



**TotalEnergies**

# 2023 Strategy & Outlook

More energy, less emissions, growing cash flow

September 27, 2023

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# TotalEnergies' Executive Committee



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**Jean-Pierre Sbraire**

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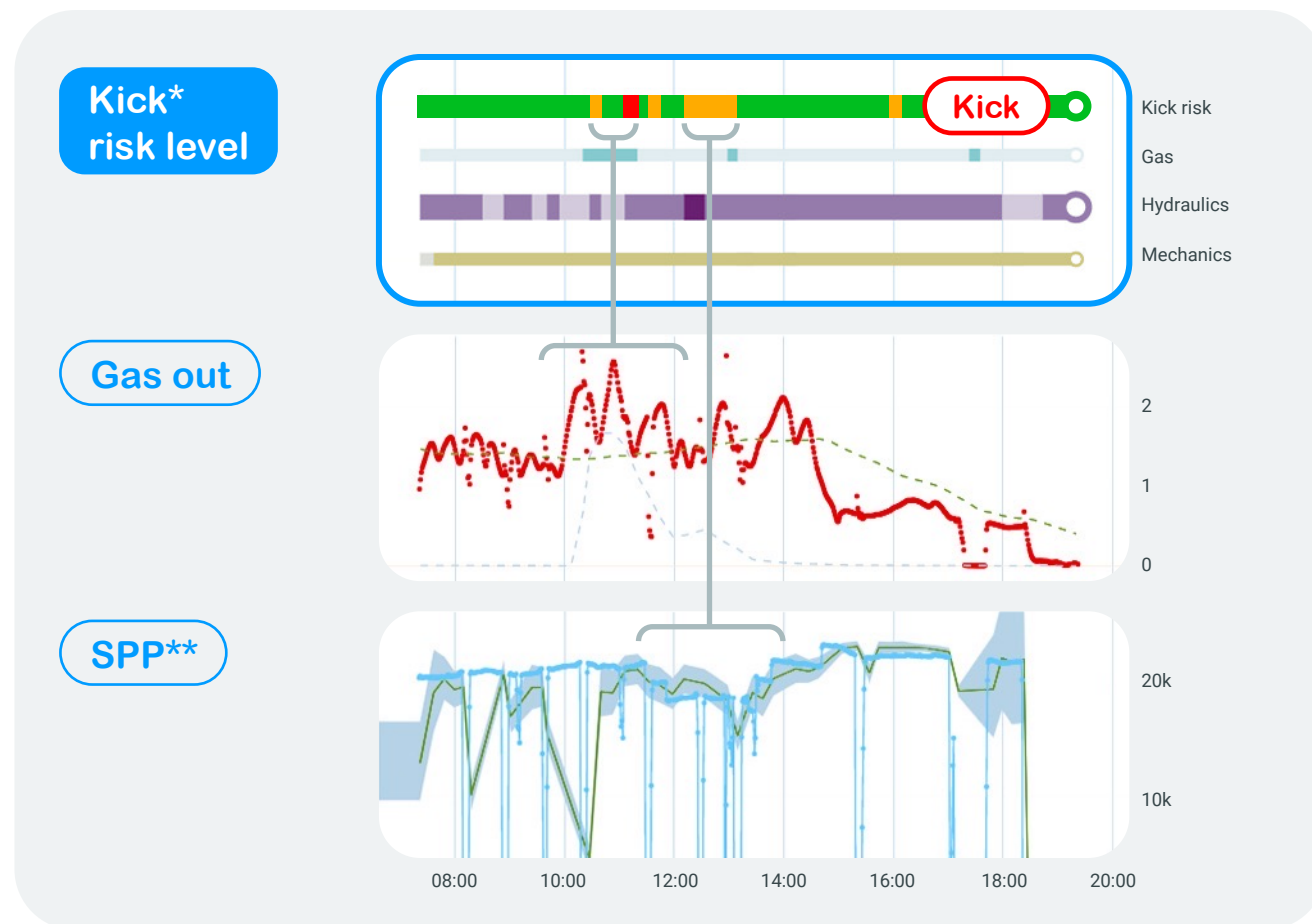


**Thierry Pflimlin**

President, Marketing & Services

# Safety moment

Artificial Intelligence to improve safety in drilling operations



- 2015–2021: **19 kicks** on operated conventional drilling operations
- AI predictive model based on 25 years of drilling operations
- Monitoring of critical parameters

Since implementation in 2021

- Generated 31 kick risk alarms in 2022–23
- **No kick** on operated conventional drilling operations



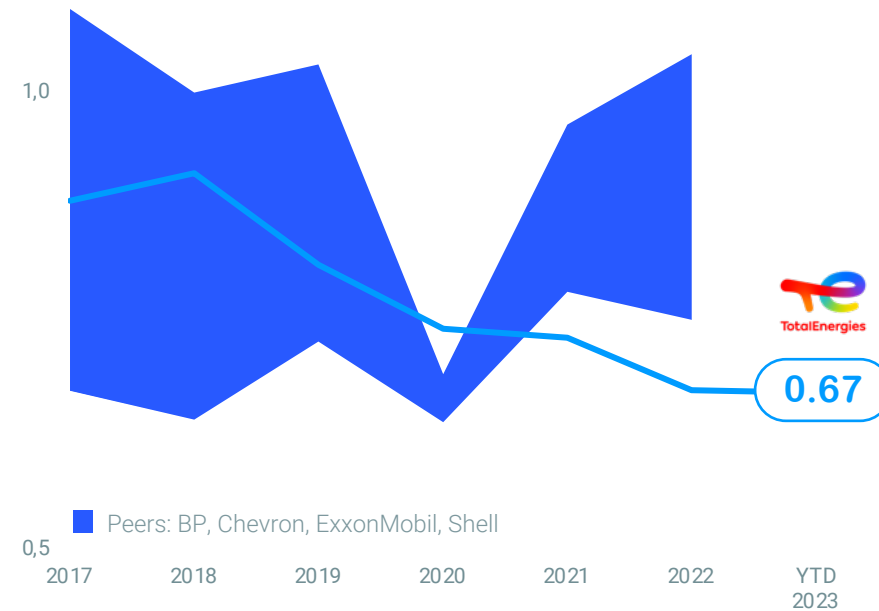


# Safety: core value

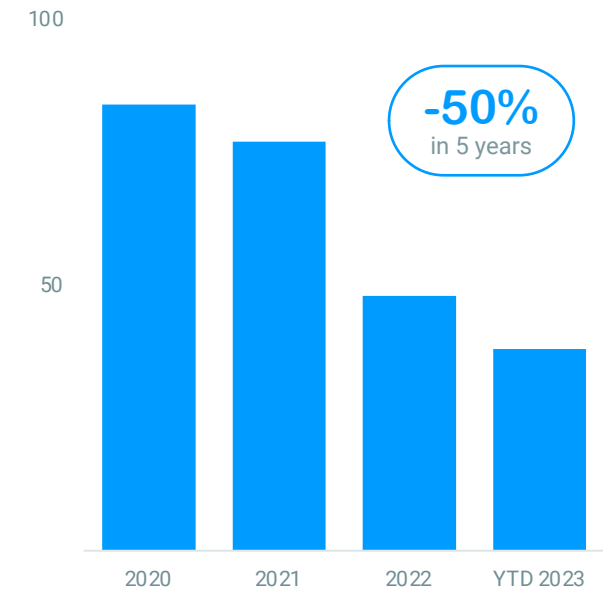
Two pillars: occupational safety and prevention of major risk



Total recordable injury rate versus peers per million man-hours



Primary losses of containment\* number of incidents



However 2 fatalities in 2023

\* Tier 1+2, as defined in IOGP 456 (Upstream) & API 754 (Downstream)

**Energy markets  
supported by the  
energy transition**





# Strategy driven by demand fundamentals



**Growing population in emerging countries** aiming at higher living standards leading to **growing energy demand** despite energy efficiency gains

Imperative of **climate neutrality** for the planet

## Oil, today's core energy

- Oil demand growth linked to population growth
- Acceleration of innovation to substitute oil use
- Low-carbon liquids: biofuels / e-fuels

## Natural gas, transition fuel

- LNG driving growth
- Back out coal and complement of intermittent renewables
- Low-carbon gases: biomethane / H<sub>2</sub> / e-NG

## Electricity at the core of the new system

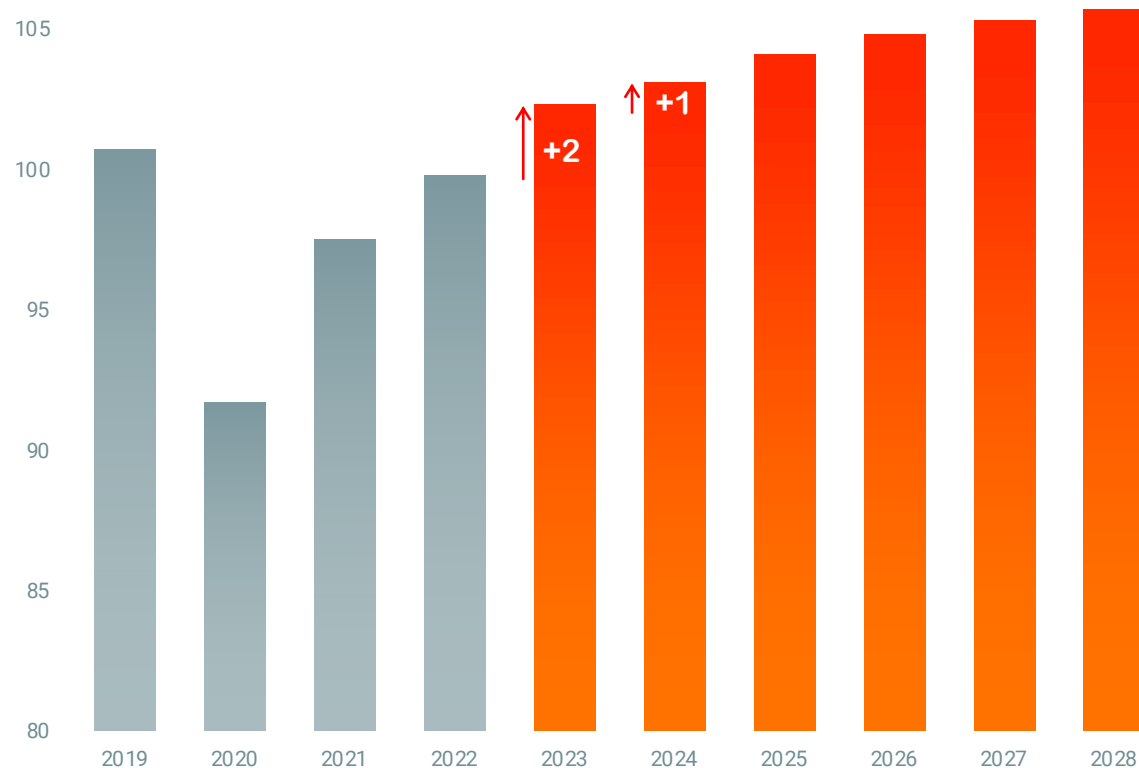
- Growing demand accelerated by Net Zero policies
- Renewables will decarbonize power generation
- Customers require clean firm power: flexible generation and electricity storage key for energy transition



# Oil demand growing through the decade



Global oil demand  
Mb/d



Source: IEA Oil 2023 (June 2023)

