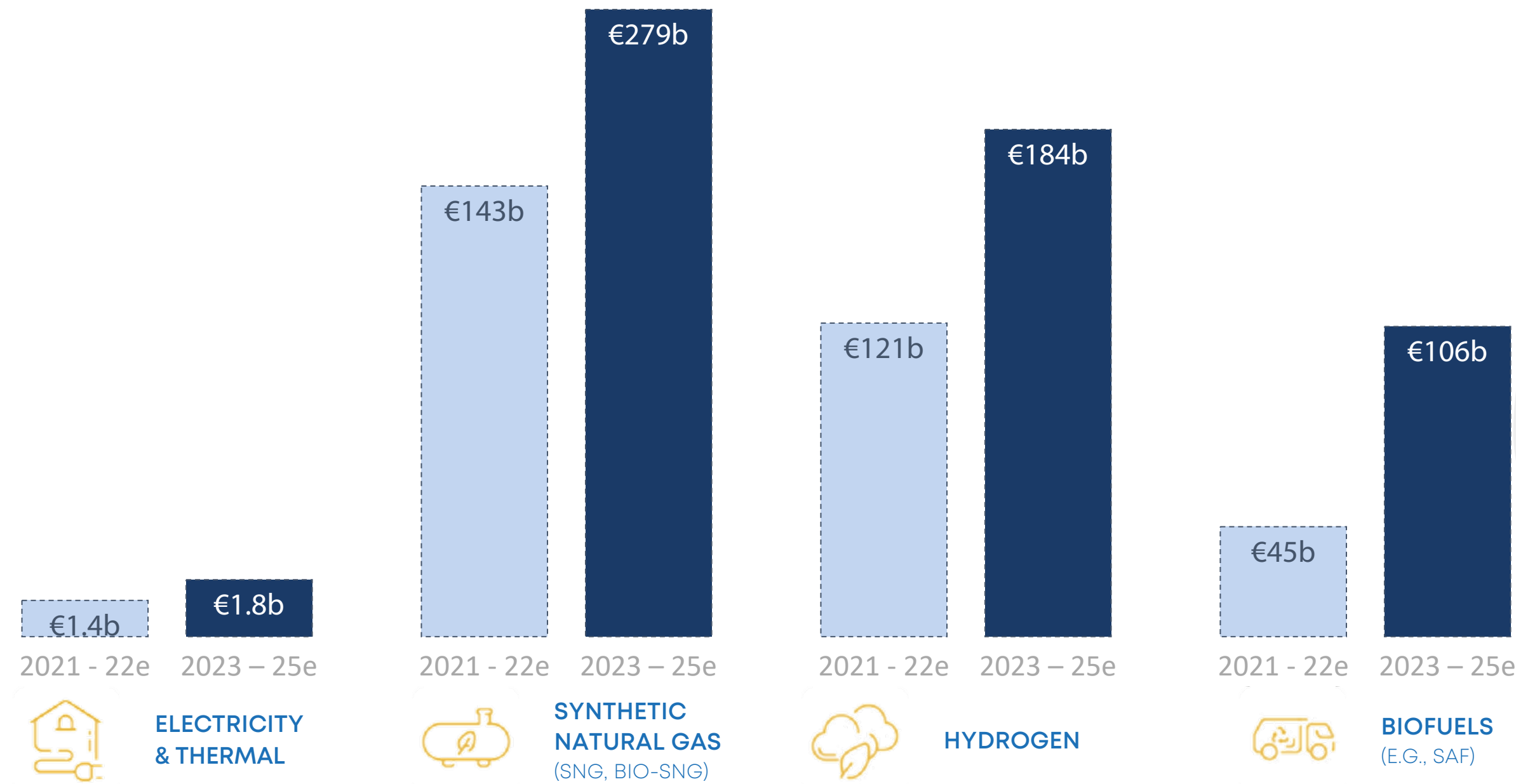
SOURCE: International Energy Agency (2021), *Net Zero by 2050*, IEA, Paris

SOURCE: IRENA (2021), *World Energy Transitions Outlook: 1.5°C Pathway*, International Renewable Energy Agency, Abu Dhabi

