

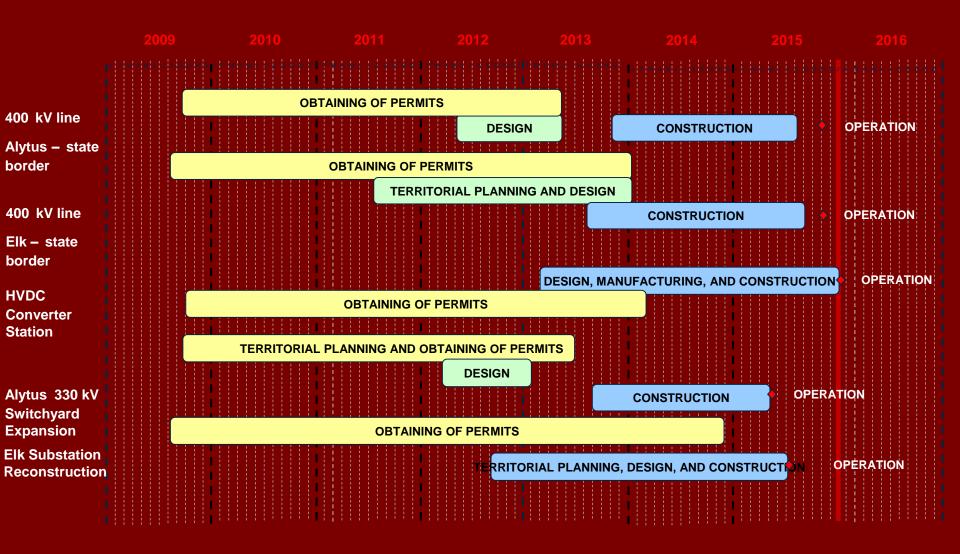
Litgrid 2015 Activity Report for Shareholders and the Public 27 April 2016, Vilnius