## Growing demand

- Above pre-Covid level in 2023
- Growth to 2028+ led by emerging countries

## Constrained supply

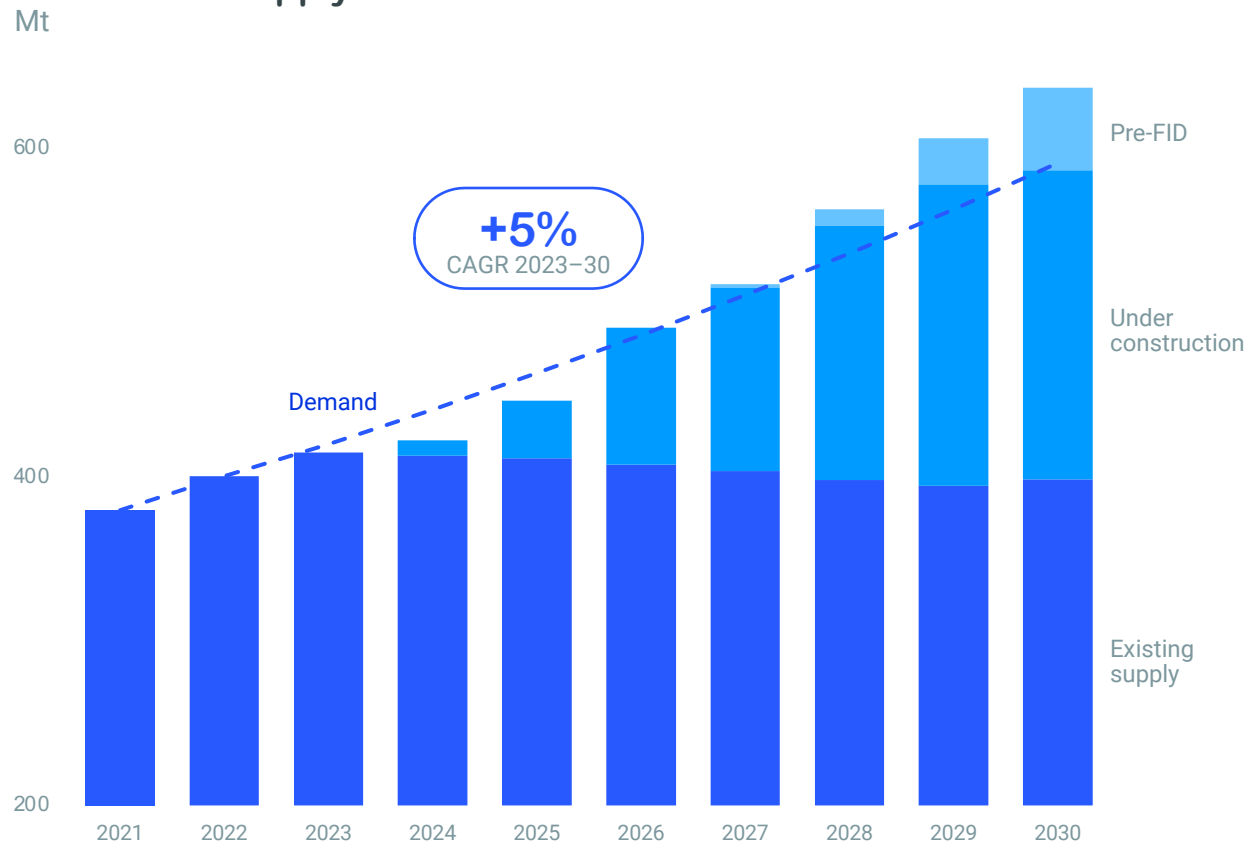
- OPEC+ policy
- US shale discipline and productivity headwinds

**Supportive conditions for prices over the short and medium term**

# LNG market expected to remain tight until 2026–27



## Global LNG supply & demand



Source: internal data

### Growing demand

- New European LNG demand competing with Asia
- Reactive to price and weather

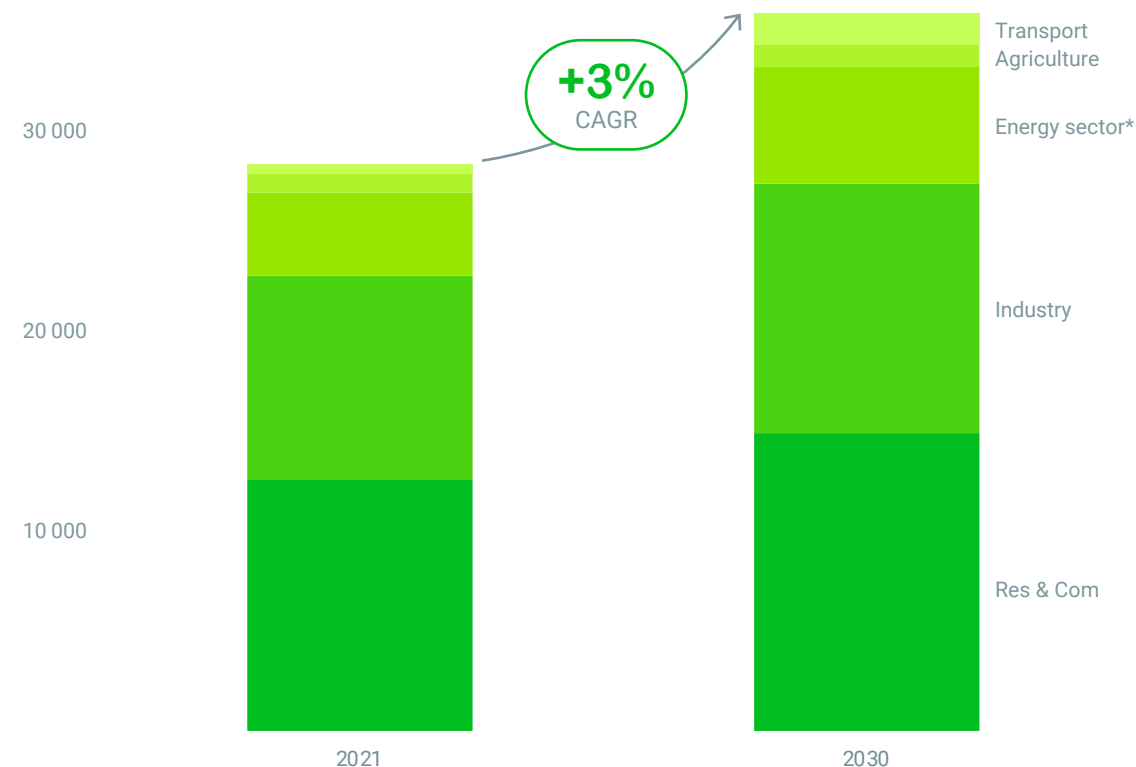
### Constrained supply

- Tight market over short to medium term, high sensitivity to any supply disruption
- Most new LNG projects coming on stream progressively in 2026-28 (US, Qatar)

**Supportive conditions for the next 3-4 years, then ease of tensions will foster demand**

# Positive outlook on power prices driven by growing demand and supply constraints

## Global power demand TWh



Source: IEA WEO 2022 – APS  
\* Own Use + losses + H<sub>2</sub>

## Growing demand

→ Driven by decarbonization and growing population

## Tensions on supply

→ Ageing power infrastructure, permitting delays, supply chain disruptions

→ Increasingly complex power system due to massive arrival of intermittent renewables

**Large investments required creating supportive price environment**



# Strategy & Outlook

Leveraging differentiated strategy to grow value and shareholder distributions



El Salvador, Chile

# Two pillars: Oil & Gas + Integrated Power

## Oil & Gas



- Low cost, low emission
- Rich upstream projects portfolio
- Top 3 global LNG integrated portfolio
- Strong LNG project pipeline

### 2023 key indicators

**1.4 Mb/d**  
Oil production

**18%**  
ROACE\*  
E&P

**> 40 Mt**  
LNG sales

**24%**  
ROACE\*  
Integrated LNG

## Integrated Power



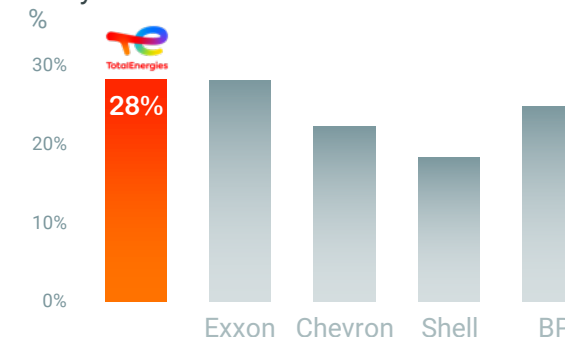
- Driving value from integration
- Positive net cash flow by 2028