MODERN BIOENERGY

The market for alternatives is about to take off

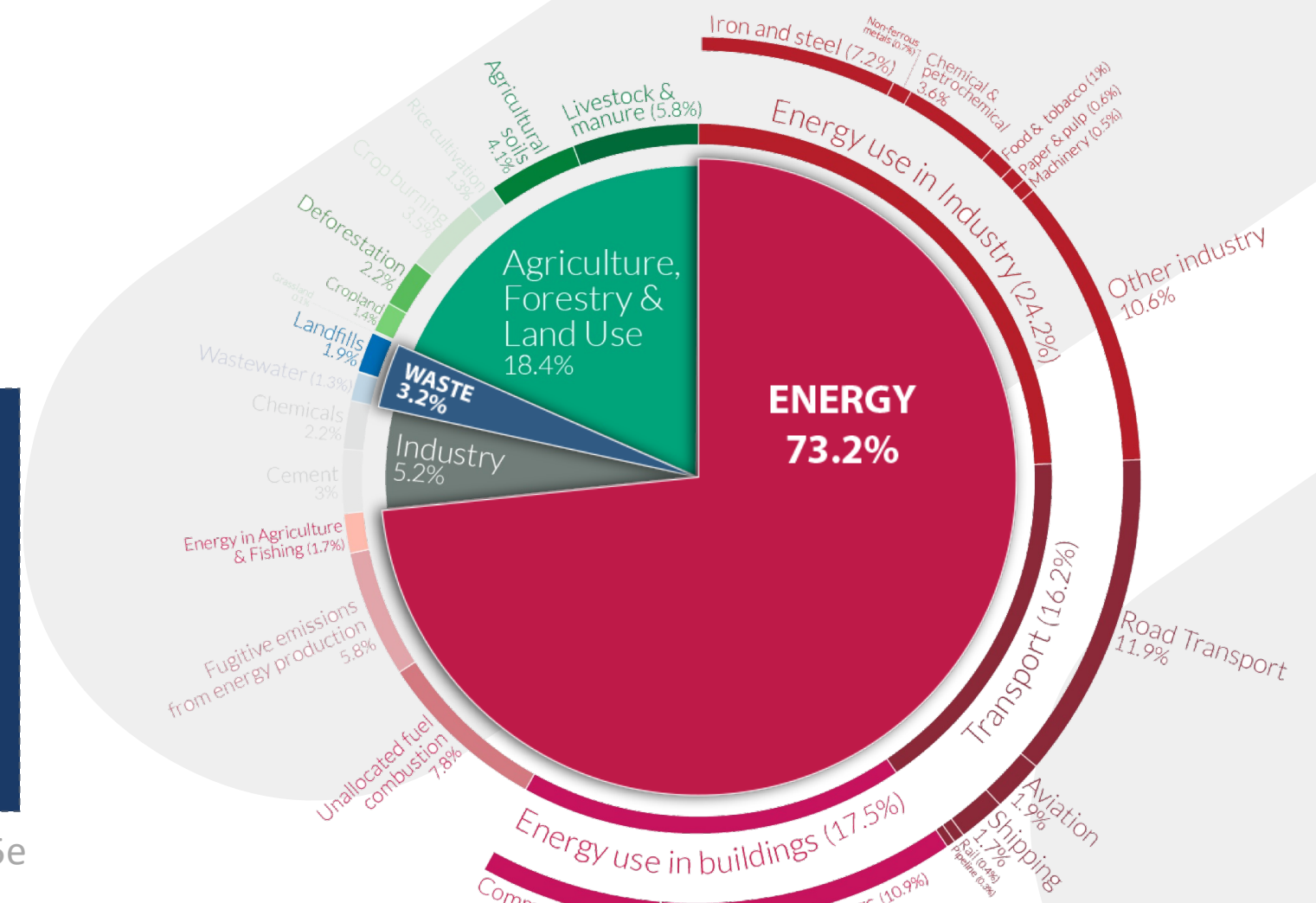
Energy and fuels market, 2021 – 2025



SOURCES (Addressable market size):
 Electricity & Thermal: Verified Market Research
 Biofuels: IEA Biofuel demand (volume) @ 0.31p per litre (2020 fossil fuel price – RAC Foundation)
 Synthetic Natural Gas: IEA Gas Information (volume) @ \$1.99 per mmbTU 2020 per BP
 Hydrogen: Grandview Research

But success depends on carbon-neutral or negative profile across the value chain

Greenhouse gas emissions by sector (= 49.4 Gt CO2e)

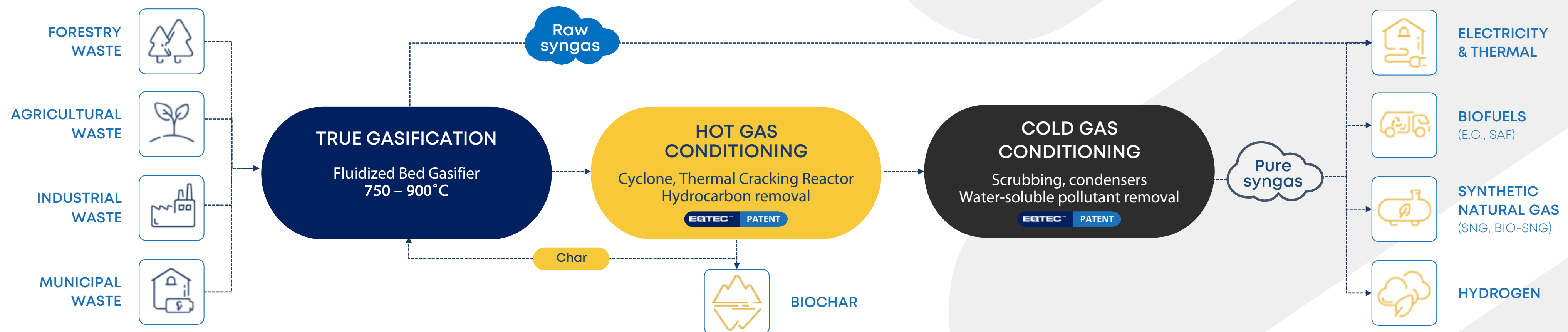


SOURCE: Climate Watch Historical GHG Emissions. 2021. Washington, DC: World Resources Institute

EFFICIENT, VERSATILE, LOCAL CLEANTECH

EQTEC is scalable because it applies design IP instead of a piece of equipment

A 2MW EQTEC plant removes the equivalent of 8,538 cars per year via CO₂ abatement



- 69% more energy efficient than any other waste-to-energy option
- Autothermic process with external energy requirement at start-up only; ancillary dryers heated by EQTEC process
- Closed system from feed-in to syngas output
- Leading gas engine company Jenbacher commends the purity, stability and power-generating efficiency of EQTEC syngas

- No toxic dioxins and furans
- No nitrous oxide emissions
- No fly ash
- Bottom ash with no toxic outputs or poisonous metals
- CO₂ emissions 25 – 30% less than incineration or other burning methods