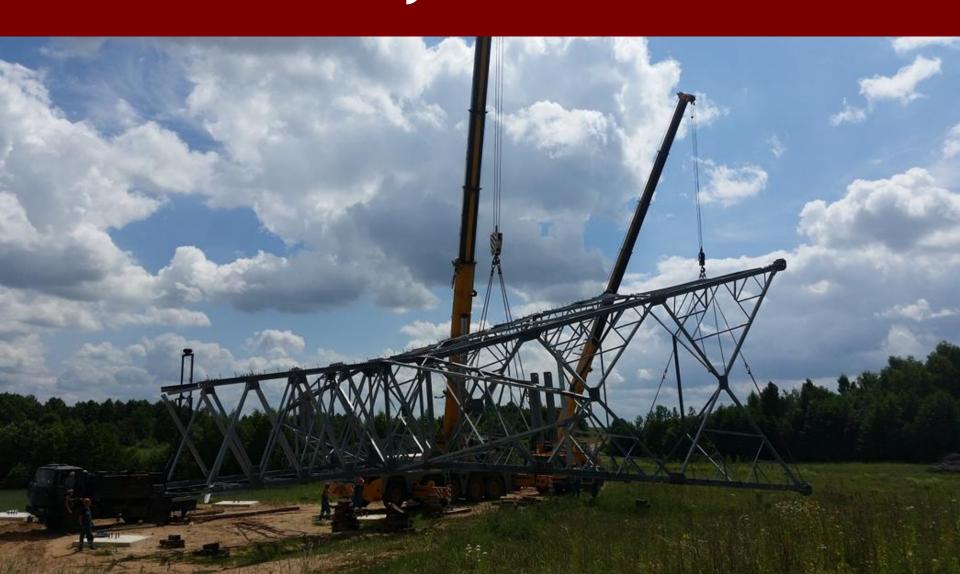




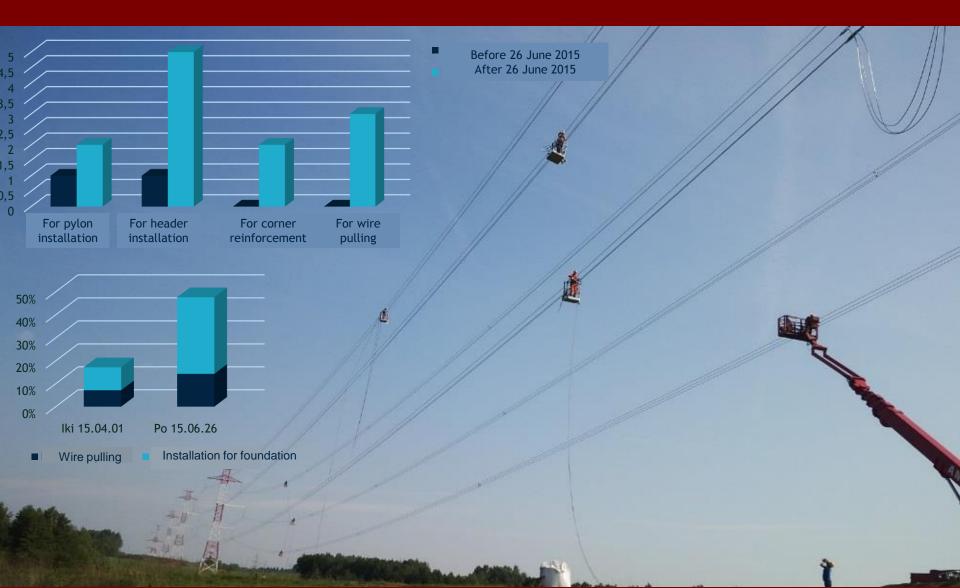
### LitPol Link implementation



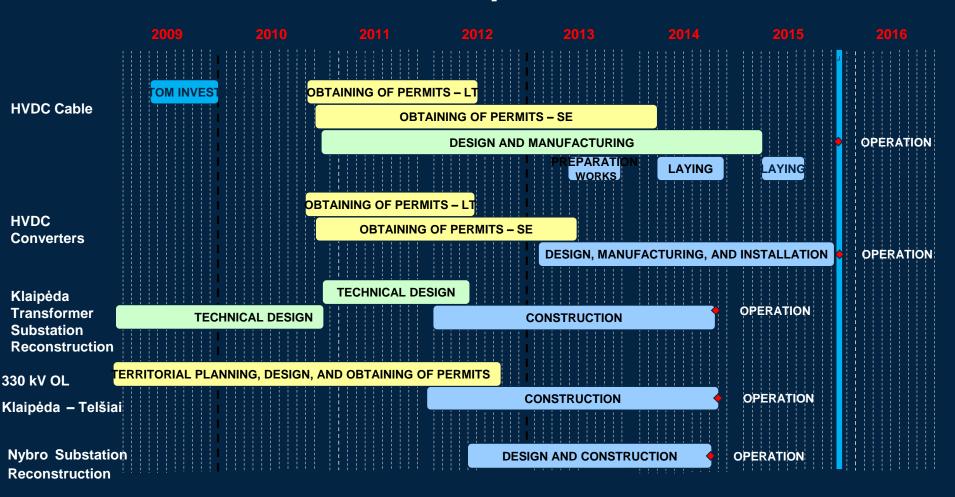
# Reinforcement of corner pylons on the line Alytus - state border



### Contract work resources of the line Alytus - state border before and after 26 June 2015



### NordBalt Implementation



# Horizontal drilling under the Curonian Spit



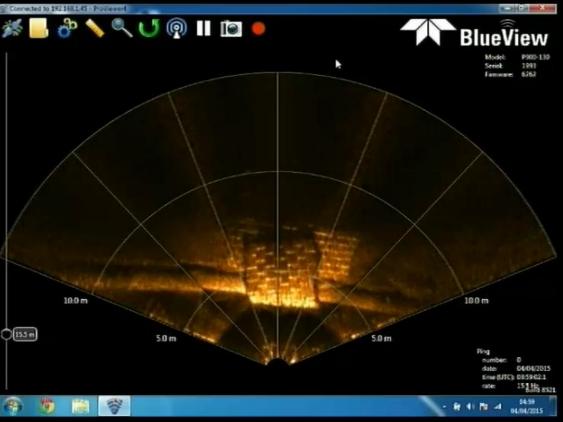
### Cable pulling under the Curonian Lagoon



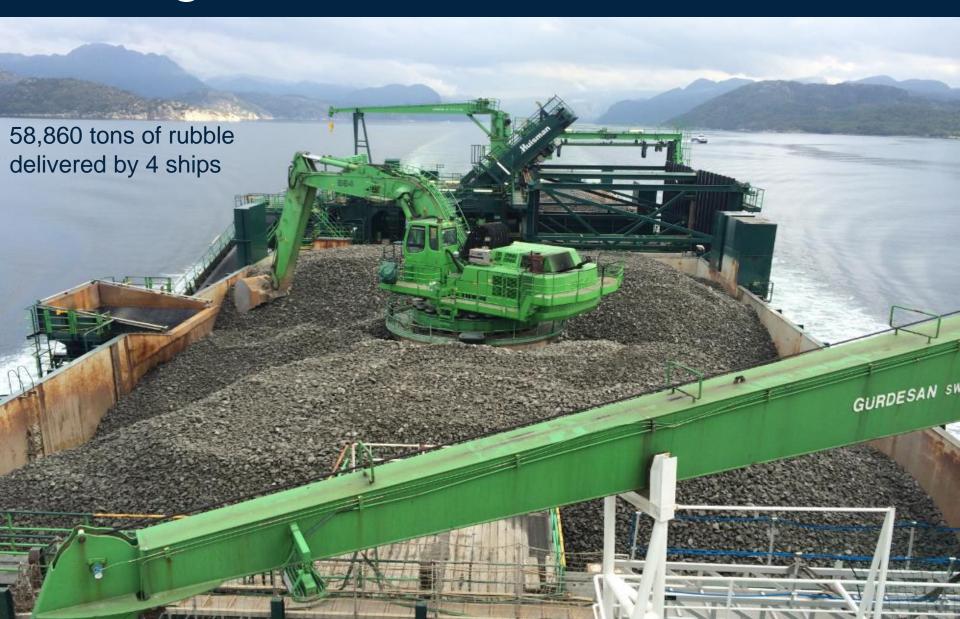
# Crossing with the Nord Stream gas pipeline