**> 30 TWh**  
Electricity generation

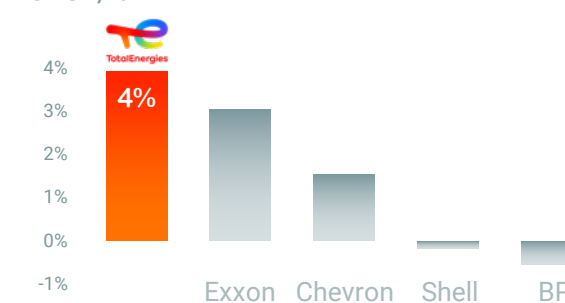
**10%**  
ROACE\*  
Integrated Power

## Peer-leading profitability and growth

### Return on Average Capital Employed Full-year 2022



### Energy production growth 2023-30 CAGR, %



Source: Wood Mackenzie

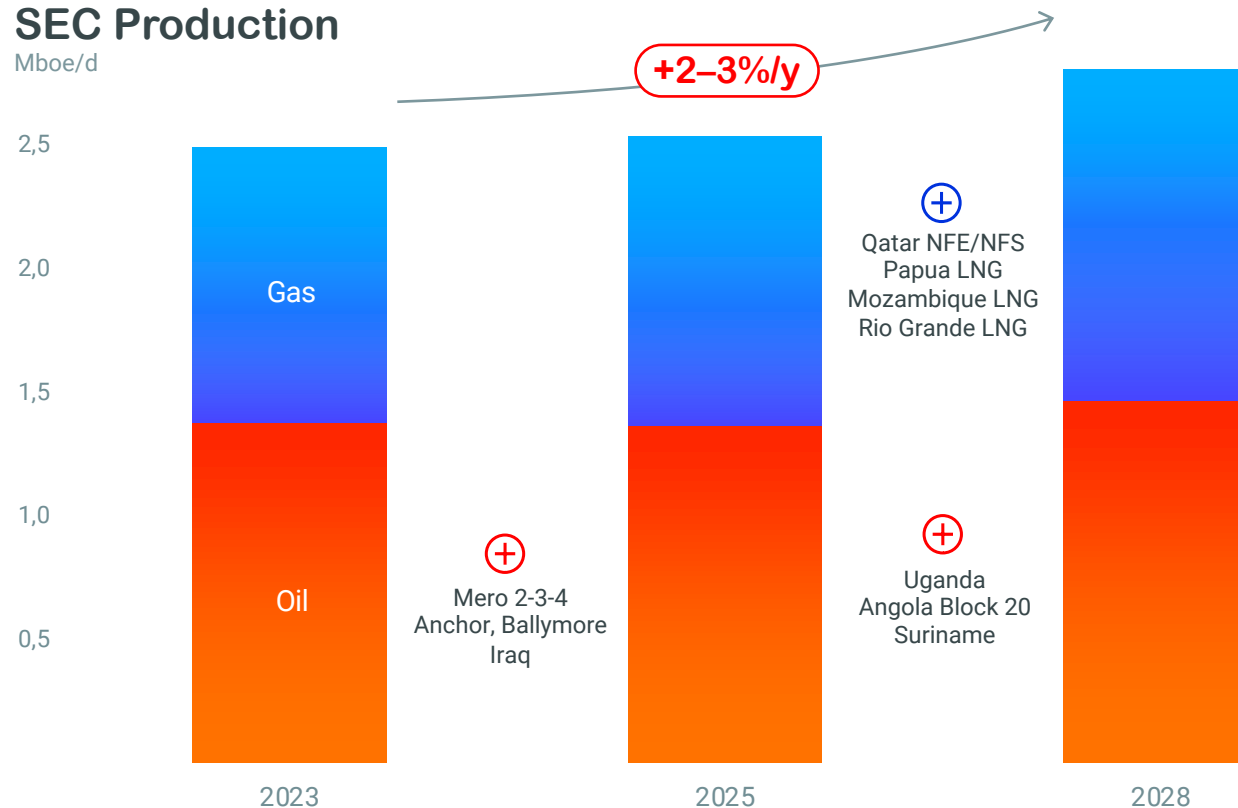


# Growing Oil & Gas production to meet demand in emerging countries

Predominantly driven by LNG

## SEC Production

Mboe/d



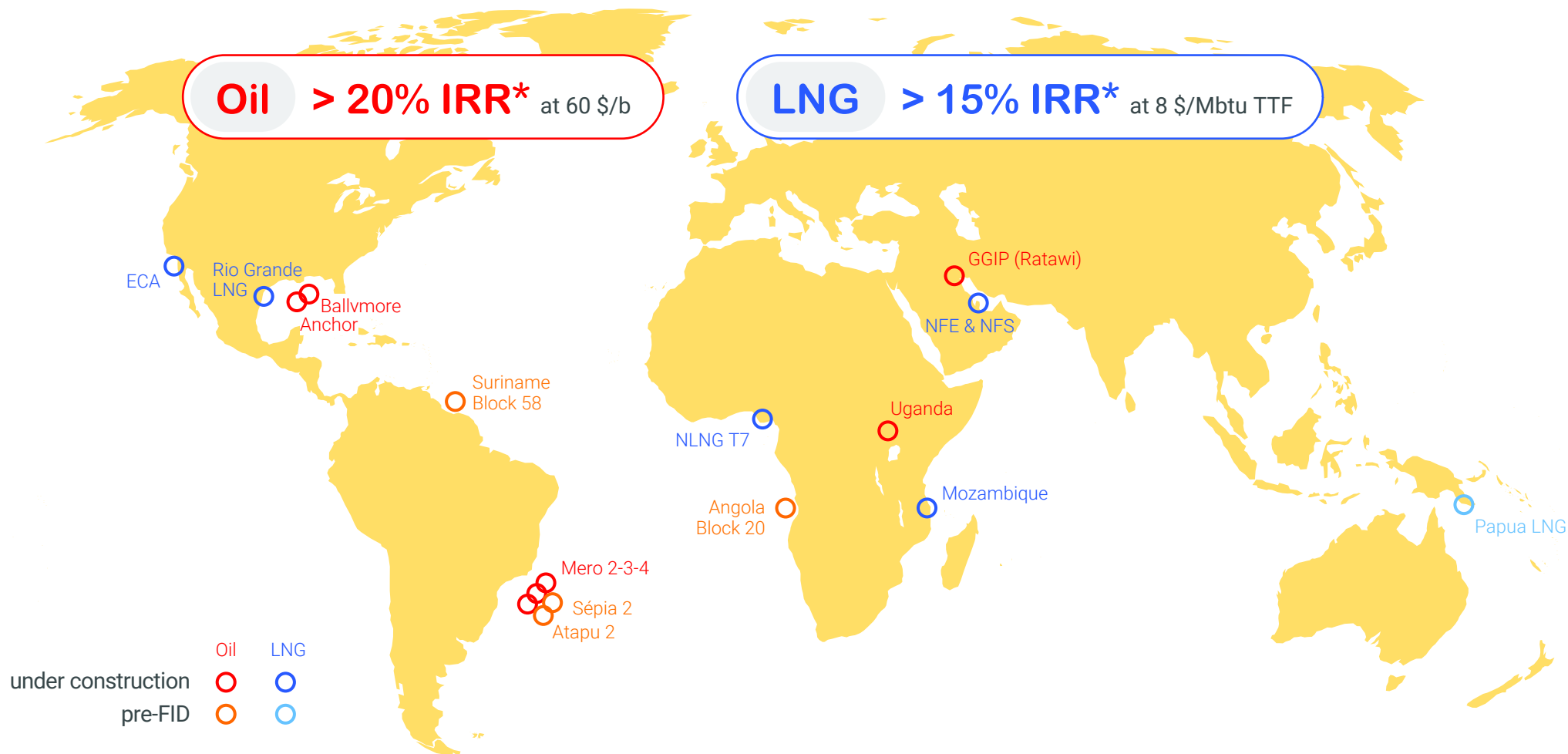
**Upstream Oil & Gas CFFO +3 B\$ 2023-28\***

\* At same price deck (nominal)





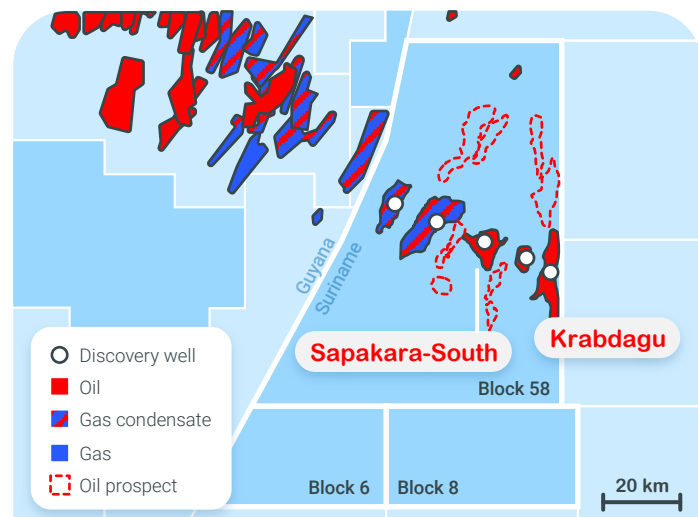
# Growth supported by rich portfolio of projects



\* Weighted average IRR at FID, projects under construction displayed on the map.  
 LNG: integrated (equity + offtake) IRR at 60 \$/b Brent, 8 \$/Mbtu TTF, 3 \$/Mbtu HH.

# Exploration strategy paying off

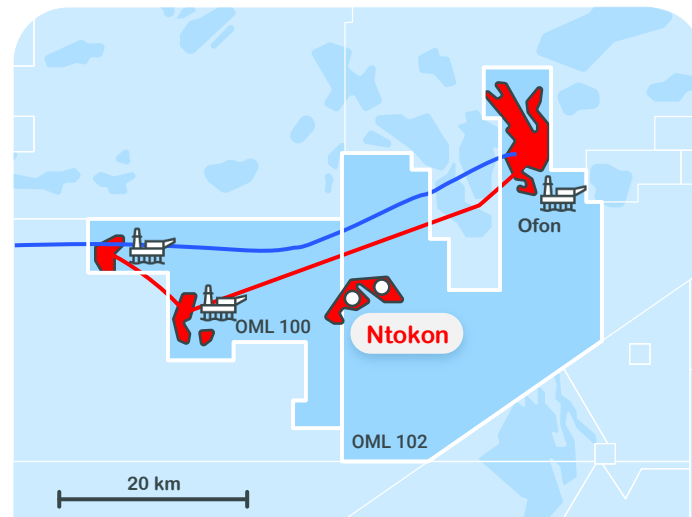
Wood Mackenzie's "Most Admired Explorer" 3 out of last 4 years



## Suriname

### 5 significant discoveries since 2019

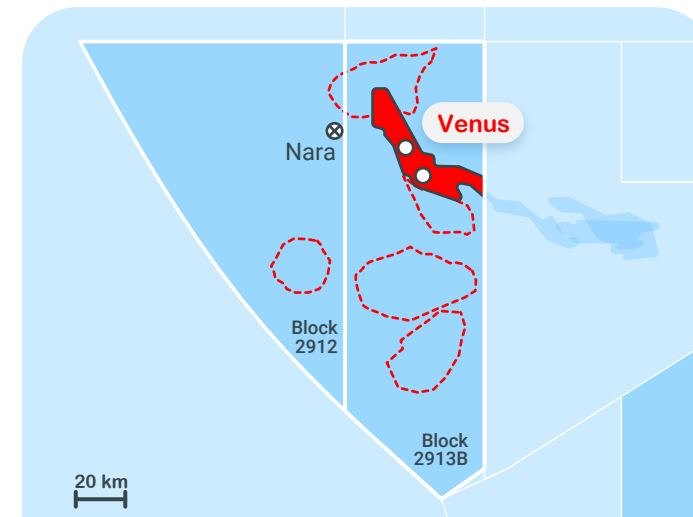
- 2 fully appraised low-GOR oil discoveries: Krabdagu and Sapakara South confirmed with successful flow tests
- 3 gas condensate discoveries



## Nigeria

### Ntokon: success in prolific area

- Ntokon-1 O&G discovery, successful flow test
- Ntokon-2 in separate structure, successful flow test
- ~100 Mboe recoverable reserves
- Tie-back to Ofon platform



## Namibia

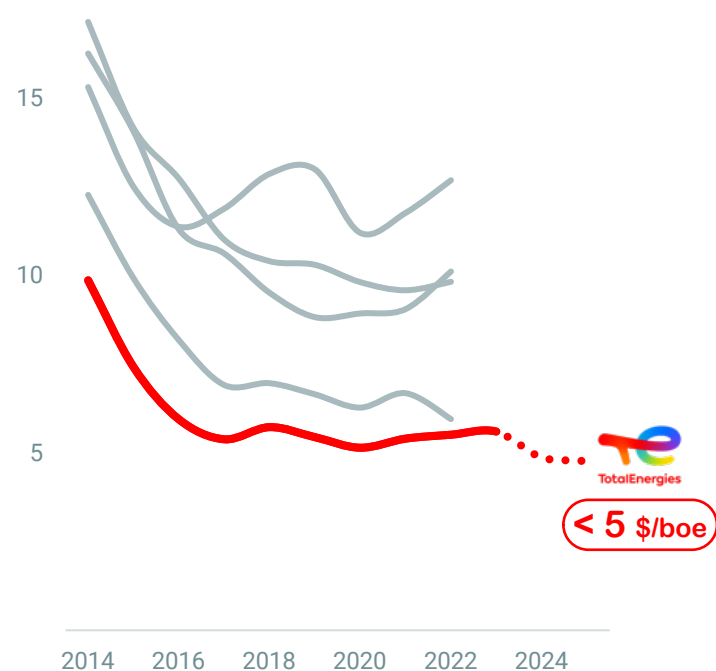
### 2 rigs assessing potential

- Venus-1A: positive appraisal
- Venus-1X: positive flow test, to be confirmed by upcoming flow test of Venus-1A
- Further appraisal wells and prospects to be drilled + 3D seismic acquisition to cover full acreage

# Producing Oil & Gas responsibly: low cost, low emission

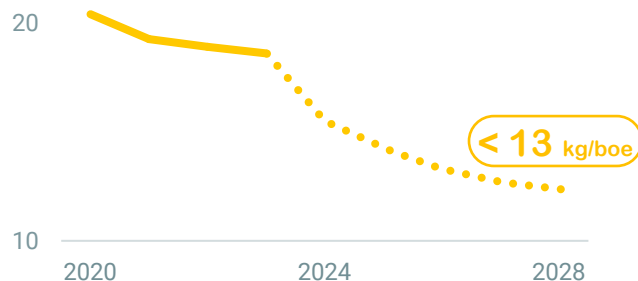
## Low cost

Operating costs<sup>(1)</sup> vs peers  
\$/boe



## Low emission

Scope 1+2<sup>(2)</sup> intensity  
kgCO<sub>2</sub>e/boe



Methane<sup>(3)</sup> intensity



## Value over volume

### Profitability assessment

**50 \$/b** environment  
and  
**100 \$/t** carbon price

### Investment criteria

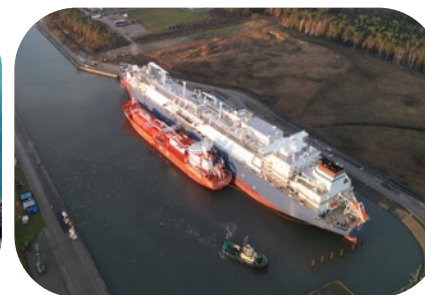
**< 20 \$/boe** Capex + Opex  
or  
**< 30 \$/b** after-tax breakeven

