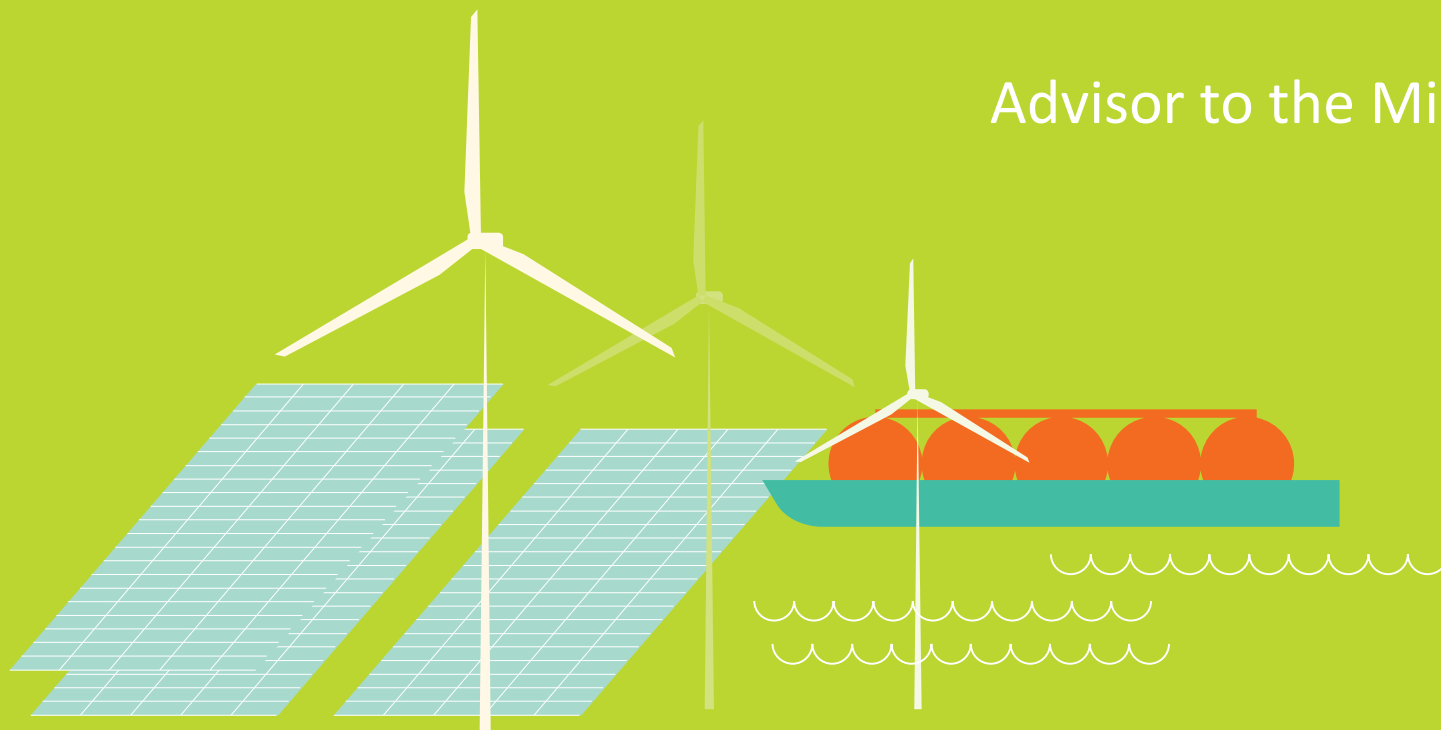


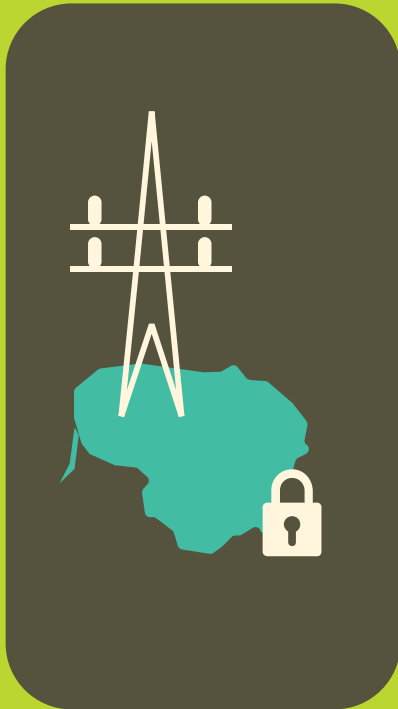
# New National Energy Independence Strategy