Concrete mattresses under and on the cable at a depth of 60 m

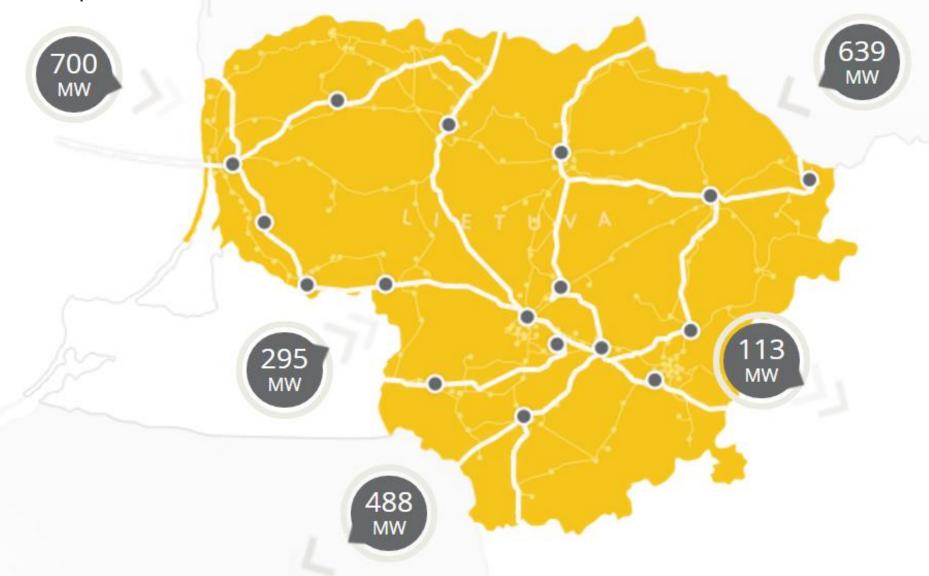


### Filling of the sea cable with rubble





A subsidiary of Litgrid has fully taken over the operation of the connections



# Electricity transmission never stops



HVDC connections disconnected 138 times in 2013

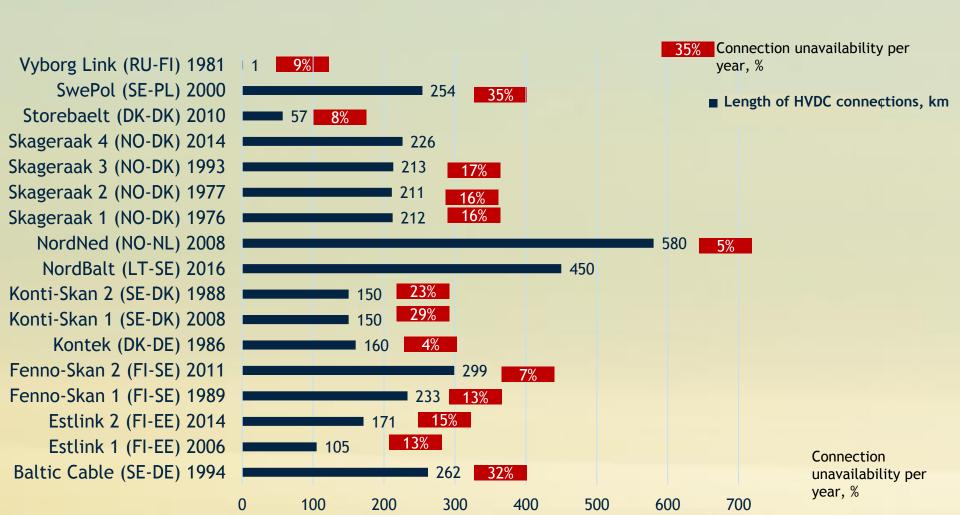


Electricity generators disconnected 67 times in Lithuania in 2014



24/7 electricity transmission to consumers is ensured by the Litgrid System Control Centre