GHG emission intensity  
**< portfolio average**



# A global and integrated LNG player

Top US LNG exporter growing a competitive supply from 10 Mt/y to > 15 Mt/y



## Upstream

## LNG plants equity & offtake

## Trading & Shipping

## Regas

## Customers

Access to **low-cost supply**  
LNG plants **backfill**

**Lower the breakeven**  
of our LNG portfolio

**Strong trading teams**  
**Competitive LNG fleet**

Access to **premium physical**  
**outlet** in Europe

Secure **Long-Term**  
**Brent-indexed sales** in Asia

**+50%**

Equity + offtake growth 2023–30\*

**20 ↗ 30**  
LNG carriers

**> 20 Mt/y**  
Regas capacity

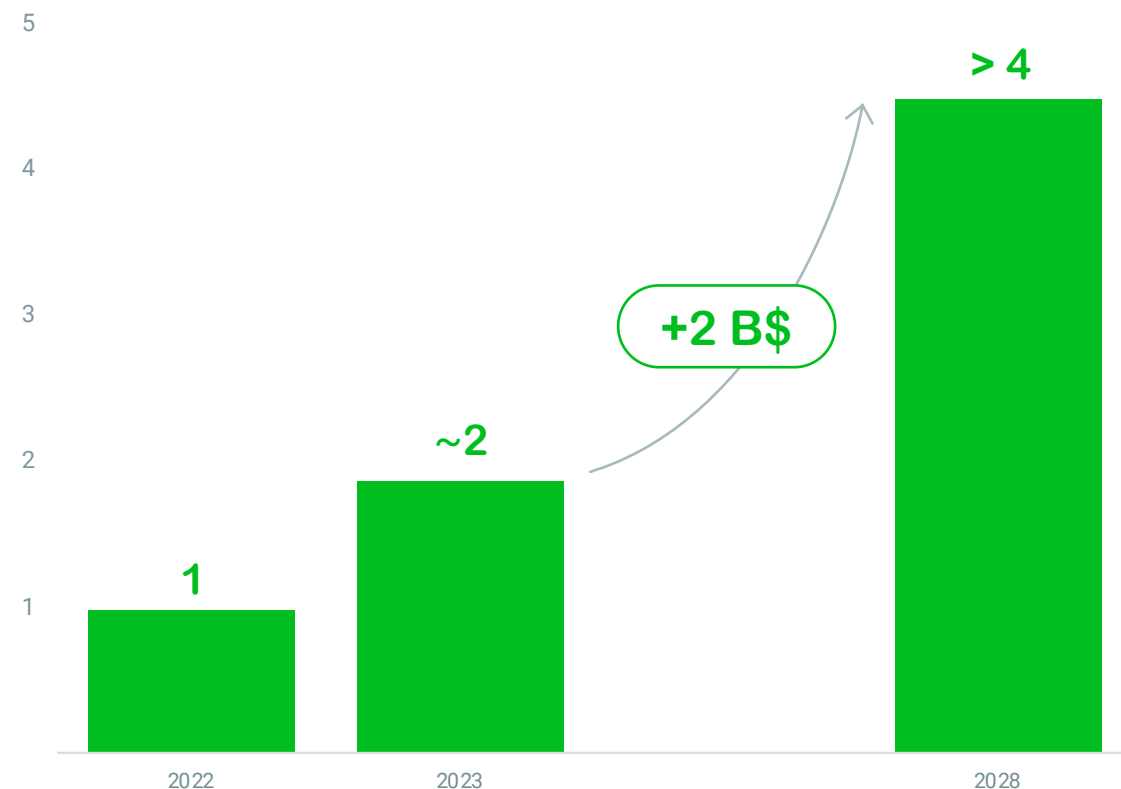
**~10%**  
Global market share

# Integrated Power: building a future cash engine



CFFO\*

B\$



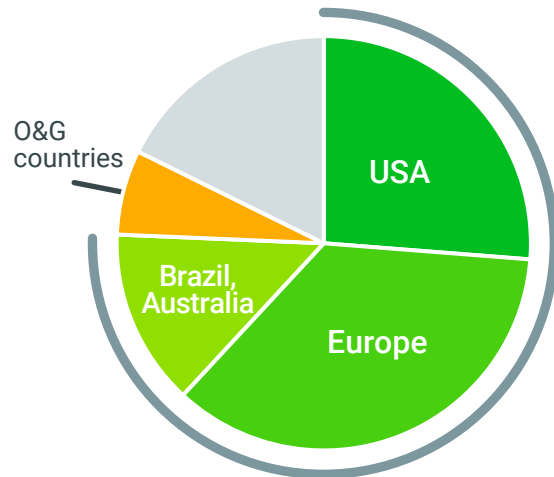
## Develop an integrated energy business model, not a utility model

- Building a cost-competitive portfolio of renewable and flexible assets
- Strengthen renewables industrialization
- Utilizing fortress balance sheet to capture value through merchant exposure
- Providing customers with clean firm power

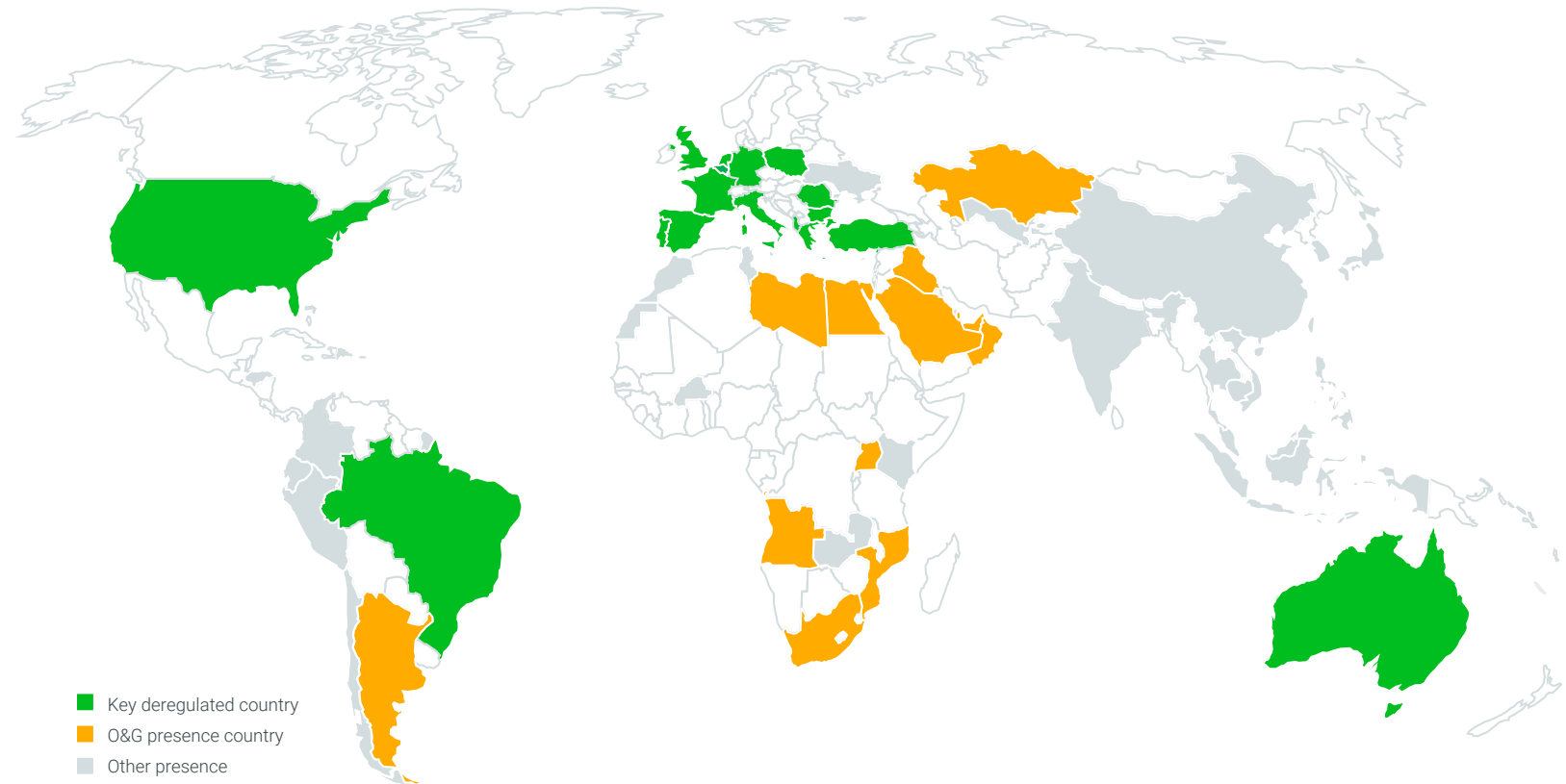
- 4 B\$/y Net Investment
- > 100 TWh by 2030
- **Target ROACE ~12%**  
equivalent to Upstream ROACE at 60 \$/b
- **Net Cash Flow positive by 2028**

# Focus on deregulated markets to leverage market volatility

## Power Generation by geography



> 70% in deregulated markets





# Creating value through low-carbon molecules

Profitably transitioning European refining assets



Hydrogen 

## Decarbonizing European refining

→ Leverage RFNBO\* European mandate

### Local projects and partnerships

- Green H<sub>2</sub> in La Mède and Bio H<sub>2</sub> in Grandpuits (France)
- Supply agreements with VNG (Leuna) and Air Liquide (Normandy)

### Tendering 500 kt/y of clean H<sub>2</sub> by 2030

- Decarbonize all H<sub>2</sub> and displace natural gas in furnaces
- Competitive tender process ongoing



SAF 

## Growing market driven by EU mandate

### Leveraging competitive asset base

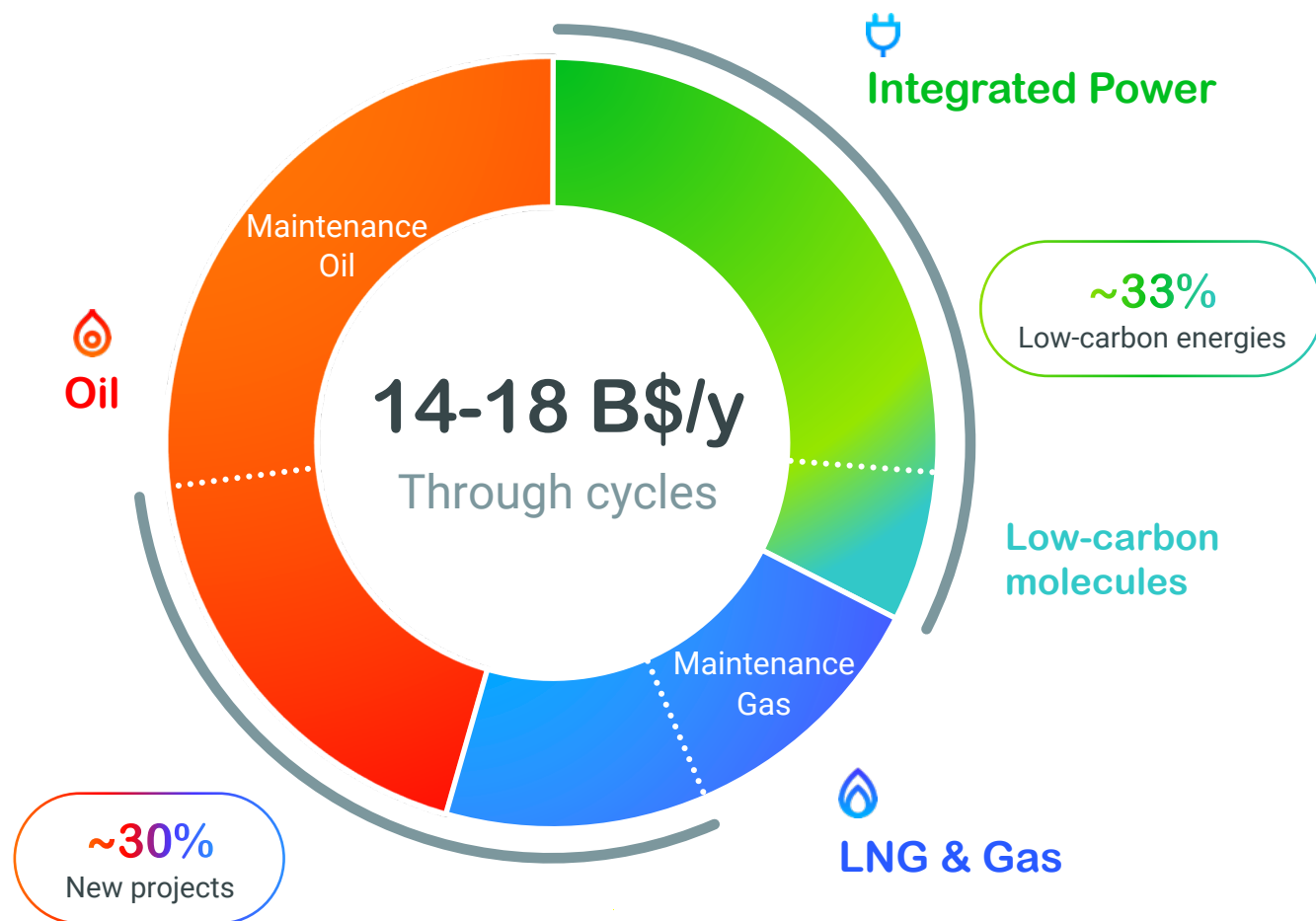
- Conversion of existing assets and coprocessing capacity development
- Worldwide production ambition: 1.5 Mt/y in 2030

