# LITHUANIAN NATIONAL ENERGY INDEPENDENCE STRATEGY – A ROADMAP FOR THE FUTURE

2023-05-22



OF THE REPUBLIC OF LITHUANIA



# **ENERGY INDEPENDENCY – KEY NATIONAL GOAL SINCE 1990**

### **Oil Terminal**



At 1999 Butingė Oil Terminal becomes operational

### **LNG Terminal**



From 2014 – diversification from Russian gas

### **Power Links**



In 2015 connection with Poland and next year with Sweden

### **Biomass for DH**



Transition from gas to biomass



## **NEXT STEP – MORE LOCAL POWER GENERATION**



#### Power generation in Lithuania 1990-2021



### LITHUANIAN GREEN TRANSITION TARGETS





### **RENEWABLE GOALS**



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### **RENEWABLE GROWTH IN LITHUANIA**



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## **TRANSPORT SECTOR GOALS**



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#### Biofuels

1st generation biofuels is the main source of renewable fuels in Lithuania. 1st and 2nd generation biofuels so far are the most efficient way for transport sector decarbonization. The goal for 2nd generation biofuels set at 3,5% level by 2030.

#### Electricity

Electrification is increasing each year and in a near future it will be a main source of renewable energy in transport sector. Lithuania supports the deployment of charging infrastructure and electric vehicles. **The goal is to have 16% share of electric vehicles in car park by 2030.** 

#### **Renewable gases**

Domestically produced biomethane and hydrogen will play a strong role in public and heavy duty transport decarbonization so infrastructure is being prepared in advance. It is planned to increase the share of renewable gases in the transport sector by 5% until 2030.

# THE TOOL TO REACH THEM – NATIONAL STRATEGY

- Since 2008 Lithuanian energy policy is guided by comprehensive national energy indepence strategy
- Updated every 5 years
- New <u>National Energy Independency Strategy</u> next year!
- Key objectives:
  - ✓ Energy independent by 2050 (or earlier);
  - ✓ 100% decarbonization;
  - ✓ Energy costs and affordability for <u>everyone;</u>
  - ✓ Become an energy exporter;
  - ✓ Pursue industrial growth;



## NATIONAL STRATEGY – INPUT FROM MANY SOURCES



Including input from other studies: heating and cooling, hydrogen development, etc.



## **LITHUANIAN POTENTIAL 2022-2050**









### **GRADUAL BUILD-OUT OF HYDROGEN ECONOMY**





## **FLEXIBILITY SOLUTION - P2X**



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MINISTRY OF ENERGY

- Excess wind and solar – to hydrogen (and other e-fuels)
- Key player energy islands
- H<sub>2</sub> power provider during idle seasons
- Export of valueadded products
- More cooperation between Baltics – bigger value for everyone

### **ENERGY STRATEGY – A WAY TO CONNECT EVERYTHING**



MINISTRY OF ENERGY OF THE REPUBLIC OF LITHUANIA

### THANK YOU FOR YOUR ATTENTION