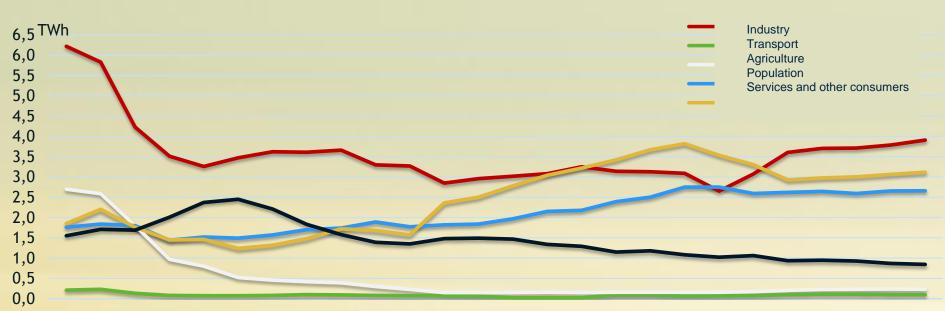
# NordBalt - technologically complex and second-longest connection



# Reliable and effective network

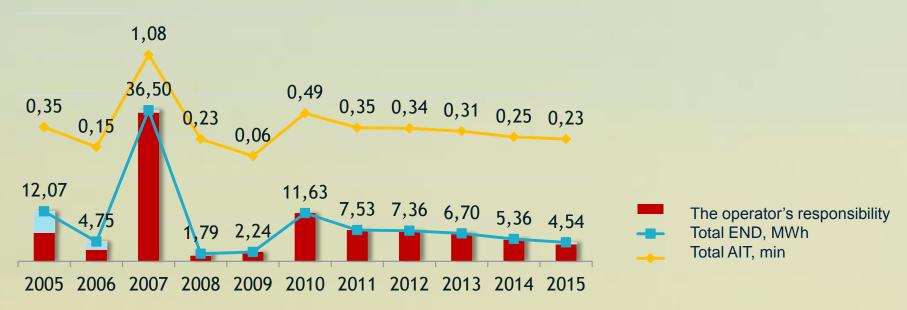
# In 2015, demand for electricity increased 1.4%

- In 2015, 10.86 TWh of electricity was consumed in Lithuania
- Electricity consumption by industrial companies increased more by than 3%, while the needs of the service sector grew 1.8%
- Consumption by the population remained stable
- Almost 16% of the consumed electricity was produced from renewable energy sources.



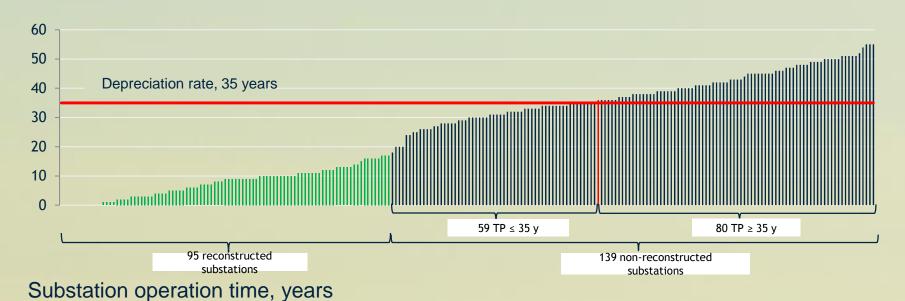
### Best reliability indicators

2015 END = 4.5 MWh, AIT = 0.23 min.



- The majority of disconnections is caused by natural conditions and other external causes
- A quarter of incidents is caused by the careless behaviour of people in overhead line protection areas

# Facilities are reconstructed to maintain the reliability of the network



- In 2015, 15 transformer substations were reconstructed
- Substations, lines, and other facilities age and naturally wear, so investments in the network facilities are continued with rather high intensity

### Concern for smaller ones





- In 2015, a total of 6,000 special wire markers, stork protection devices, additional insulators were installed and 121 nesting-boxes for kestrels were mounted
- Works amounting to EUR 164,155 were performed
- A monitoring plan was drawn up in order to assess the impact of the newly constructed and operating lines - LitPol Link and Klaipėda-Telšiai

# The sense of community and social responsibility

- The website www.elektrosistorija.lt, which is designed to provide, in simple terms, general knowledge on the members, a brief history and present time of the electricity system, currently operating power stations and assurance of electricity demand as well as key development aspects
- For four consecutive years, Litgrid employees plant forest trees on the occasion of the professional holiday of Power Engineer's Day
- During 2015, the company received 25 groups of visitors who were interested in the electricity system and the strategic interconnection projects and learned about the specifics of the work of energy professionals
- Attention to the activities of Litgrid from officials of various countries and experts and high-rank executives of international organisations brings Lithuania into an international focus

