

Papua LNG 17th PNG Resources & Energy Investment Conference

Mr. Thomas Maurisse, Senior Vice President, TotalEnergies Exploration & Production Asia Pacific

Sydney- 11-13th December 2023

The Energy Transition's Three Challenges





Ensuring that the world's growing population has access to the **affordable energy** necessary for human development



Decarbonising Energy

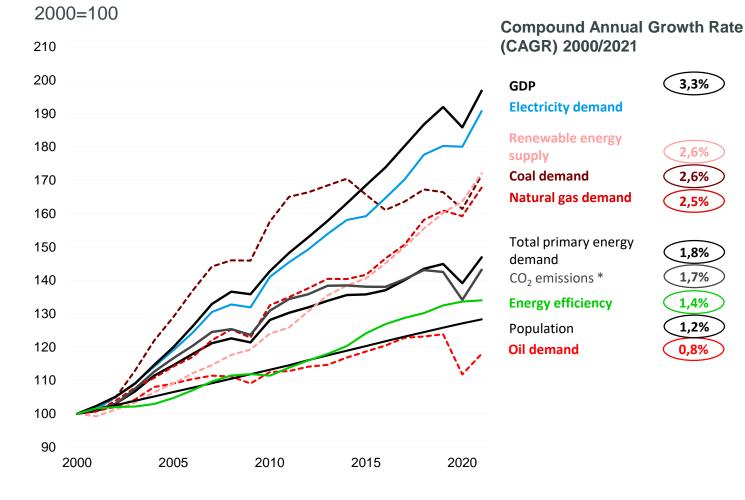
Decarbonising energy to limit the effects in terms of Greenhouse Gases (~2/3 of which come from energy)

The Energy Transition has started

Primary energy demand and emissions* are growing less rapidly than GDP



Evolution of a selection of indicators



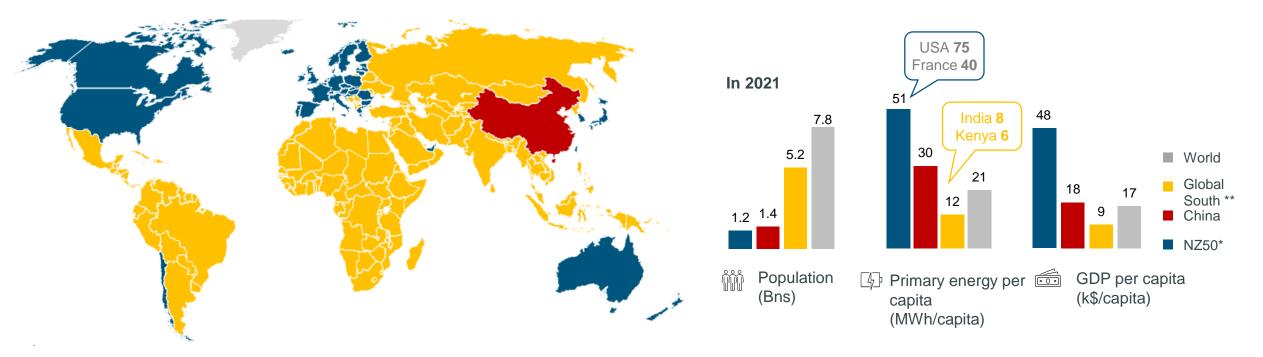
Nate Over the last 20 years, better energy usage has led to decoupling energy demand growth from GDP growth

This decoupling has been visible since 2000 for oil demand which has grown at the same pace as population until 2019, and since 2015 for coal (which, however, has grown at the same rate as renewables over 2000-2021)

Over the past five years, the increase in renewable energy production has met 40% of the growth in primary energy demand

The Energy Transition will differ across countries Analysis in three blocks : NZ – Global South - China