### Securing feedstock

- Integration: agreement with SARIA at Grandpuits
- ISCC certified sourcing with strict control and audit

### Scouting for alternatives: alcohols, e-SAF

# Disciplined & sustainable capital investment strategy



**5-year plan 2024-28**

- 16-18 B\$/y
- 2 B\$/y short-term downward Capex flexibility

# 2023: executing the strategy, delivering results



## 2023 Highlights



### Oil

- Abu Dhabi SARB / Umm Lulu acquisition
- Suriname towards FID
- Oil sands, EU retail divestments



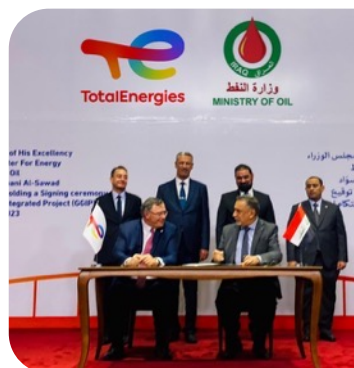
### Integrated Power

- Total Eren 100% integration
- Germany 3 GW offshore wind



### Gas

- US Rio Grande LNG FID
- Azerbaijan Absheron first gas

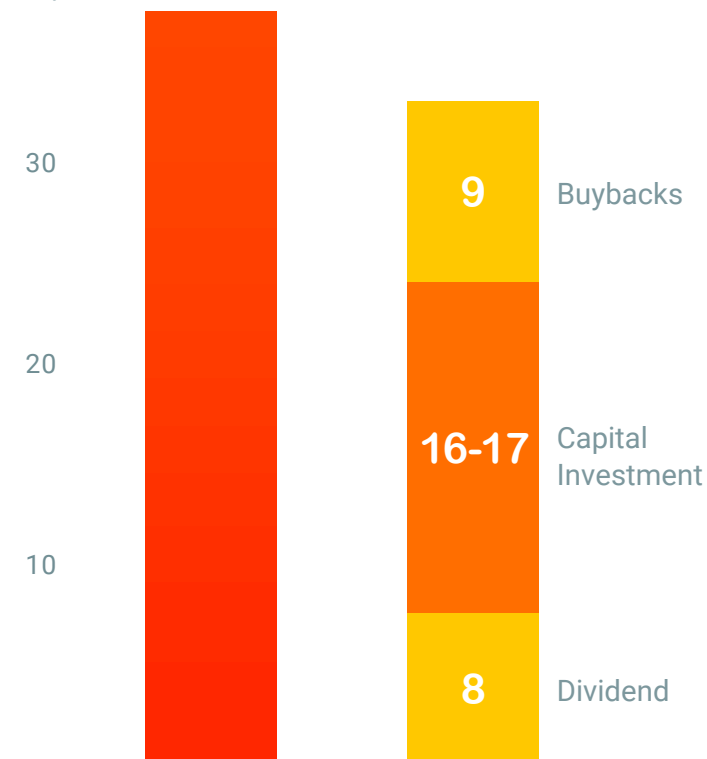


### Iraq multi-energy project

Pioneering a major profitable and sustainable project combining gas, oil and power