### www.elektrosistorija.lt



Lithuanian and Swedish heads of states



Traditional forest planting



Litgrid - the company with the strongest sense of community



25 tour groups



Nasdaq award for the most prominent progress



# Enhancement of the design and contract work quality and occupational safety



To enhance the safety of the work of contractor and customer specialists



To improve the quality of projects being implemented



To manage risks more efficiently

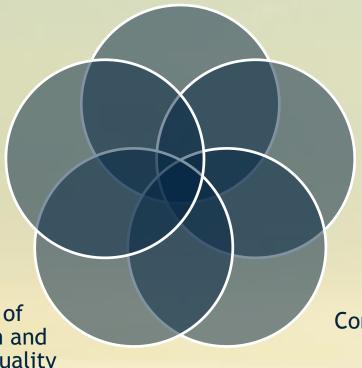


To raise the quality standard for contract work

# The expected result - better quality

High-quality and reliable expert examination of projects

The procurement of works is based on the principle of economic efficiency



Updated standard design and work contracts

The enhancement of technical supervision and occupational safety quality

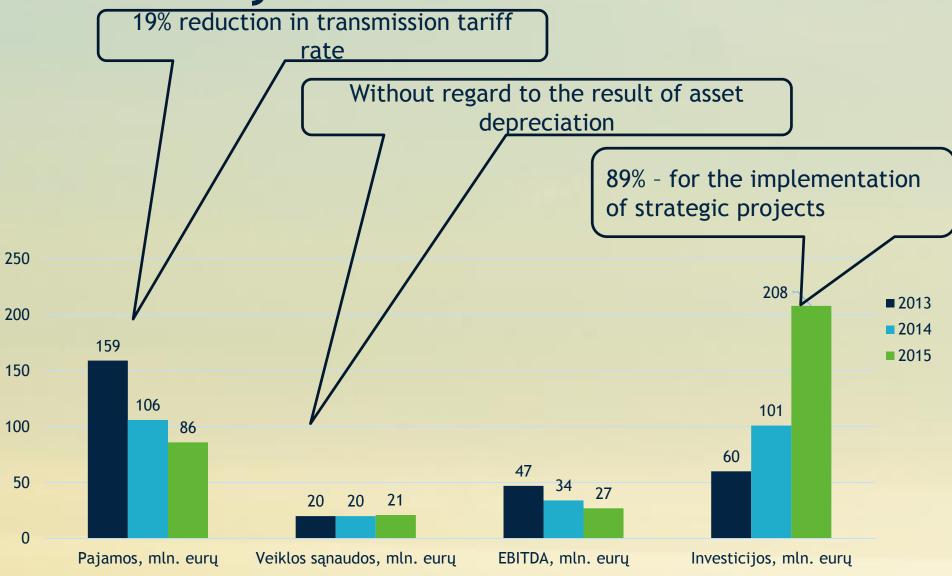
Contract termination option

### Financial results

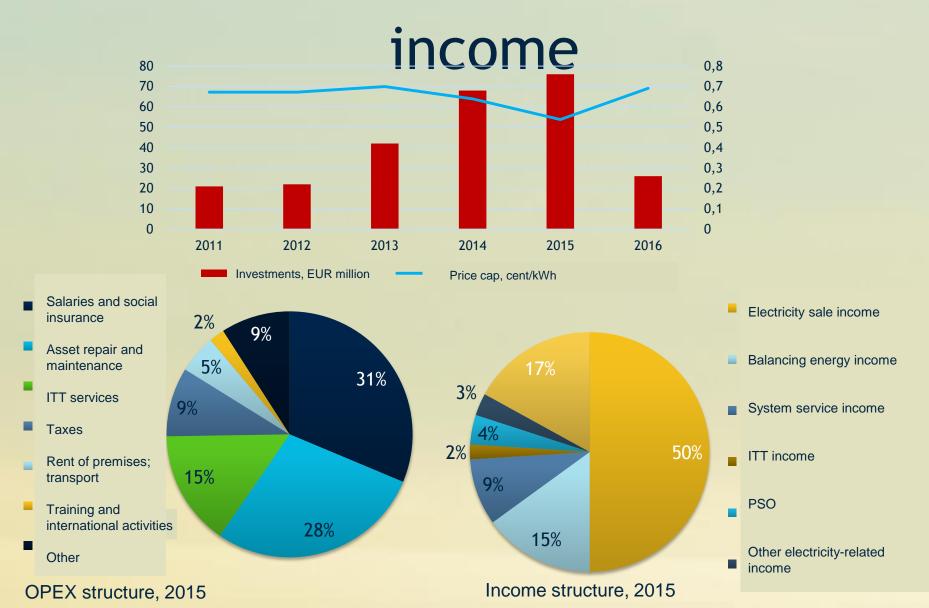
- Litgrid will pay EUR 0.0091 per share in dividends
- Lower costs due to more efficient operating costs and ITT management
- The asset value reduction after the asset evaluation performed in 2014 led to lower depreciation costs
- The subsidiary Tetas operated profitably and paid dividends in 2015



