

## TotalEnergies's Renewable Energy Ambition in Kazakhstan



Thierry Plaisant - Managing Director TotalEnergies Renewables for Kazakhstan



## TotalEnergies: a major player in the energy transition





Be a multi-energy company committed to supplying energy that is reliable, affordable, sustainable and accessible to as many people as possible



Meet the challenge of more energy, fewer emissions alongside our customers, stakeholders and society as a whole to contribute to our planet's sustainable development and effectively address the issue of climate change



Produce and market fuels, natural gas and electricity while promoting renewable, decarbonized energies



An objective of Net Zero by 2050, together with society







## ELECTRICITY, the energy of the 21st century



Demand for electricity is growing faster than primary energy demand throughout the world, including within the OECD

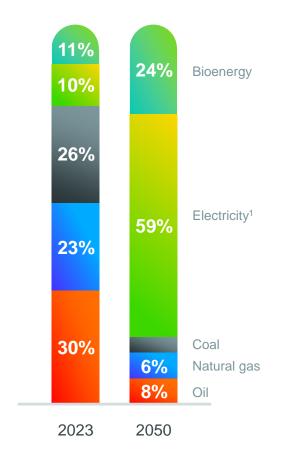
**Every sector of the economy** is going electric

One ambition: to become an integrated power player, ranked among the world's top ten power producers (exc. China)

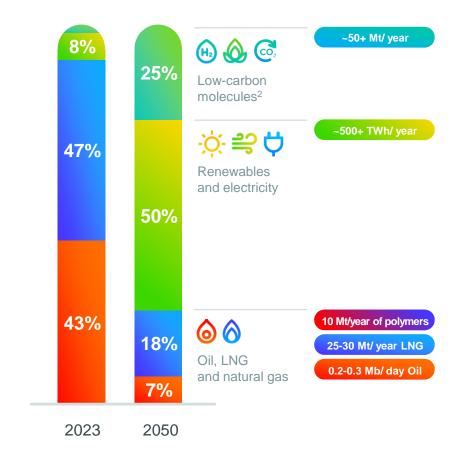
One objective: make profitable investments in renewables and electricity







