



Energy Challenges in the Upper Nitra region

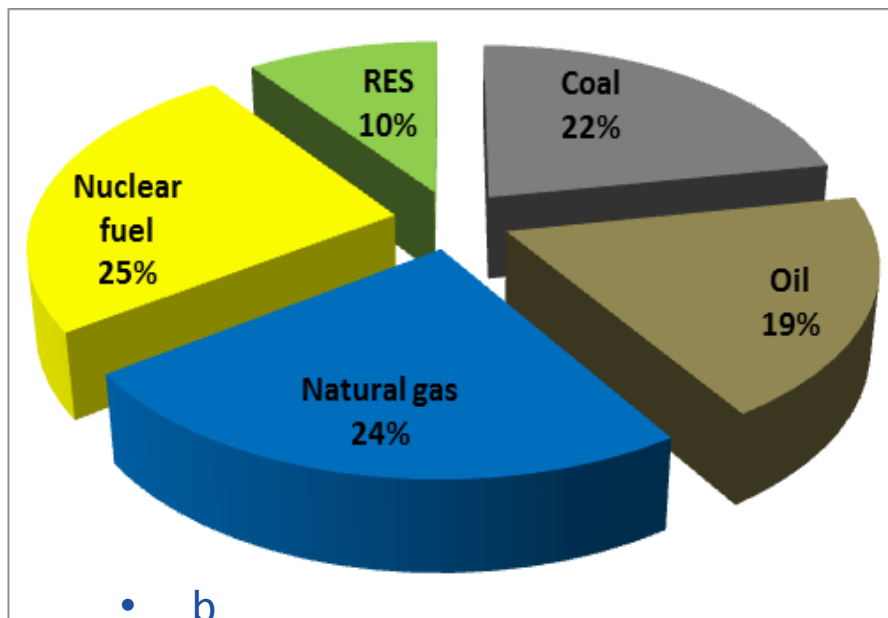
Ministry of Economy
of the Slovak Republic

ENERGY POLICY – SUSTAINABLE DEVELOPMENT

Strategic objective:

competitive, effective, reliable and low-carbon supply of energy for affordable prices
taking into account consumer protection and sustainable growth

Already high share of low-carbon technologies – nuclear and renewables in total electricity consumption in 2014 - 74 % (in total electricity generation - 81 %)



Up to 7% of electricity is produced from domestic coal

Energy mix of Slovakia in gross domestic consumption in 2015

Situation in the Upper Nitra region

Electricity Production dominated by a thermal power plant

ENO A – installed capacity 46 MW

ENO B – installed capacity 2x110 MW

- using brown coal mined in Slovakia

Production and supply of electricity –
1,3 TWh (2016)

Heat supply

heat supply system –

thermal feeder to Prievidza 137 MWt



Transmission system – connection of line 110 kV

Nováky Power Plant remained the only significant source for electricity production in the Bystričany area

Challenges

How to make the electricity sustainable and secure from the long term perspective?

How to address the need to continue central district heating supply for Prievidza, Nováky other towns and the connected industry ?

Where we are in finding the solutions for electricity and heat supply in the region?

- **Improving electricity infrastructure**
- **Diversification of fuel supply in heat production:**
most probable source biomass/ waste
- **Energy efficiency measures**
- **Energy and Innovation**

Possible options being considered:

Diversification of fuel supply

- **Modernization of ENO**
- **Possibility to increase the role of RES/waste**
- **Enabling measures:**
 - on site logistical centrum**
 - increasing yields of biomass**
 - fast growing crops**



Possible options: *Energy and Innovation*

Innovation in drilling technology

Cooperation is currently being discussed



Potential benefits:

Exploring new plasma drilling in mining and energy use

Creating added value through the possibility of a demonstration project

Harvesting the existing skills of employees

Action Plan with measures/projects until the end of June

Environmental aspects – sustainability, air quality

Economic aspects – cost effectiveness, energy prices

Social aspects – job creation, social cohesion

Aspects that will be considered: energy point of view

Contribution to the policy objectives

Opportunities for funding

Maturity and Impact



THANK YOU FOR YOUR
ATTENTION