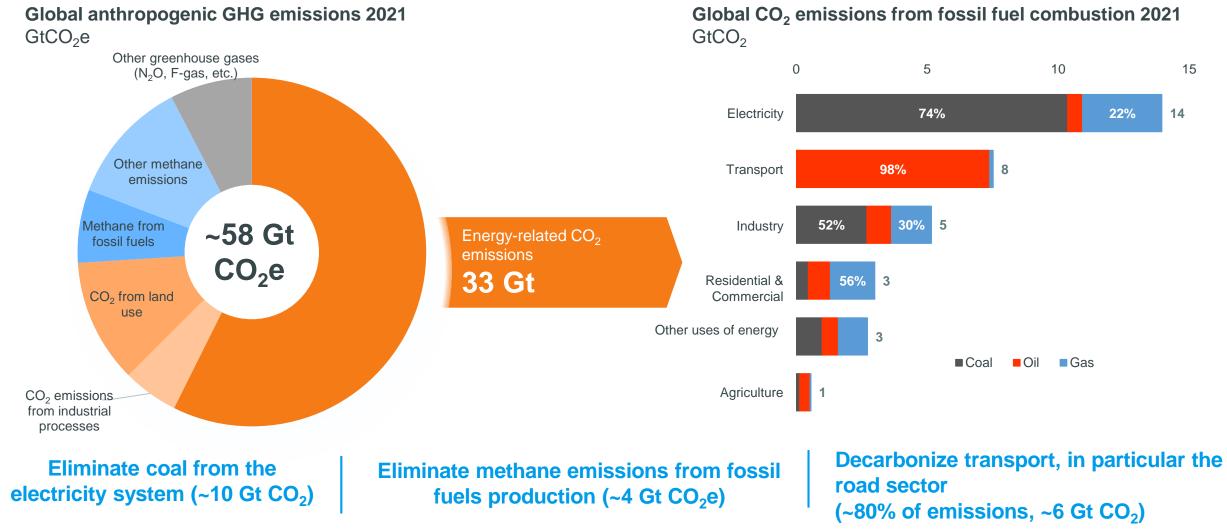
- The energy transition does not have the same meaning for NZ50* countries' inhabitants and those in Global South** who have access to less than 10 MWh/year on average (~4 billion out of 5.2 billion)
- It must meet the Global South's** legitimate aspiration to higher living standards: poverty alleviation, access to health and education, which means first and foremost access to energy

^{*} The 40 countries, mainly OECD countries, that have committed to net carbon neutrality by 2050

^{** «} Global South » here does not include China, since its energy demand's evolution is now closer to NZ50 countries

High impact actions to curb emissions





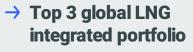
TotalEnergies – Two pillars: Oil & Gas + Integrated Power





- → Low cost, low emission
- → Rich upstream projects portfolio
- 2023 key indicators





→ Strong LNG project pipeline

> 40 Mt

LNG sales





- $\ \, \rightarrow \ \, {\rm Driving \ value} \\ {\rm from \ integration}$
- ightarrow Positive net cash flow by 2028