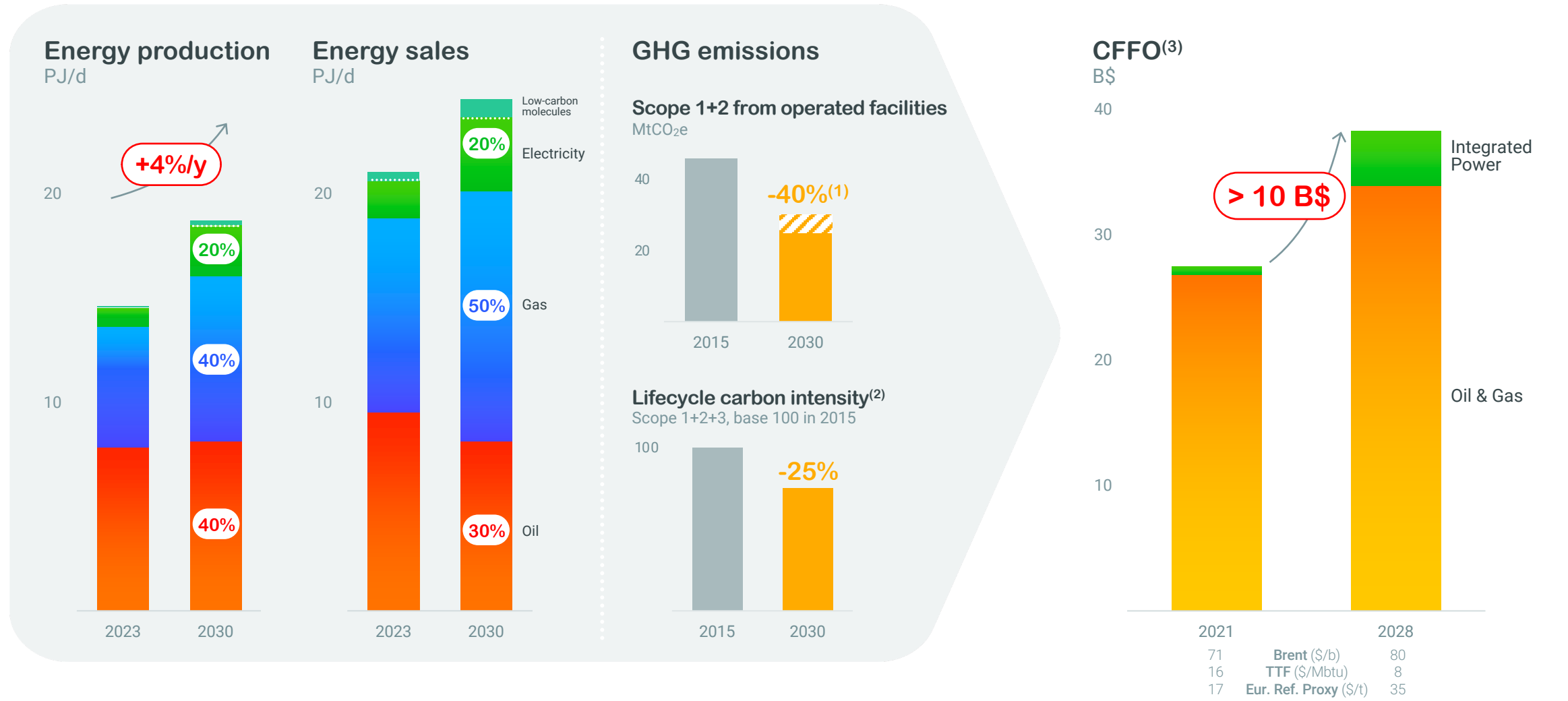
## 2023 CFFO and allocation\*

B\$



Brent (\$/b)	82
TTF (\$/Mbtu)	12.5
Eur. Ref. Proxy (\$/t)	115

# More energy, less emissions, growing cash flow



(1) Net of nature-based carbon sinks

(2) Average carbon intensity of energy products used by our customers worldwide

(3) CFFO (excl. Russia) excl. working capital variation





Deepsea Stavanger semi-submersible

# Oil & Gas

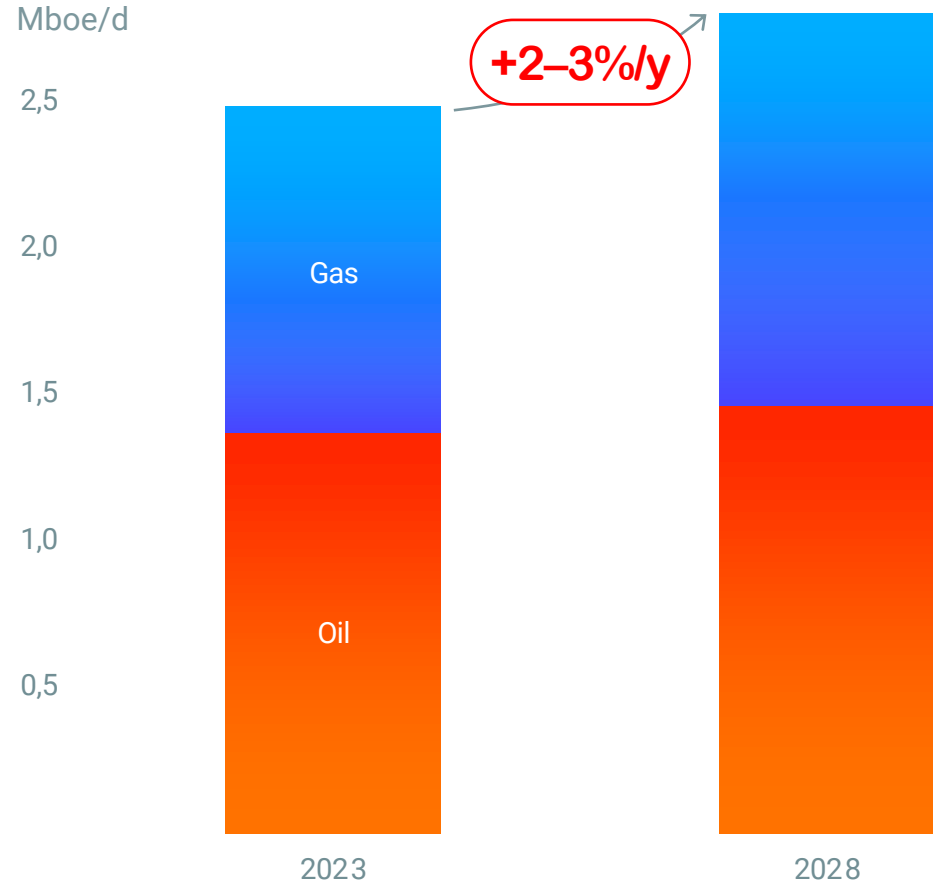
Fueling the cash engine

# Growing Oil & Gas production and cash



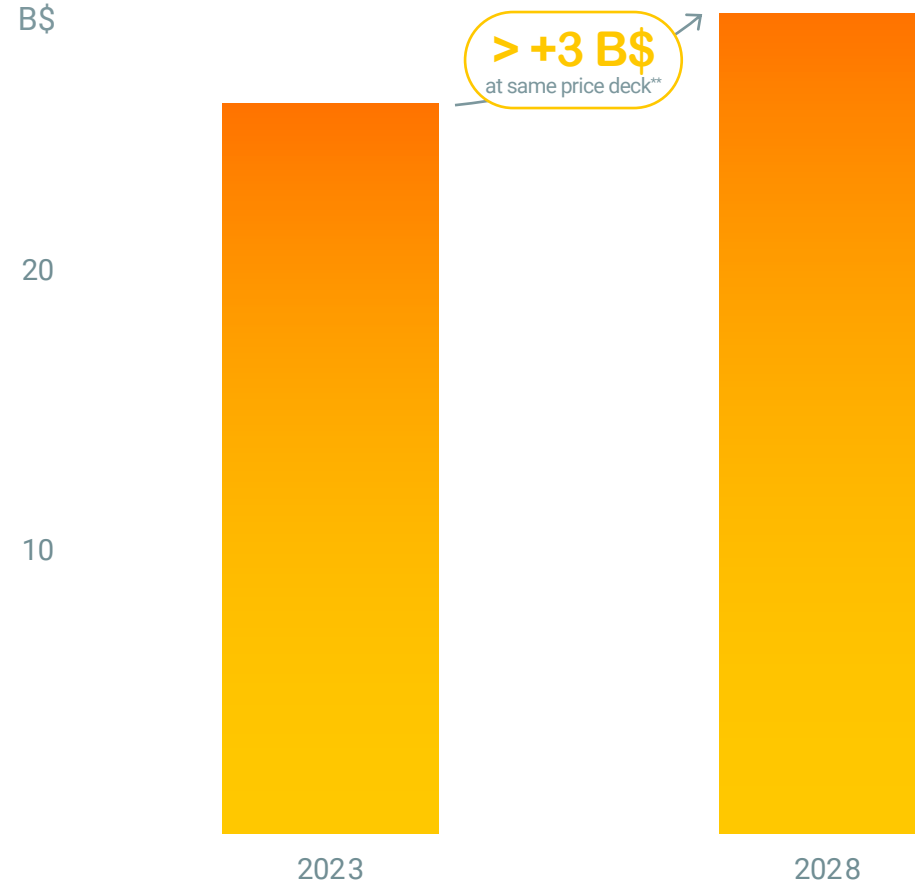
## SEC Production

Mboe/d



## Upstream O&G CFFO\*

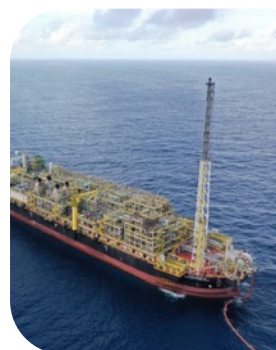
B\$



# Oil: focused on project execution



**Iraq**  
**GGIP (op.)**  
 Phased ramp-up from 60 to 210 kb/d in 2027  
 Production\*  
**75 kboe/d**



**Brazil**  
**Mero 2,3,4**  
 Mero-2 startup Q4-23  
 Mero-3 & 4 by 2025  
 Production\*  
**80 kboe/d**



**US GOM**  
**Anchor, Ballymore**  
 Anchor startup 2024  
 Ballymore startup 2025  
 Production\*  
**50 kboe/d**

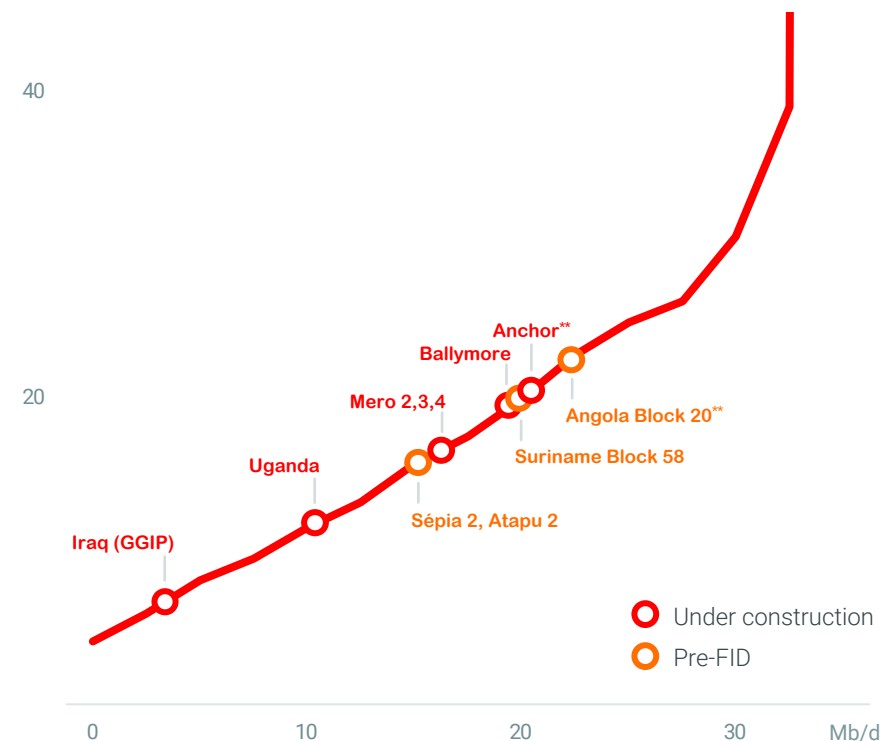


**Uganda**  
**(op.)**  
 Startup end-25  
 Production\*  
**130 kboe/d**

**Cum. CFFO 2028** > 3 B\$/y 50 \$/b | > 4.5 B\$/y 70 \$/b

## Global Oil projects merit curve

Technical costs, \$/boe



Sources: Merit curve: Rystad (projects with first oil 2023–28), Projects: internal data  
 \*\* Breakeven < 30 \$/b



# Top-tier pipeline of LNG projects

Best-in-class growth



## Qatar NFE & NFS

COD 2026–28

→ ~3.5 Mt/y equity

→ NFS ~650 \$/t LNG EPC\*



## US RGLNG

COD 2027

→ 5.4 Mt/y offtake

→ 700 \$/t LNG EPC\*

## Mexico ECA

COD 2026

→ 1.7 Mt/y offtake

→ 500 \$/t LNG EPC\*



## Papua LNG (operated)

FID 2024

COD 2028

→ ~2 Mt/y equity

→ ~750 \$/t LNG EPC\* estimate



## Mozambique LNG (operated)

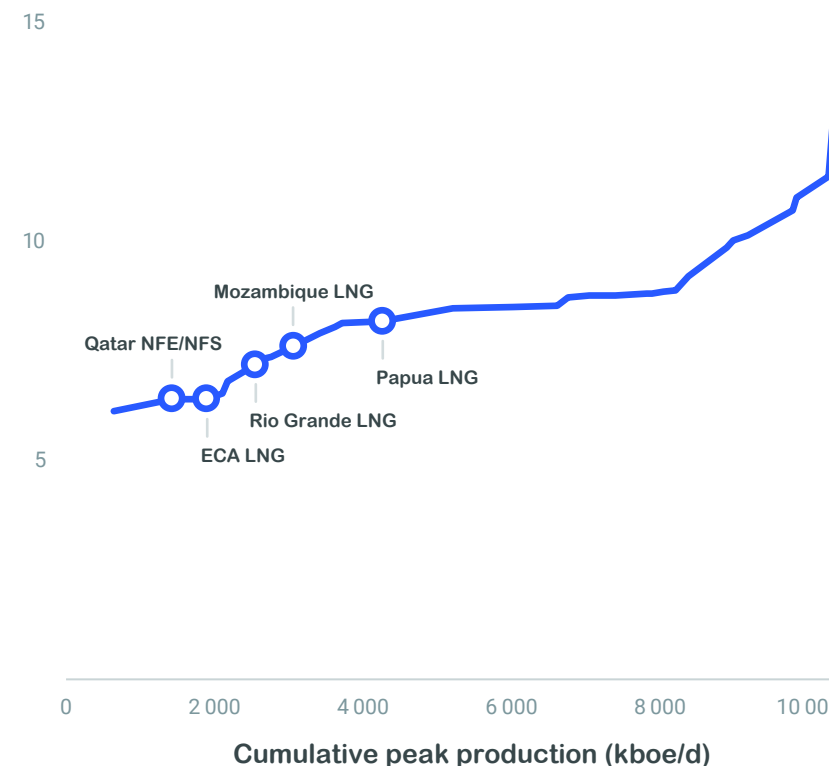
Target COD 2028

→ ~3 Mt/y equity

→ ~750 \$/t LNG EPC\*

## LNG projects merit curve

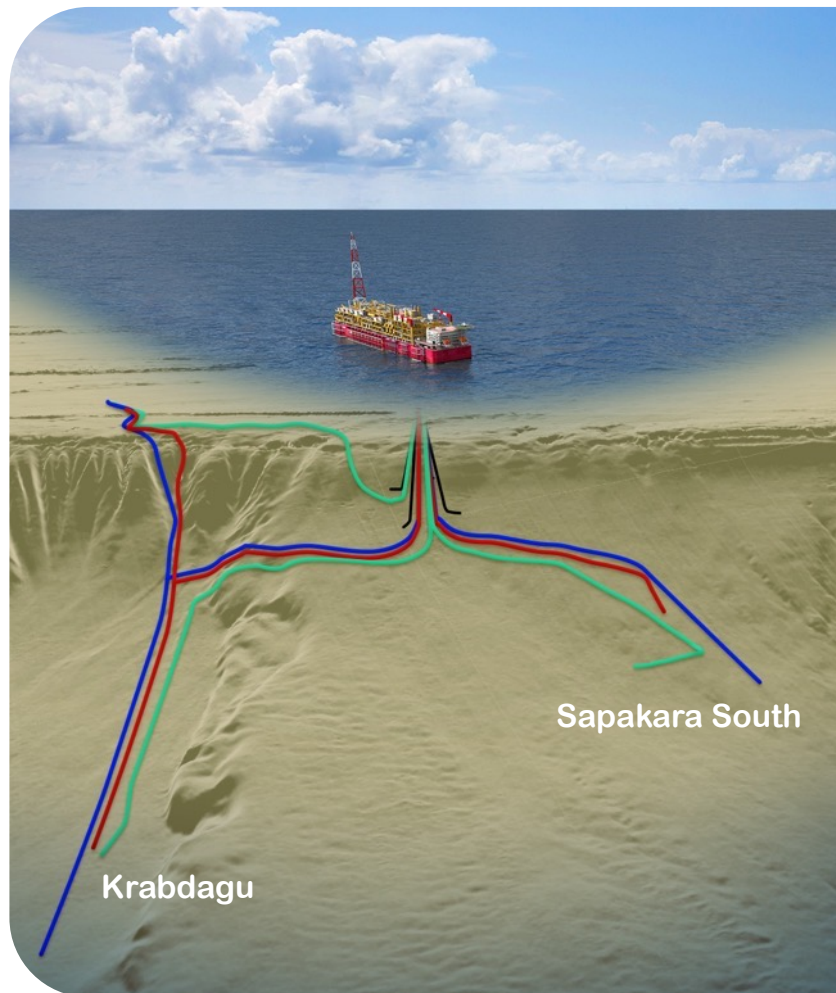
\$/mcf DES Asia, breakeven at 11% discount



Sources: Merit curve: Goldman Sachs Top Projects  
TotalEnergies projects: internal data



# Suriname: launching a profitable oil development



**Successful appraisal: ~700 Mb recoverable resources oil development**

- 200 kb/d FPSO
- Targeting FID end-2024, first oil 2028

**Strong economics with upside**

- Access to 75% of APA's cost oil for carry repayment (3 years at 60 \$/b)
- Design allowing for high-IRR tie-backs

**~20 \$/boe**  
Capex+Opex

**13 kg/boe**  
Scope 1+2 GHG  
(CO<sub>2</sub>e) intensity

**~75 kb/d**  
during 5y plateau  
(excl. carry)

**~15%**  
IRR 60 \$/b

# Focusing on what we do best

Low-cost portfolio that maximizes value



## Operational excellence

→ Maximize value from existing assets **safely** and **efficiently**

## Low-cost production

→ Keep cost inflation under control:  
**< 5 \$/boe Opex\***

## Project execution

→ Deliver major projects  
**on time, within budget**

## Portfolio high-grading

- Canada divestment
- Focus on low-cost assets
  - 2023 entries (UAE, Iraq): < 10 \$/boe
  - Upcoming FIDs (Suriname, Angola...)