### Key financial indicators

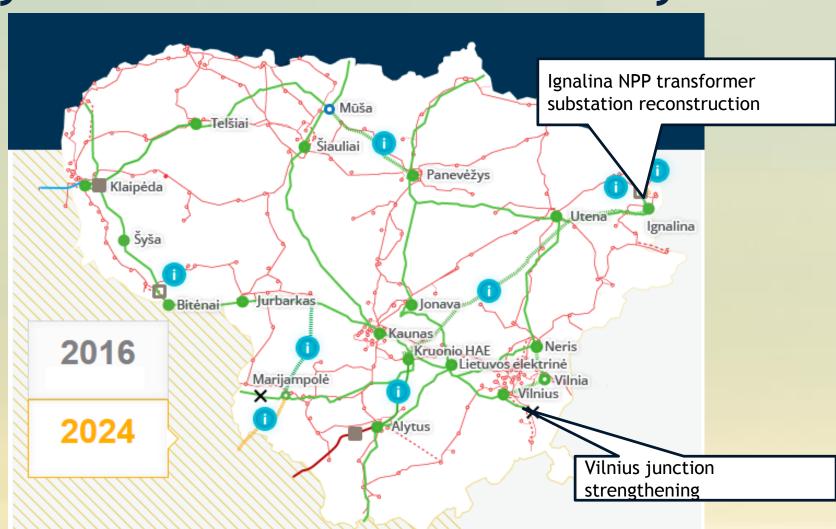


# The reduced transmission tariff rate resulted in lower





# The network projects for synchronisation start this year



# Reasons for Vilnius junction strengthening



### Growing demand

 Today, the demand of Vilnius region accounts for one third of the national capacity demand



### Decreasing production

 Electricity production at Vilnius power plants decreases



### Synchronisation

 The synchronisation of Lithuania's electricity system with CEN and desynchronisation from IPS/UPS

### **Projects**

- The construction of the 330 kV electricity line Vilnius Lithuania Power Plant
- Vilnius transformer substation strengthening
- The construction of the 110 kV electricity line Neris –
- Baltupis and reconstruction of the 110/10 kV Baltupis transformer substation
  The construction of the 330 kV electricity line Vilnius –
- Vilnia Neris (with installation of Vilnia transformer substation 330 kV switchyard)
  The reconstruction of Neris



# The reconstruction of INPP transformer substation



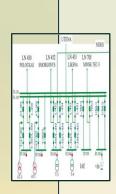
### In operation since 1981

 The condition of the facilities is critical and requires major repair



### For new customer connection

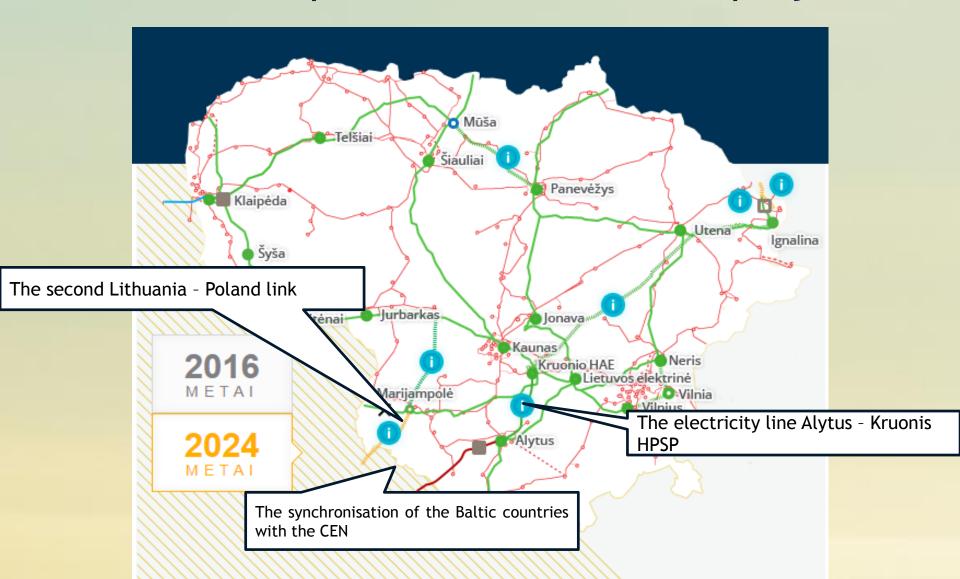
 The nuclear fuel storage will be connected here