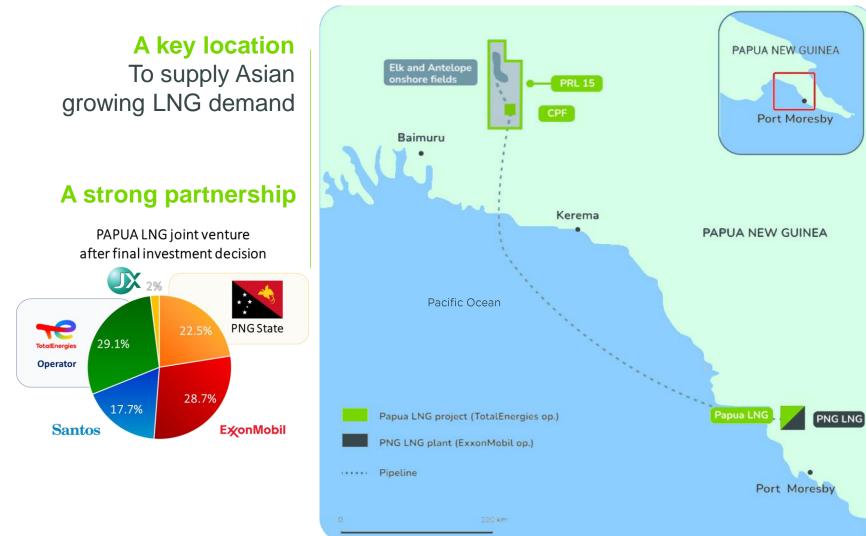
> 30 TWh Electricity generation

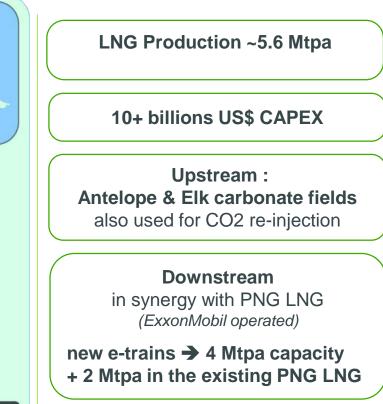
100 тwh Ву 2030

Papua LNG Project



A unique adventure in the land of the unexpected





ones
2023
2024
2028

Papua LNG : Flagship for Papua New Guineans, for sustainability





Growing Papua New Guinea economy

- → ~36 billions Kina investment
- → ~1.4 billions Kina/y revenues in average for the first 10 years of production
- → Up to 6000 local jobs at peak of construction
- → Sponsor of WAN PNG, national recruitment platform
- → Positive business activity for local companies and local employment

Shari

Sharing Benefits

- → Led by the PNG State
- → Shared Benefits to State, Province, District, Landowners
- \rightarrow Long term fund for future generation

Emissions and Environment

- \rightarrow Native CO₂ reinjection into reservoir from day 1
- → Reducing the initial footprint by 30%, synergies with existing Liquefaction Plant to reduce footprint
- → New electric LNG trains: E-trains fed by a solar farm (~70MW) and an efficient CCGT
- → Reforestation program, 1000ha within 10y
- → Monitoring all species, nurseries for rare species
- → Mangrove Nursery and Awareness Center project
- → Conservation Areas, in partnership with Communities and Forest Authorities



Contributing to local welfare

- → Constant dialogue:
 - Deployment of Communities and Villages Liaison Officers
 - Transparency and information
- → Training and Scholarships :POMTECH, UNITECH, DON BOSCO
- \rightarrow Socio economic projects:
 - Support to Kapuna Rural Hospital and medevac for injured people;
 - Aids posts, water tanks.
 - Adult Literacy Program



TANKIU TRU NAMO

Disclaimer and copyright reservation



Definition - TotalEnergies / Company

The entities in which TotalEnergies SE directly or indirectly holds an interest are separate and independent legal entities. The terms "TotalEnergies", "TotalEnergies company" and "Company" used in this document are used to refer to TotalEnergies SE and its affiliates included in the scope of consolidation. Similarly, the terms "we", "us", "our" may also be used to refer to these entities or their employees. It cannot be inferred from the use of these expressions that TotalEnergies SE or any of its affiliates is involved in the business or management of any other company of the TotalEnergies company.

Disclaimer

This presentation may include forward-looking statement within the meaning of the Private Securities Litigation Reform Act of 1995 with respect to the financial condition, results of operations, business, strategy and plans of TotalEnergies that are subject to risk factors and uncertainties caused by changes in, without limitation, technological development and innovation, supply sources, legal framework, market conditions, political or economic events.

TotalEnergies does not assume any obligation to update publicly any forward-looking statement, whether as a result of new information, future events or otherwise. Further information on factors which could affect the company's financial results is provided in documents filed by TotalEnergies with the French *Autorité des Marchés Financiers* and the US Securities and Exchange Commission. Accordingly, no reliance may be placed on the accuracy or correctness of any such statements.

Copyright

All rights are reserved and all material in this presentation may not be reproduced without the express written permission of TotalEnergies.