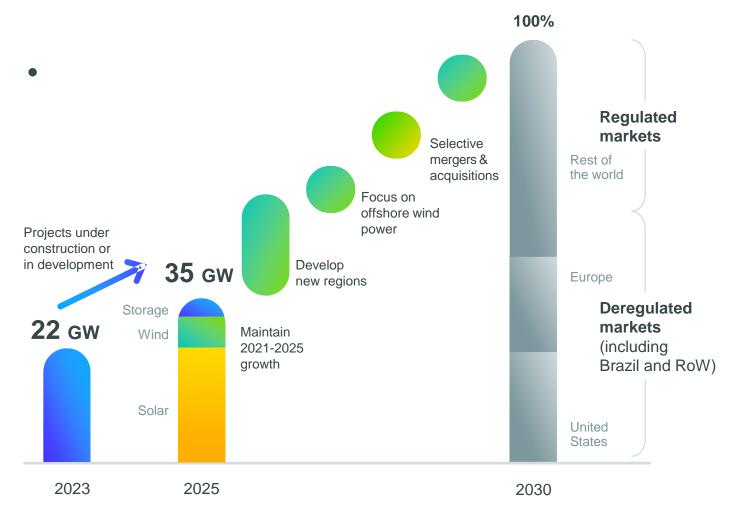
#### 2050 TotalEnergies' sales mix





# From a renewable energy producer... among the LEADING producers of renewable energies by 2030







## **100** gw

of gross renewable power generation capacity by 2030



## Capitalize on TotalEnergies' global footprint

A strong presence in renewables in Europe, India and the United States



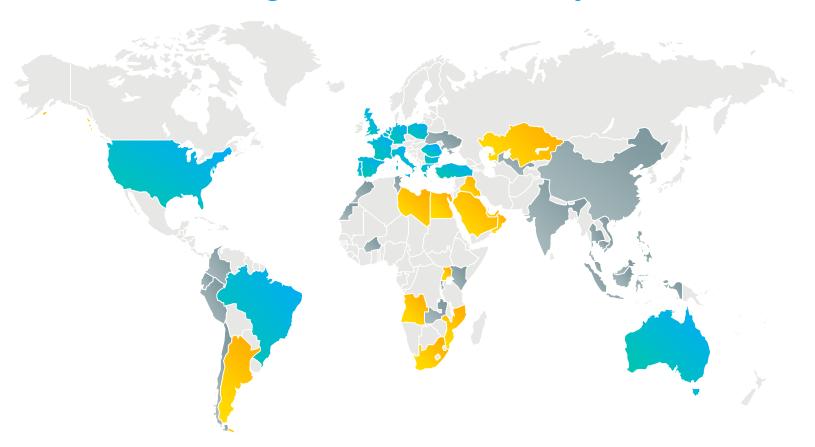
## Leverage the Company's critical expertise in offshore wind power

A portfolio totaling more than 16 GW

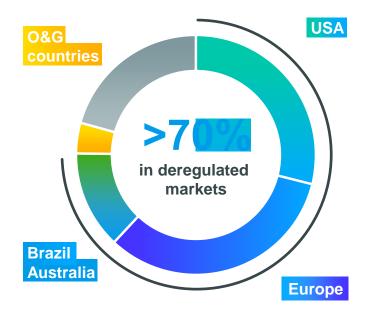


# Focus on deregulated markets to leverage market volatility





Power Generation by geography





### **TotalEnergies in Kazakhstan**



#### **Exploration & Production**

#### Kashagan

- Complex offshore sour oil and gas field (15% H<sub>2</sub>S, 5% CO<sub>2</sub>)
- Non-operated, PSA (until 2041)

















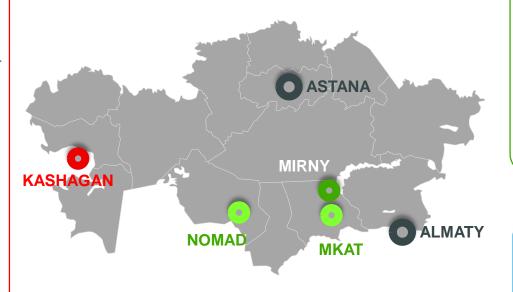
**16.8%** 16.8% 16.8% 16.8% 16.9% 8.3% 7.6%



#### **OFFICES**

#### Astana:

EP & REN main offices



#### Marketing & Services

- Based in Almaty
- 8000 t/y lubricant sales for light cars and heavy machinery

#### RENEWABLES

#### M-KAT - Solar 100 MWp

- Generation of 176 GWh/year
- PPA for 15v
- Commissioning date: December 2019

#### NOMAD - Solar 28 MWp

- Generation of 49 GWh/year
- PPA for 15v
- Commissioning date: December 2019

#### A reliable partner for Kazakhstan

- Long-standing relationship (since 1992) and trusted partner with the Government of RoK
- Multi-energy presence: both renewable energies and Oil and Gas with the capacity and resources to handle big scale multi-energy projects

shares

### **The Mirny Wind and Energy Storage Project**



#### **The Project**

First of a kind in Kazakhstan:



~130-150

wind turbines



300 MW / 600 MWh

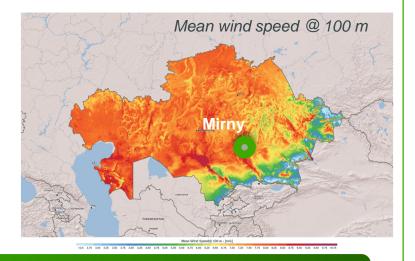


CO<sub>2</sub> savings 3.2 Mt / year



CAPEX ~1.4 G\$

- Inter Governmental Agreement signed between France and Kazakhstan
- PPA & investment agreement signed in 2023
- Land and grid secured
- Wind measurement campaign & Technical studies ongoing



Successfully Complete MIRNY Project → 1st Priority

#### **Project goals**

- First renewable energy gigaproject initiated in the country
- Supply of green electricity for 1 million people, preventing the emission of 3.5 million tons of CO<sub>2</sub> annually
- Development of educational initiatives in collaboration with local universities to enhance local capital development
- Setting up of a BESS Technical Expertise Centre

#### **Ownership structure**



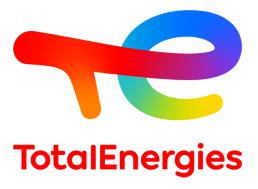




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## Thank you