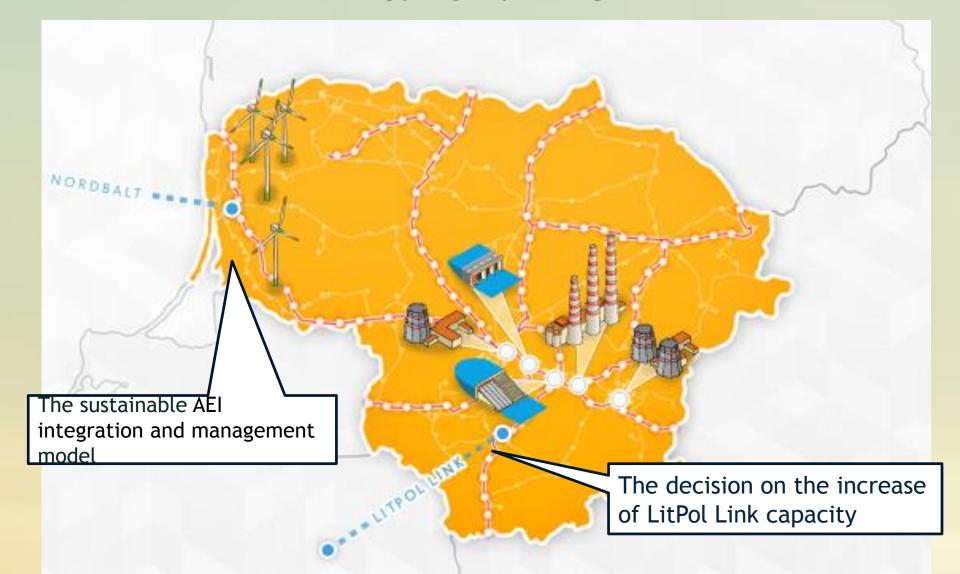
### Strongly integrated with the Belarusian electricity system

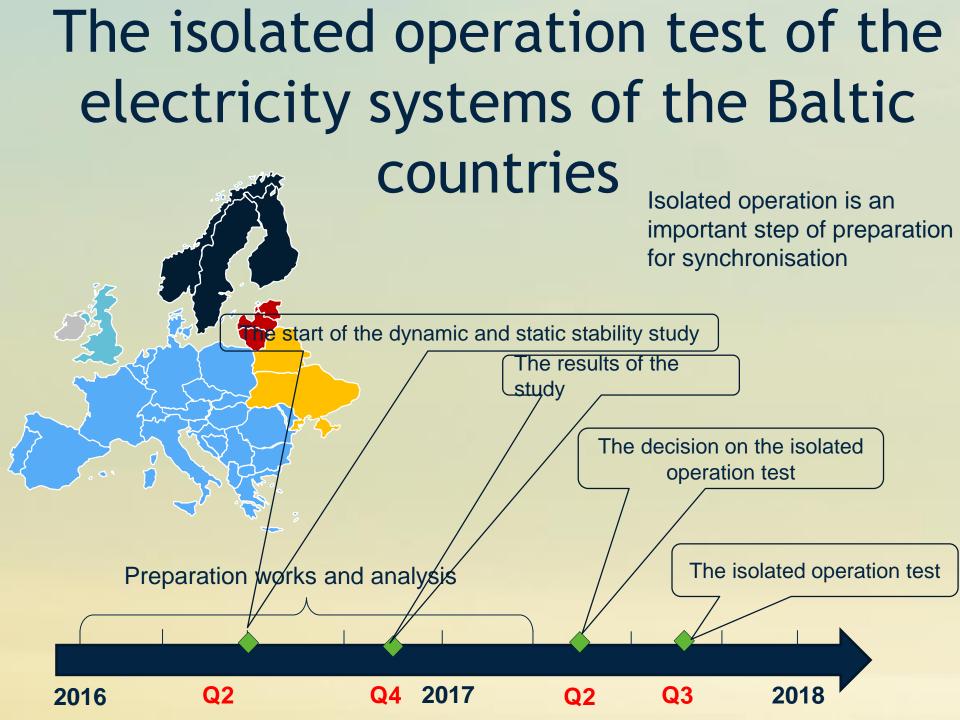
 Non-adapted for the isolated operation of the Baltic countries and asynchronous operation of the Baltic electricity systems with IPS/UPS