Advisor to the Minister of Energy  
**Rytis Kėvelaitis**

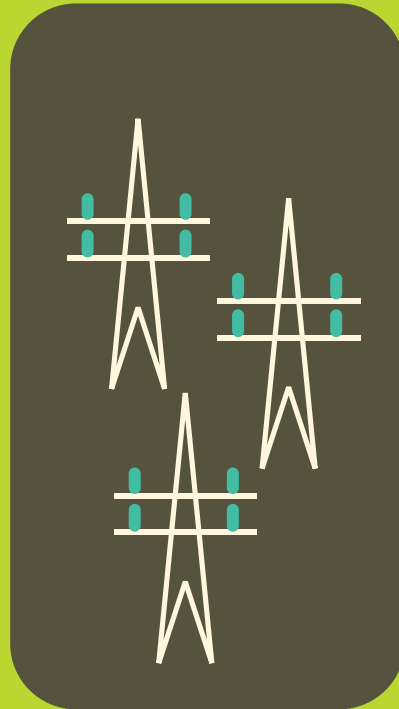


# Key developments in the last decade

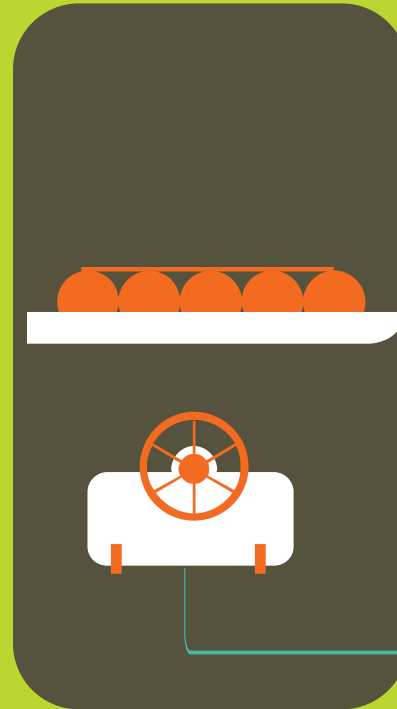
Decommissioning  
Ignalina NPP



New  
interconnectors



LNG terminal

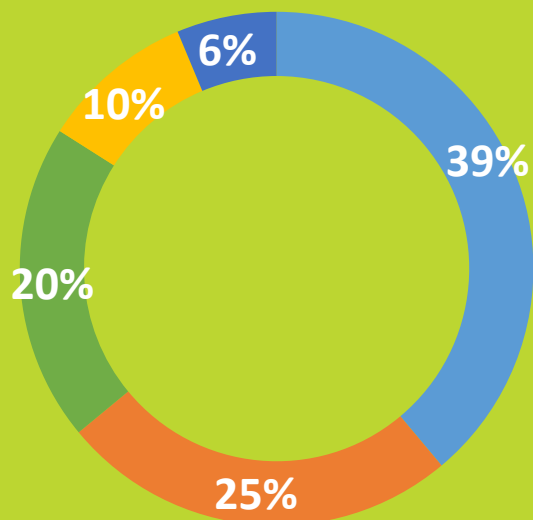


Gas to  
biomass



# Energy sector in Lithuania

## Gross inland energy consumption mix<sup>1</sup>



- Crude oil and petroleum
- Natural gas
- Renewable energy
- Electricity
- Coal, peat and other

