



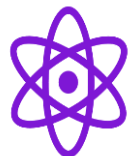
MESA REDONDA



ADVERSIDADES E OPORTUNIDADES NA



TRANSIÇÃO PARA ENERGIA SUSTENTÁVEL



EXPLORANDO AS **TECNOLOGIAS NUCLEARES**

PROMOÇÃO



09 Maio 2024



EGN – Escola de Guerra Naval
Rio de Janeiro, RJ

Amilcar Guerreiro



Founder & CEO



enetec

ENERGIA & TECNOLOGIA

AREAS

PARTNERSHIPS

Creating a knowledge ecosystem to foster business opportunities in *sustainability and energy transition*

PROJECTS

Research, Development, and Innovation (R&D+I)
Projects on Energy Efficiency

CONSULTANCY

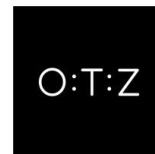
Development of specific studies: asset management; energy consumption in cryptocurrency mining

STRATEGY

Analytical studies on current topics: *energy transition* and *energy planning*



Clients and Partners



ONE:TIME:ZONE

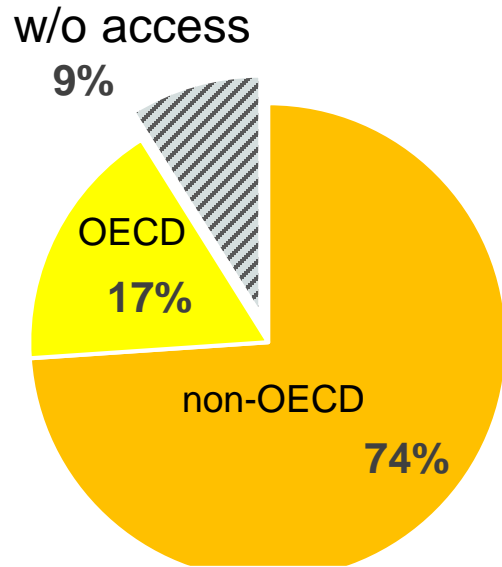


WHAT DOES THE
TRANSITION TO
SUSTAINABLE ENERGY
MEAN?

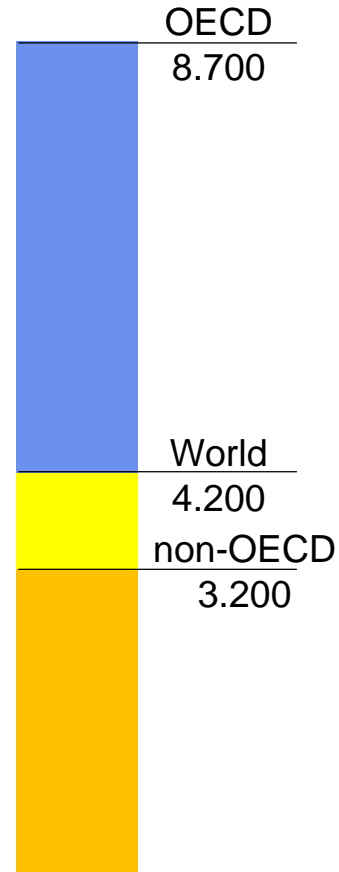


Ensure access to
affordable, reliable,
sustainable and
modern energy for all

ACCESS TO ELECTRICITY



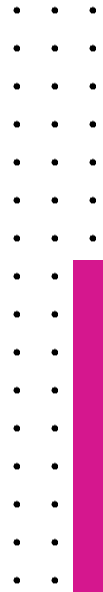
Average Consumption per Capita (kWh/yr)



Providing universal access to electricity could boost global energy consumption by as much as 10%



If the population of non-OECD countries were to consume energy at the global average rate, world energy consumption would increase by 30%



World population, 2017 (x10 ⁶)	
OECD	1,300
non-OECD w/access	5,600
non-OECD w/o access	675
WORLD	7,575

Note: figures are rounded

Sources

Tracking SDG 7: The Energy Progress Report 2023 (WB, IEA, IRENA)
 Statistical Review of Worlds Energy 2023 (Energy Institute: KPMG, Kearney)
 World Development Indicators 2018 (World Bank)