## Oil supply cost merit curve

Technical costs, \$/boe

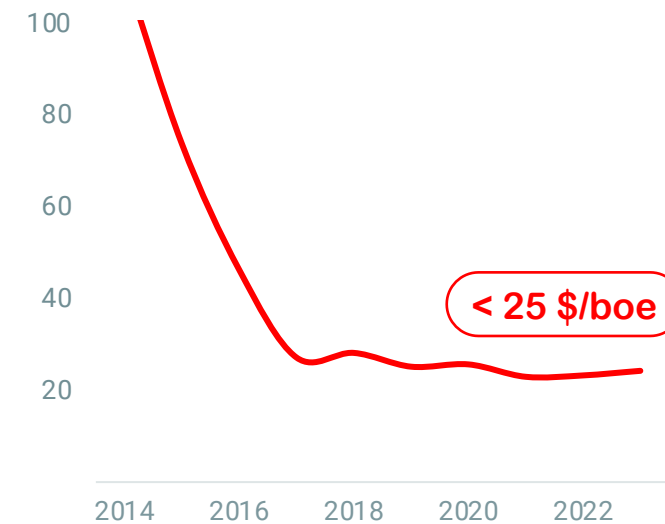


Sources: Merit curve Rystad (Sep-23); internal data

## Low breakeven

## Pre-dividend organic cash breakeven

\$/boe



# Producing Oil & Gas while slashing GHG emissions



## Relentlessly fight emissions in existing assets

- **Aiming for Zero Methane emissions**  
AUSEA (drone-based methane metering campaign) on 95% of operated assets in 2022
- **Zero Routine Flaring by 2030**  
2023: Ended routine flaring in Denmark & Nigeria
- **Deliver 1 B\$ energy efficiency plan**  
~400 projects over 2023-24, reducing GHG emissions and energy costs

## Deploy best available technologies in new projects

- **Closed flare in all new projects**
- **Uganda, Mozambique LNG**  
Renewable power supply (solar, hydro)
- **Papua LNG**  
Electric LNG trains, Native CO<sub>2</sub> CCS
- **Suriname, Angola Block 20**  
Offshore CCGT\*

## Innovate to substitute fossil fuels use

- **Investment in e-Natural Gas**
  - 50/50 JV with TES in the US
  - 100-200 kt/y project under study, supported by IRA
  - 100% compatible with existing LNG infrastructure



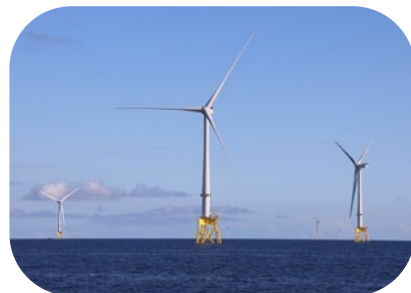


# Integrated Power

Profitably building  
a future cash engine



# Integrated Power: objective ROACE 12%



## Renewables

## Flexible generation

## Storage

## Trading

## Customers

**First quartile target**  
Strengthen renewables  
industrialization

CCGTs to **complement**  
**renewable** production

Manage **intermittency**  
to capture value:  
BESS, hydro

**Capture volatility** and  
maximize asset value

**Deliver clean firm power**  
**to large B2B**  
Supply B2C & EV charge

**Integration to deliver clean firm power**

# > 100 TWh production by 2030

# Levers to reach our profitability target

## Focus growth on deregulated markets



Renewables

20 TWh (2023) **x4 to 5** in 2030



Flexible assets

15 TWh (2023) **x2** in 2030

### Develop better

- Focus and scale
- Select and leverage strong partnerships
- Balance sourcing from developers and in-house platforms
- Invest in data acquisition

### Produce better

- Objective: 1<sup>st</sup> quartile in Capex and Opex:
  - +1% efficiency, -10% Opex, -10% Capex versus market average
- Standardize design and optimize capex through digital
- Leverage purchasing power
- Enhance our operation through in-house operation and digital

### Sell better

- 30% Merchant Exposure
- Optimize Roads to market and sales margin:
  - Large B2B & Corporate PPA
  - Firm power
- Leverage integration and real-time trading

### Optimize portfolio

- Utilize fortress balance sheet to minimize financing costs
- Industrialize farm-downs
- Build portfolio to extract synergies between flexible and intermittent assets

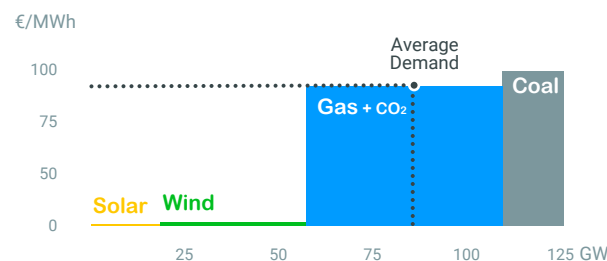
# Growing selectively and profitably in offshore wind

Germany award – 3 GW in two North Sea and Baltic Sea licenses

## Attractive German power market

- Strategic entry into dynamic German power market fitting our Integrated Power model
  - Mix of CPPA and merchant revenues
  - Integration with 400 MW solar projects under development
- High German power prices underpinning double-digit profitability
  - End of nuclear, gas as marginal producer
  - Current wind Corporate PPA market > 80€/MWh

German power generation merit curve\*



## Low technical cost

- Long-term leases: 25 +10 y, COD by 2030
- Bottom-fixed – 40m water depth
- High net load factor ~50%

## Attractive entry conditions

- Low upfront payment: 10% of bid amount, to cover grid connection Capex paid by the State
- 20 annual installments from COD: 90% of bid amount, similar to “royalty” model in E&P





# Selective strategy in regulated markets



## Oil & Gas countries

- **Leveraging multi-energy model** to access Oil & Gas contracts  
Iraq, Libya
- **Leveraging Oil & Gas position** to access profitable electricity projects  
Angola, Qatar, Kazakhstan
- **Contributing to transition** of Oil & Gas countries
- Achieving **high double digit returns** thanks to:
  - Less competitive environment
  - Capacity to manage perceived higher risk
  - Synergies with Oil & Gas presence

## Rest of the world

- **Opportunistic value-driven projects**
  - Access to quality assets through JVs with AGEL strategic partner in India
- **Monetize non-core assets of Total Eren portfolio**



Integrated Power

Khirasara, India




# Electromobility: focused on our competitive advantages in Europe

→ Two key targeted markets:  
**highways & city hubs**  
and **B2B** segments


→ Synergies between B2B sales  
and Integrated Power supply

→ Selective B2G approach  
through partnerships



**HPC Highways & city hubs**

- Leveraging existing presence in Europe
  - **#1** on highways in France (>1000 HPC\*)
- Focus on securing scarce prime locations



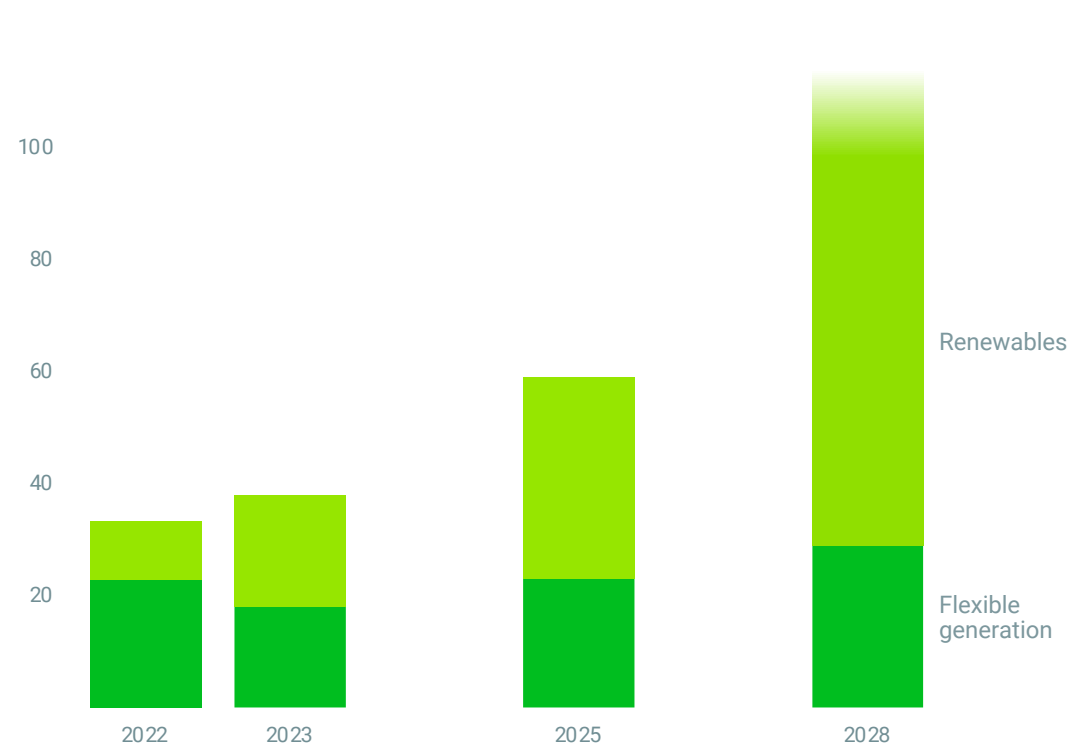
**B2B**

- Converting B2B track record to electromobility
  - **> 2M** fleet cards in France
- Service provider to our clients
  - Charge point operator for B2B fleets
  - Mobility Service Provider giving access to >480 k charge points

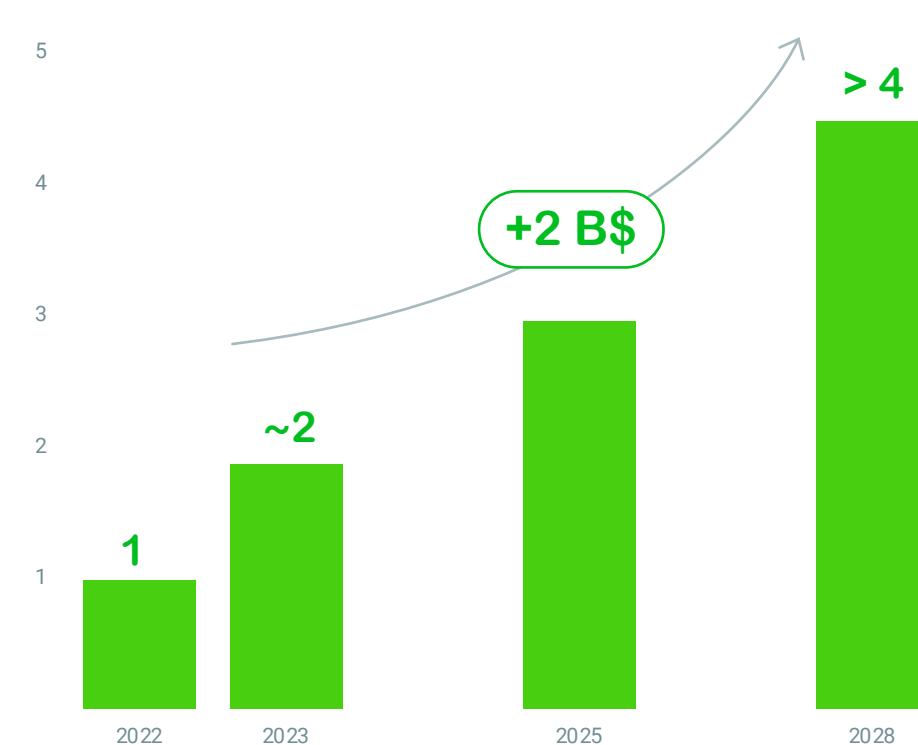
# Growing profitable Integrated Power business