## Key data - electricity<sup>2</sup>

### Consumption

10,76  
TWh

### Production

3,87  
TWh

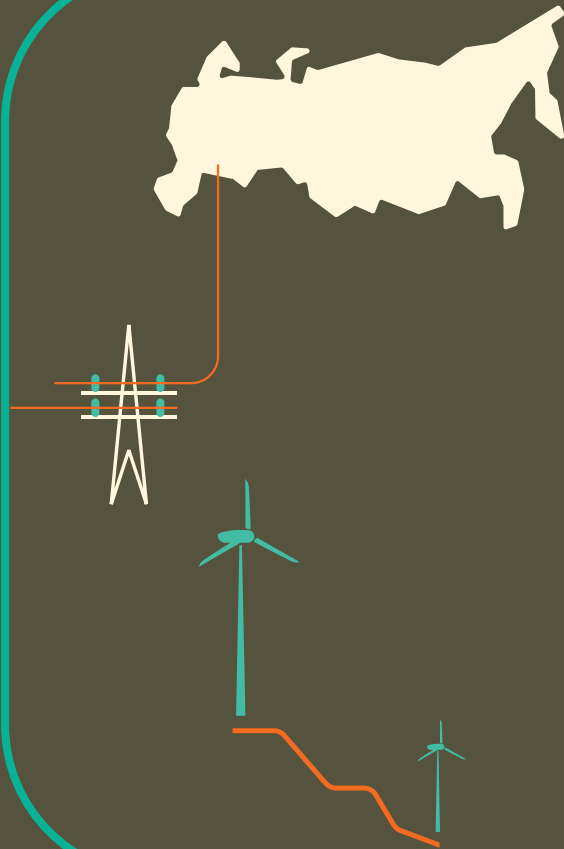
### Share of imports

74%

### Market price

35,1  
EUR/  
MWh

# Status Quo



**Since 2012, Lithuania's energy security level significantly improved.**

## **Remaining challenges:**



Strong dependency on the import of electricity

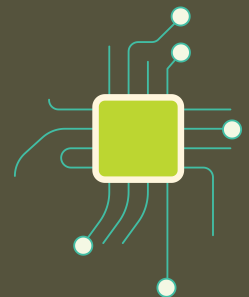
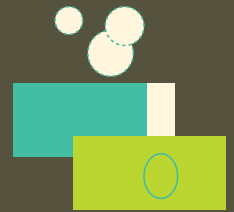
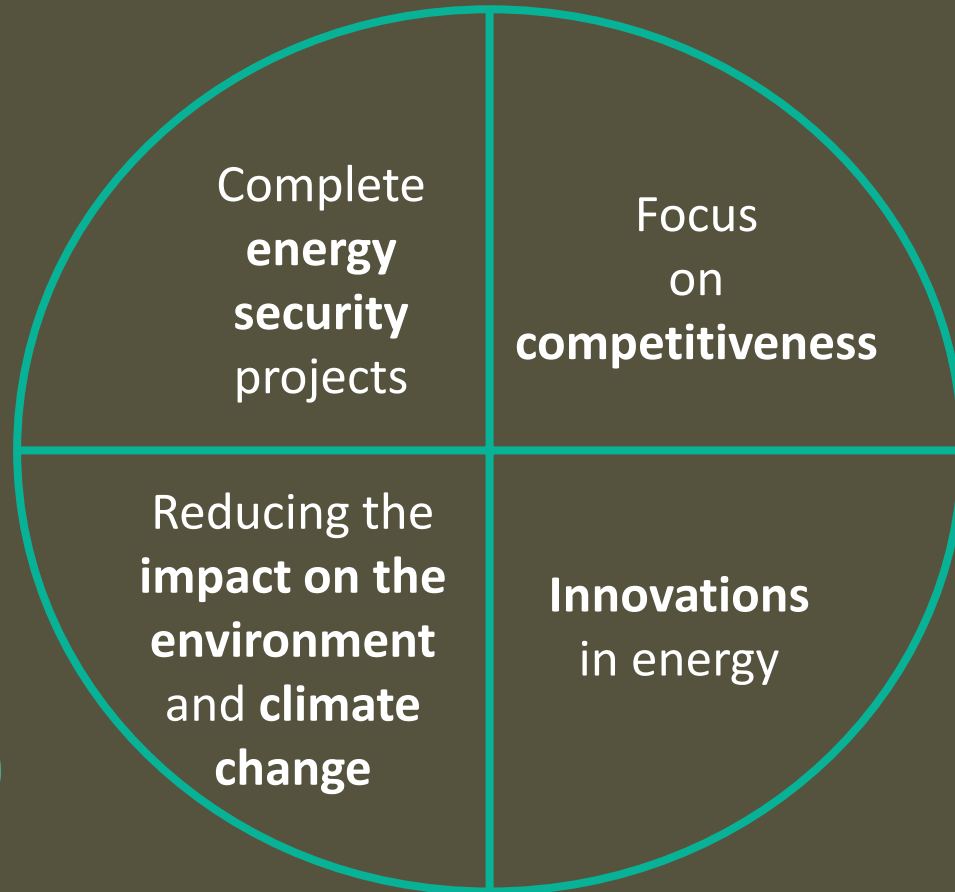
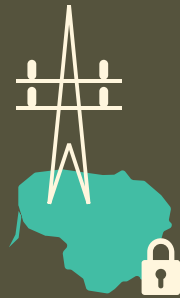