TRENDS ON SUSTAINABLE AND MODERN ENERGY

electrification



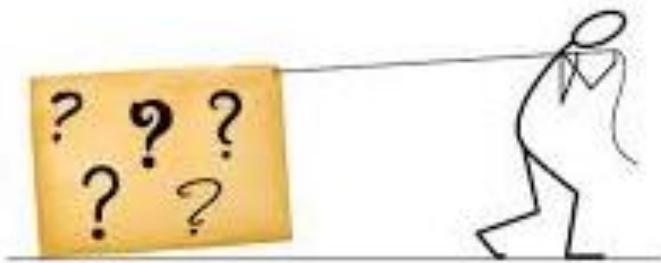
renewables



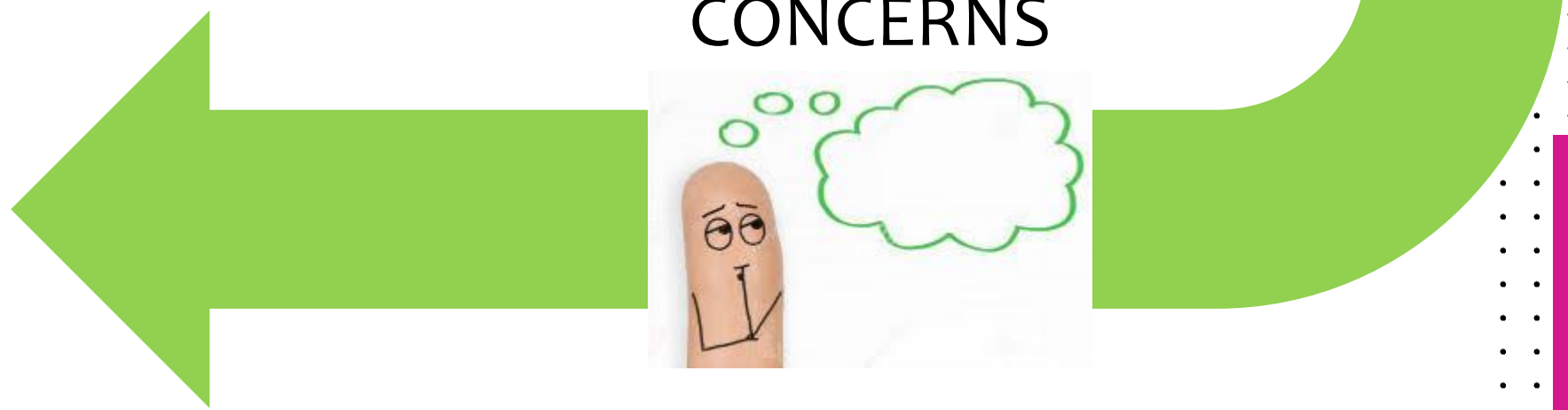
consumers choices



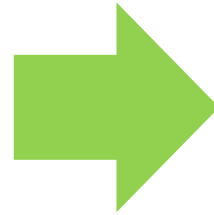
QUESTIONS



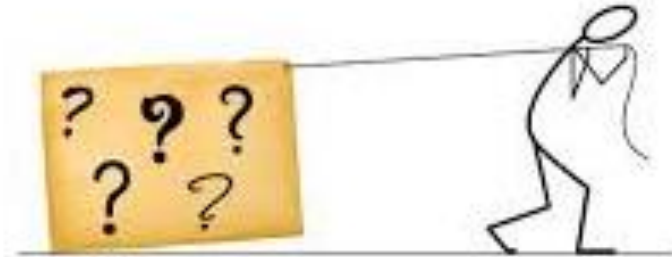
CONCERNS



CONCERNS



QUESTIONS



Increase in electricity consumption



Increase in energy cost



Energy security



Are sufficient **energy resources available**?



Are there technological solutions available to **ensure affordability**?



Can system **reliability and resilience be guaranteed**?



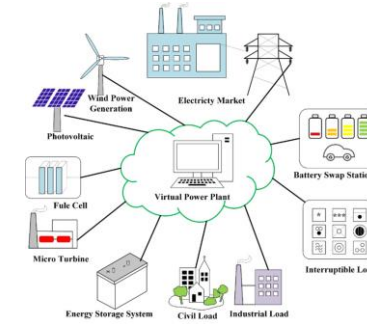
REQUIREMENTS AND SOLUTIONS ON THE AGENDA

REQUIRED ATTRIBUTES

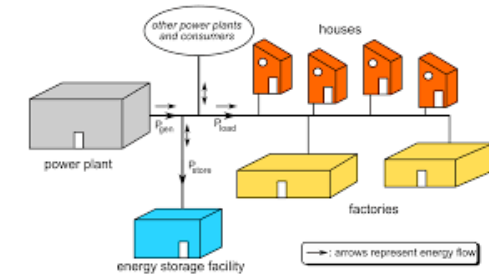
- RELIABILITY
- FLEXIBILITY
- RESILIENCE
- LOW CARBON EMISSIONS



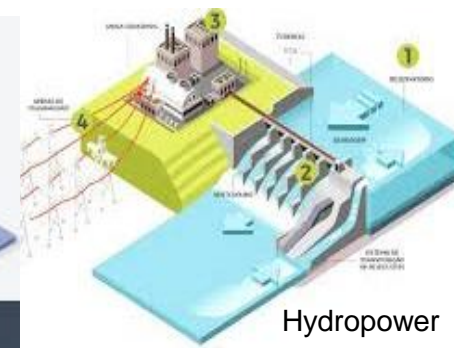
- virtual power plants



- energy storage systems



- dispatchable generation





Thank you for your attention!



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