**Electricity generation**  
Company share, TWh



**CFFO\***  
B\$



**Net Cash Flow positive by 2028**



SK Resolute LNG Carrier

# Investing in TotalEnergies

# Delivering cash flow growth supporting distribution growth

## CFFO growth 2023–28

at same price deck\*\*

Upstream Oil & Gas +3 B\$

Downstream & low-carbon molecules +1 B\$

Integrated Power +2 B\$

→ +6 B\$

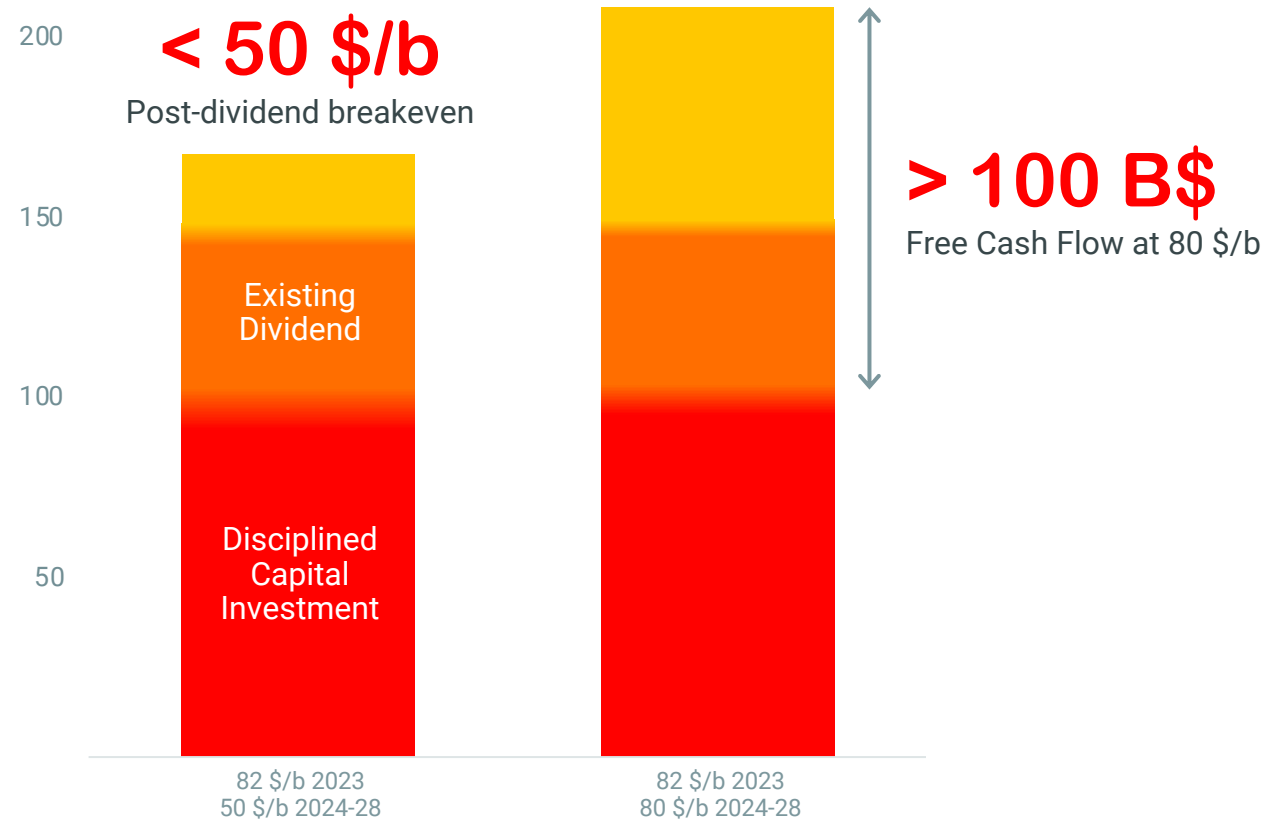
## 2023 CFFO sensitivities

+3.0 B\$/y for +10 \$/b Brent

+0.4 B\$/y for +2 \$/Mbtu NBP/TTF

+0.5 B\$/y for +10 \$/t Eur. Ref. Proxy

## 2023–28 CFFO\* B\$



\* CFFO excluding working capital variation (excl. Russia). 2023 at 82 \$/b Brent, 12.5 \$/Mbtu TTF, 115 \$/t European Refining Proxy.

2024-28: 8 \$/Mbtu TTF, 35 \$/t European Refining Proxy.

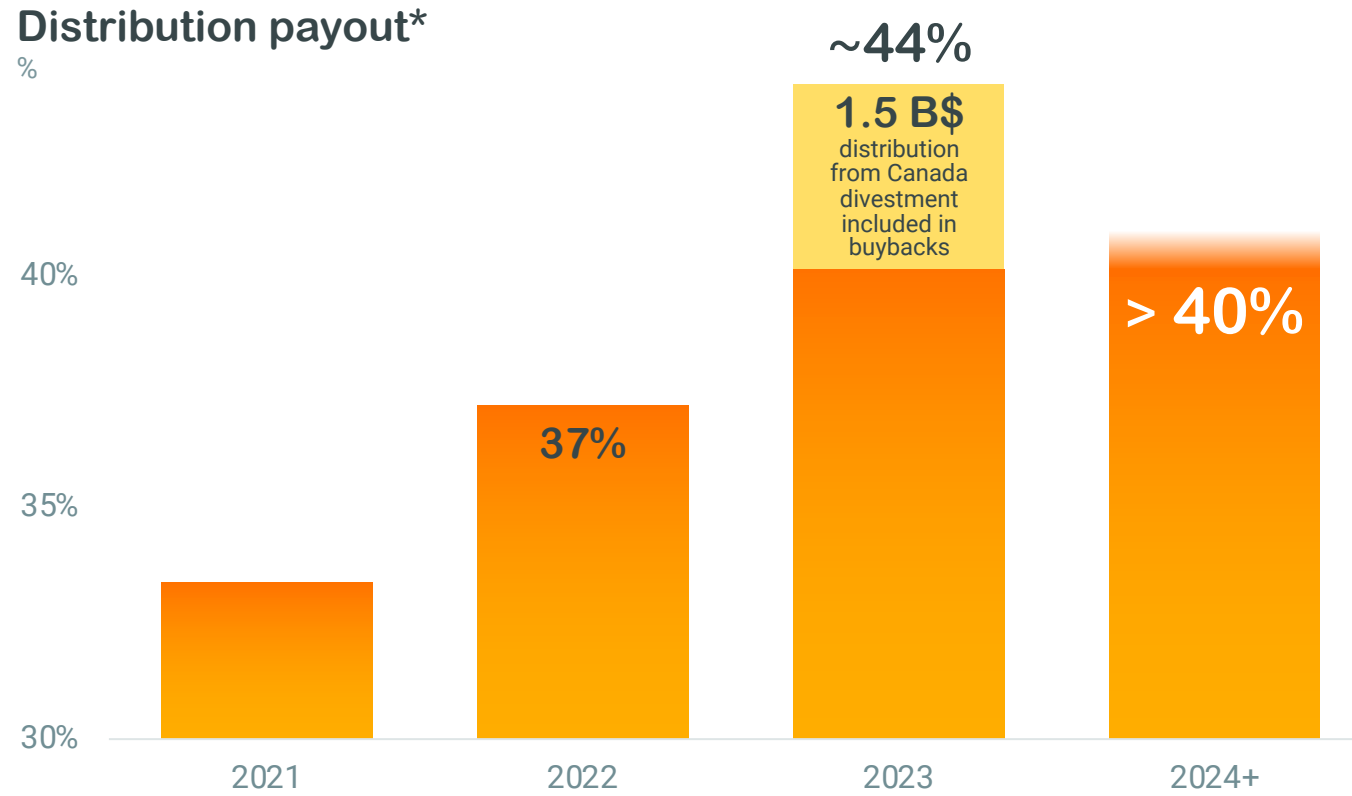
\*\* Nominal



# Growing shareholders distribution to > 40% of cash flow 2023+



Distribution payout\*  
%



9 B\$ buybacks in 2023

\* Paid dividends + share buybacks, as % of CFFO excluding working capital variation  
2023 payout assuming average 82 \$/b Brent, 12.5 \$/Mbtu TTF, 115 \$/t European Refining Proxy



# Bolstering our ESG leadership

Third-party ratings reinforcing TotalEnergies' case for inclusion in ESG portfolios

	CMD 2022		CMD 2023	Ranking vs peers*
<b>MSCI</b> 	A		AA	2 <sup>nd</sup> (tie)
 SUSTAINALYTICS	30 Medium Risk		28 Medium Risk	1 <sup>st</sup>
<b>ISS ESG</b> 	B- Prime		B- Prime	1 <sup>st</sup> (tie)
<b>MOODY'S</b>   ESG Solutions	60 Advanced		65 Advanced	n/a
<b>S&amp;P Global</b>	70		74	1 <sup>st</sup>
 CDP	A-		A-	1 <sup>st</sup> (tie)

\* Peers: BP, Shell, Exxon, Chevron, Eni, Equinor





# More energy, less emissions, growing cash flow



Cash flow growth, low breakeven portfolio and consistent cash allocation underpinning higher shareholder distributions

Sustainable,  
growing dividend

Capex 14–18 B\$/y  
through cycles

Fortress  
balance sheet

Surplus shared  
through buybacks

**> 40% payout through the cycles**





# Appendix



# Cash flow allocation



1

## Dividend

A sustainable ordinary dividend through the cycles  
(no dividend cut in 2020)

Dividend increase supported by share buybacks and underlying cash flow growth

2

## Capex

Capex supporting balanced multi-energy strategy

14-18 B\$/y through cycles

3

## Balance sheet

Grade A credit rating through the cycles

Flexibility to capture counter-cyclical opportunities

Targeting **AA** credit rating

4

## Surplus cash flow

Sharing surplus cash flow from high oil and gas prices through buybacks + special dividends in case of very high prices

2023

**+7.25%**

2023 interim dividends vs 2022

**16-17 B\$**

5 B\$ in Low-carbon Energies

**11%**

Gearing 1H23

**9 B\$** buybacks

**> 40% payout through the cycles**  
~44% in 2023 linked to surplus cash from Canada divestment

# Disclaimer



The terms "TotalEnergies", "TotalEnergies company" and "Company" in this document are used to designate TotalEnergies SE and the consolidated entities directly or indirectly controlled by TotalEnergies SE. Likewise, the words "we", "us" and "our" may also be used to refer to these entities or their employees. The entities in which TotalEnergies SE directly or indirectly owns a shareholding are separate and independent legal entities.

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Financial information by business segment is reported in accordance with the internal reporting system and shows internal segment information that is used to manage and measure the performance of TotalEnergies. In addition to IFRS measures, certain alternative performance indicators are presented, such as performance indicators excluding the adjustment items described below (adjusted operating income, adjusted net operating income, adjusted net income), return on equity (ROE), return on average capital employed (ROACE), gearing ratio, operating cash flow before working capital changes, the shareholder rate of return. These indicators are meant to facilitate the analysis of the financial performance of TotalEnergies and the comparison of income between periods. They allow investors to track the measures used internally to manage and measure the performance of TotalEnergies.

These adjustment items include:

## 1. Special items

Due to their unusual nature or particular significance, certain transactions qualifying as "special items" are excluded from the business segment figures. In general, special items relate to transactions that are significant, infrequent or unusual. However, in certain instances, transactions such as restructuring costs or assets disposals, which are not considered to be representative of the normal course of business, may qualify as special items although they may have occurred in prior years or are likely to occur in following years.

## 2. Inventory valuation effect

In accordance with IAS 2, TotalEnergies values inventories of petroleum products in its financial statements according to the First-In, First-Out (FIFO) method and other inventories using the weighted-average cost method. Under the FIFO method, the cost of inventory is based on the historic cost of acquisition or manufacture rather than the current replacement cost. In volatile energy markets, this can have a significant distorting effect on the reported income. Accordingly, the adjusted results of the Refining & Chemicals and Marketing & Services segments are presented according to the replacement cost method. This method is used to assess the segments' performance and facilitate the comparability of the segments' performance with those of its main competitors.

In the replacement cost method, which approximates the Last-In, First-Out (LIFO) method, the variation of inventory values in the statement of income is, depending on the nature of the inventory, determined using either the month-end prices differential between one period and another or the average prices of the period rather than the historical value. The inventory valuation effect is the difference between the results under the FIFO and the replacement cost methods.

## 3. Effect of changes in fair value

The effect of changes in fair value presented as an adjustment item reflects, for trading inventories and storage contracts, differences between internal measures of performance used by TotalEnergies' Executive Committee and the accounting for these transactions under IFRS.

IFRS requires that trading inventories be recorded at their fair value using period-end spot prices. In order to best reflect the management of economic exposure through derivative transactions, internal indicators used to measure performance include valuations of trading inventories based on forward prices.

TotalEnergies, in its trading activities, enters into storage contracts, whose future effects are recorded at fair value in TotalEnergies' internal economic performance. IFRS precludes recognition of this fair value effect.

Furthermore, TotalEnergies enters into derivative instruments to risk manage certain operational contracts or assets. Under IFRS, these derivatives are recorded at fair value while the underlying operational transactions are recorded as they occur. Internal indicators defer the fair value on derivatives to match with the transaction occurrence.

The adjusted results (adjusted operating income, adjusted net operating income, adjusted net income) are defined as replacement cost results, adjusted for special items, excluding the effect of changes in fair value.

Euro amounts presented for the fully adjusted-diluted earnings per share represent dollar amounts converted at the average euro-dollar (€-\$) exchange rate for the applicable period and are not the result of financial statements prepared in euros.

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For more information go to  
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