Remaining in the IPS/UPS electric energy system controlled by Russia

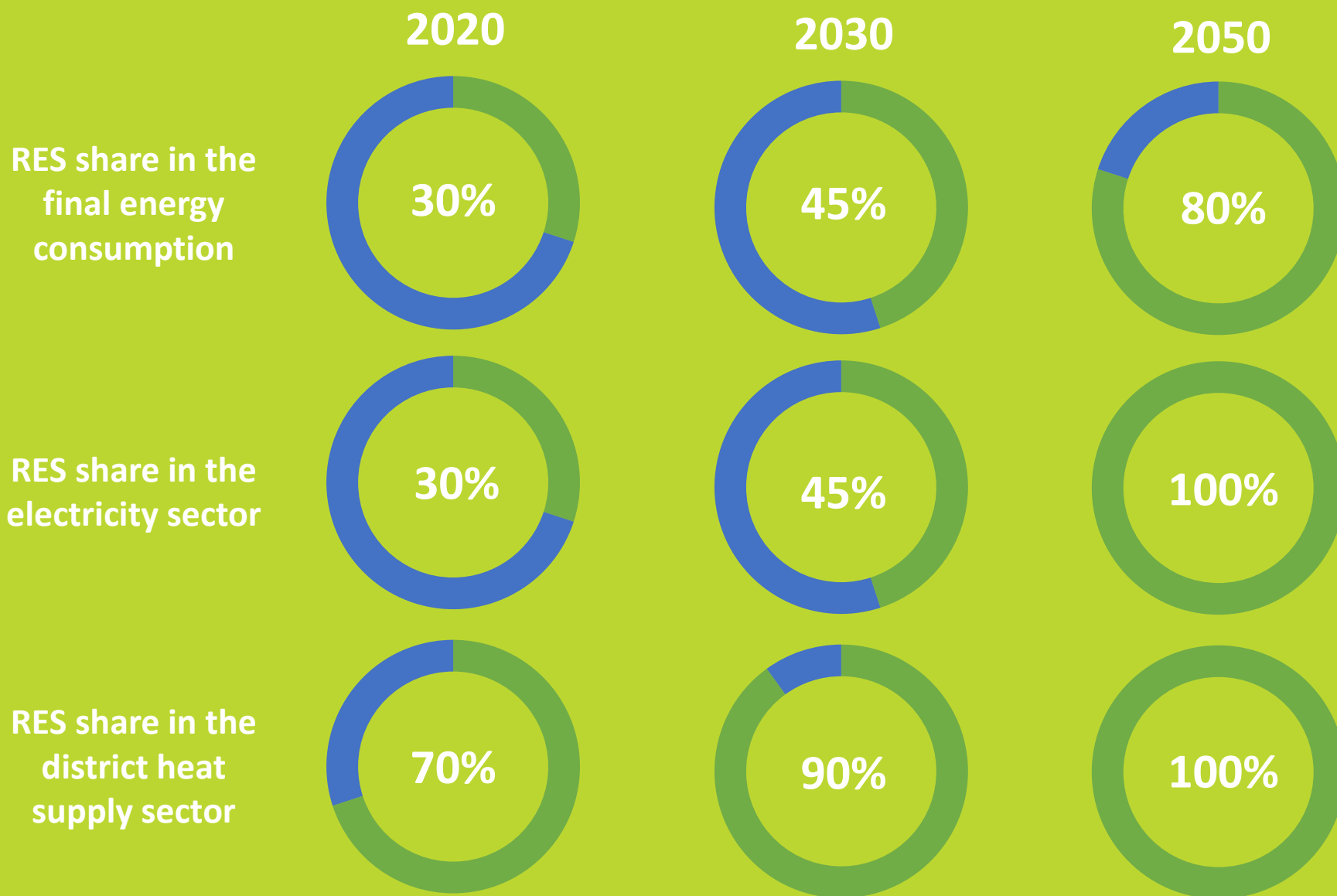


The dynamics of renewable energy have slightly slowed down

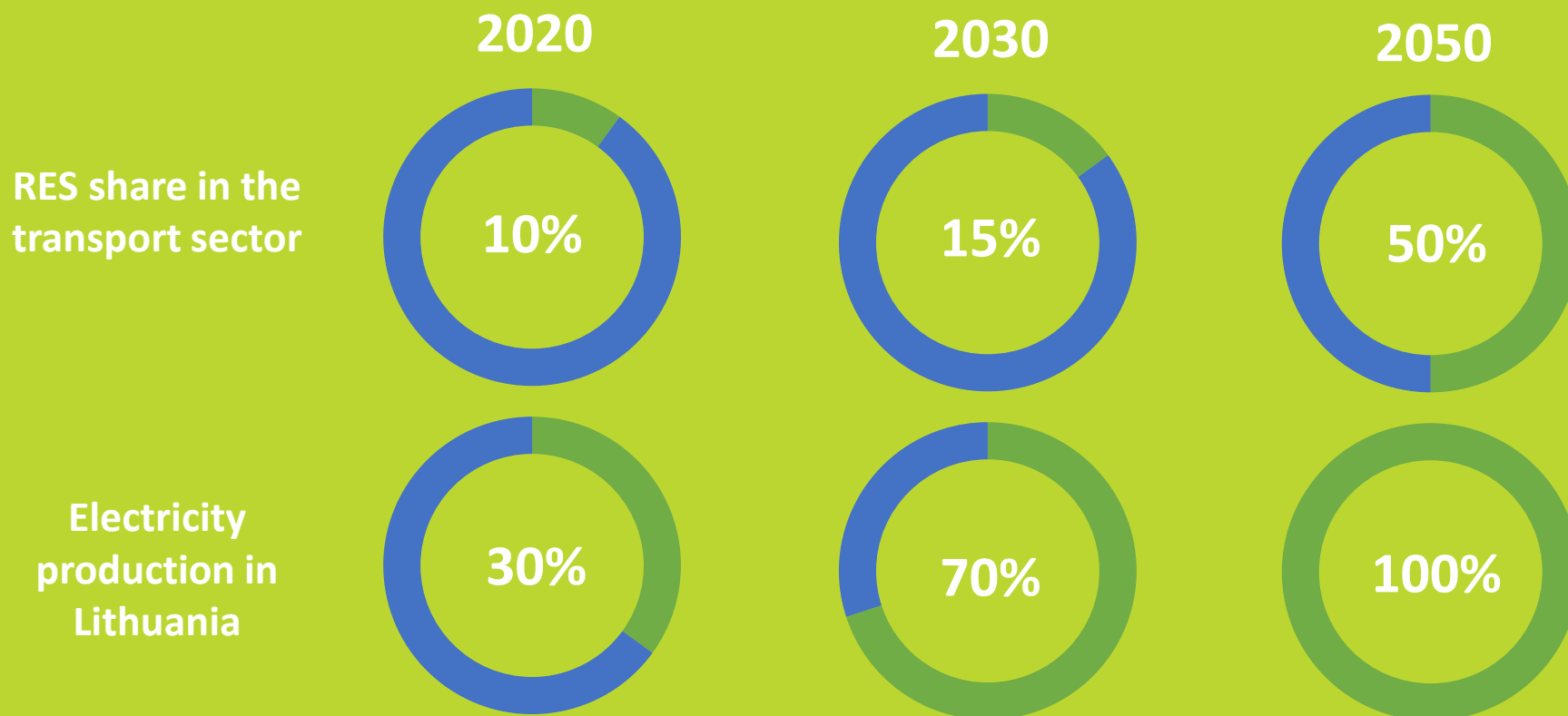
# Strategic pillars in the energy field



# Key targets for energy sector



# Key targets for energy sector (cont.)

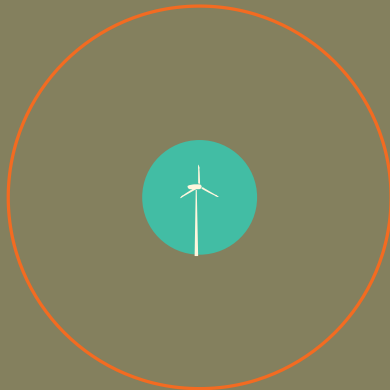


GREEN ENERGY



# The long-term vision of renewable energy development

By 2050 renewable energy will dominate in the sectors of electricity, heating and transport