# The projects important to Lithuania are in the list of Europe's common interest projects



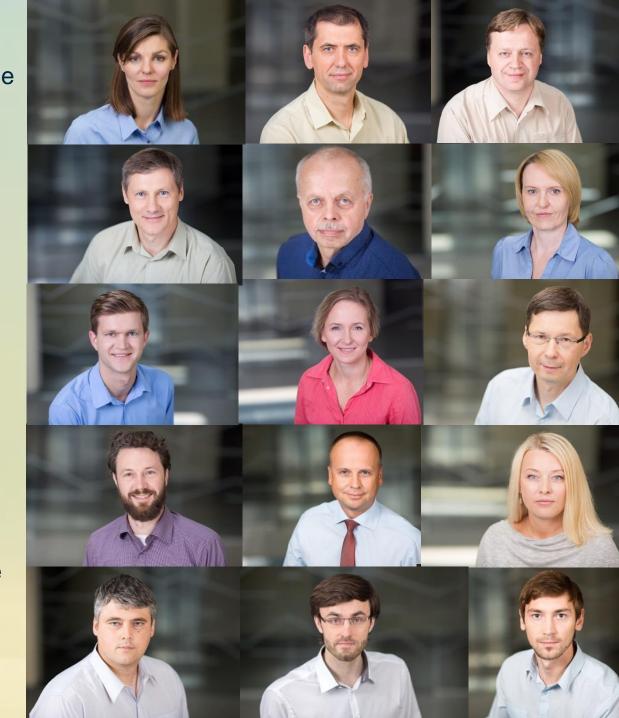
# The optimal use of the network and links



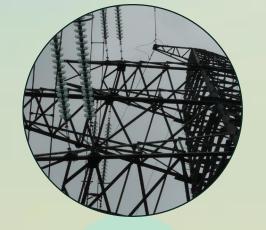




- The average employee age
  42
- The average length of experience in the energy sector – 12 years
- The longest experience –
   51 years
- 74% of the staff men;
  26% women
- 50% of the staff are graduates of KTU
- 8 doctors of science work in Litgrid
- By successfully implementing unique energy projects of European significance, we accumulate exclusive competences







Experience of unique projects

Mentoring programme







Reports at 5 international conferences

235 professionals' team

19 internship places for students

25 tours for interested visitors

43 specialised conferences



# The issues of the electricity market, links and generation development remain relevant



Per year, ~€ 90 lower costs on electricity



The second link with Poland



The development of flexible and effective generation in the region



The second link with Sweden



The regional discussion on energy strategies

# Lithuania - the region's energy competence centre



### Baltic power conference 2016 Regional integration: a hub of opportunities

Since 2016 the electricity systems of all Baltic Sea region have been connected by power interconnectors. On 1 June 2016 those in charge of energy strategies in the countries of the region will gather in Vilnius to discuss the opportunities and synergies brought by the integration.

The conference is arranged by ENTSO-E, European Network of Transmission System Operators for electricity, and the transmission system operators of Estonia, Denmark, Finland, Latvia, Lithuania, Norway, Poland, and Sweden.



The venue of the event is at Merchants Club (Gedimino av. 35, Vilnius), Advance registration is required. There's no participation fee. The registration until 22 May at litgrid@litgrid.eu.

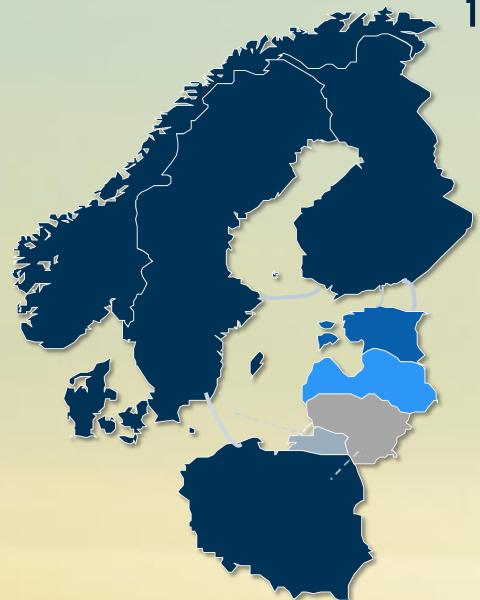








### Until 2016, Lithuania is the EU's energy



island

- 12 electricity links with Latvia, Russia, and Belarus
- Estlink 1 and 2 are the only electricity links with the Northern Europe
- From 2010, the biggest electricity importer among the energy systems in Europe
- No power connection with the Western Europe

# Today, Lithuania is the crossroad of power flows