2020 – up to 30%



2030 – up to 45%



2050 – up to 80%

Part of renewable energy in the gross energy consumption

# Renewable energy in Lithuania today

Surpassed 2020 EU targets in 2016<sup>1</sup>

Achievement in 2016

26%

Target for 2020

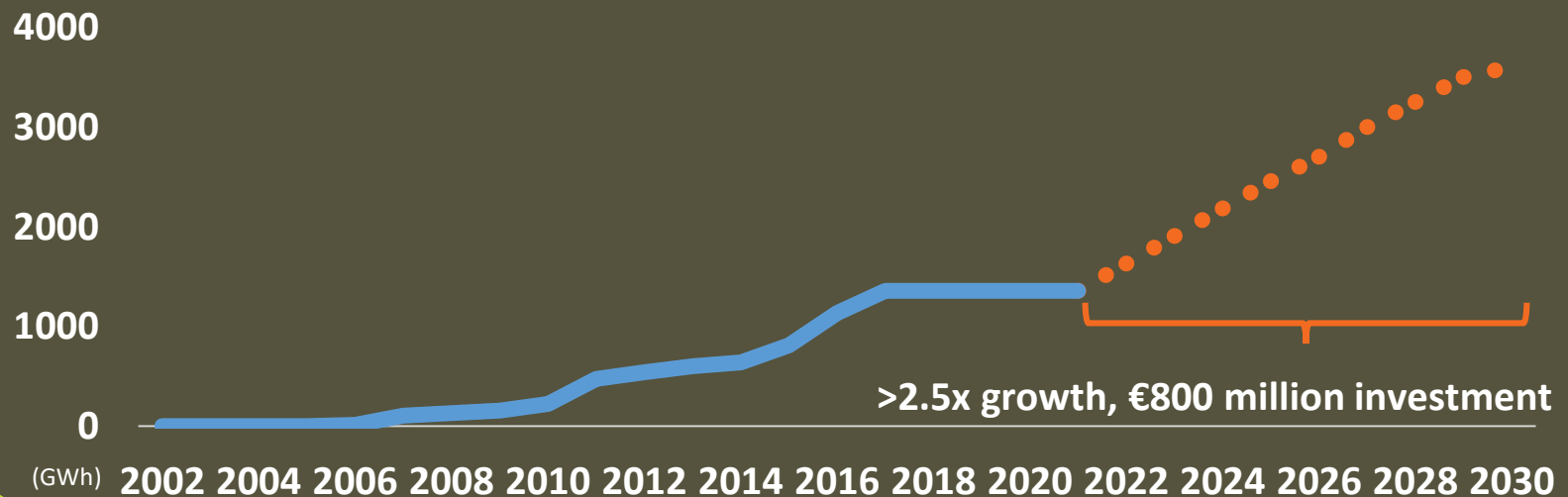
23%

First in the EU to sell the surplus of renewable energy



# Preparations for the large-scale renewable energy development

- Principles of development – development of the most effective technology and the lowest cost for consumers
- First technology neutral auctions – 2019 Q3



# Small-scale green energy: the rise of prosumers

Net metering

Removal of  
administrative  
burden (no  
permits up to  
5KW)

5 times shorter  
procedures—  
from 105 to 21  
days

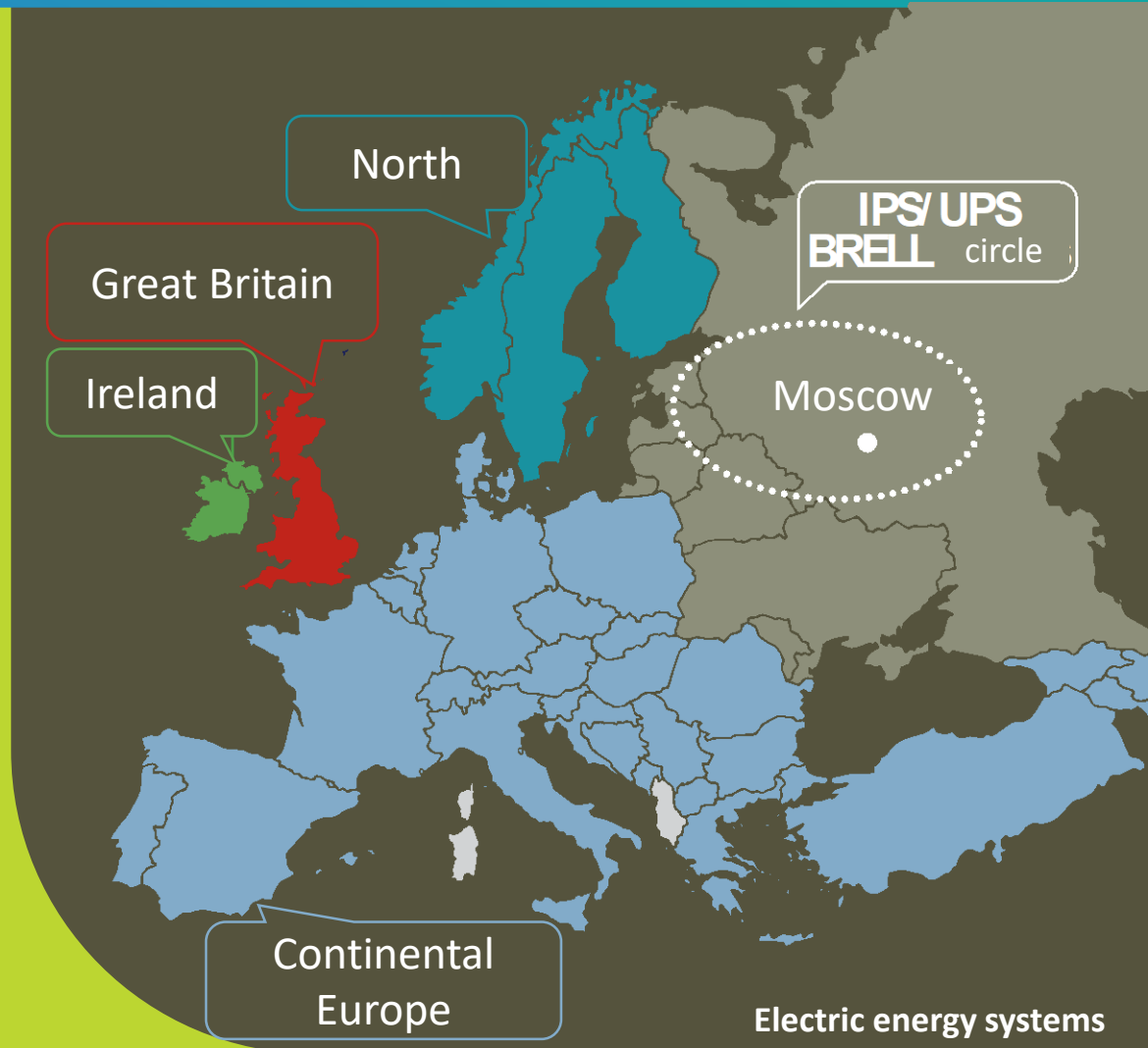
**34K prosumer  
target for 2021:**  
€150 million  
investment

€17M Eur for  
2019-20

# ENERGY SECURITY

# Synchronisation – major energy security project

- The Baltic States – the only ones in the EU with their electricity systems in the Soviet system
- No dependency of the energy system on third countries will remain
- Increasing the effectiveness of the market
- The most reliable measure to protect Lithuania from the unsafe Belarusian NPP
- €1.4 billion infrastructure project for Baltics and Poland



# „Independence“ LNG terminal – value for country and consumers

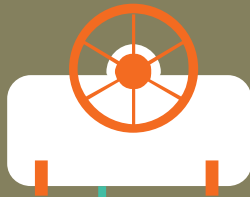
## COUNTRY SECURITY

Energy security – no dependency on the single supplier

Competition for LNG suppliers – 5 suppliers from 5 countries

One of EU leaders for the usage of the terminal (35%)

## COMPETITIVENESS OF ECONOMY



Alternative fuel in shipping and transport – small LNG development

LNG innovations, technology, competence and their export



INNOVATIONS



# Lithuania – the manufacturer and exporter of energy technologies

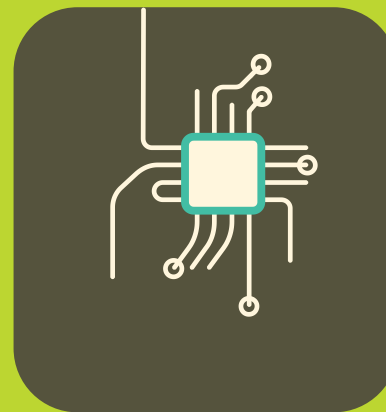
Biomass and  
biofuel  
technologies  
and  
competences



Solution for  
managing the  
energy market  
and the electric  
system



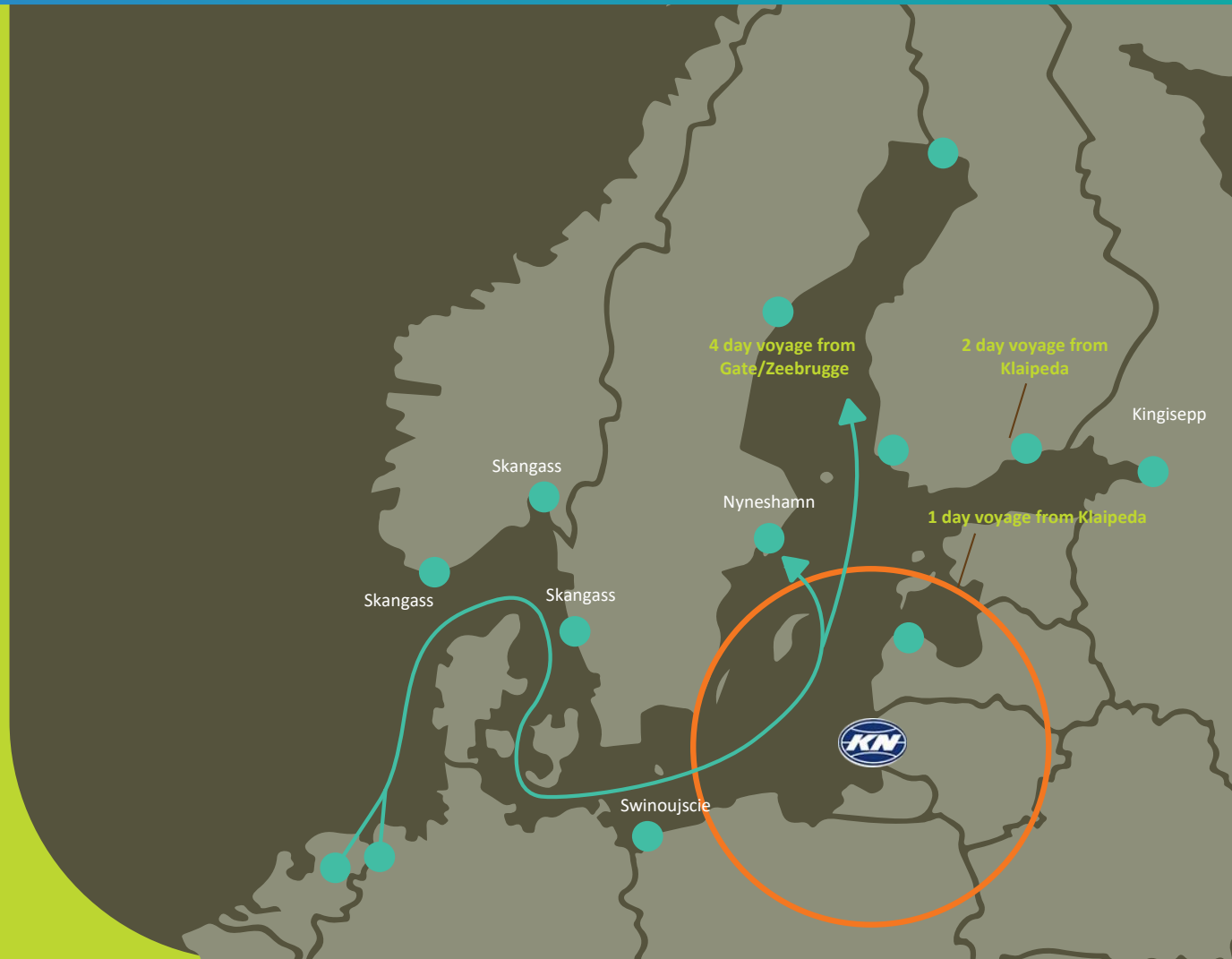
Solar and  
wind energy  
technologies



Competence  
and analysis  
center –  
Lithuanian  
Energy  
Agency

# Klaipėda – LNG allocation and competence center

- LNG use for ships
- LNG use for heavy transport
- LNG for business – LNG stations
- LNG supplied to consumers isolated from the natural gas grid



COMPETITIVENESS

# Regulatory changes for industrial consumers

## Done in 2017



**30%** shorter duration of electricity connection procedures

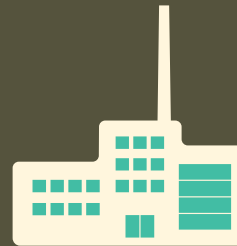


**30%** reduced price for connection of industry consumers to the electricity grid

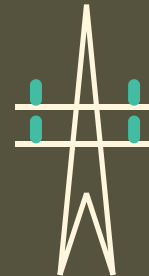


**35%** shorter duration of gas connection procedures

## Done in 2018



PSO exemption for electricity intensive industry



Opportunity to connect directly to the electricity grid



*Fast-track* procedures for electricity and gas grid installations

Thank you!

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