Legal Aspects of Electricity Produced from RES in SR

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Abstract — The paper deals with the promotion of the use of RES in the area of electricity production in Slovakia. To promote the use of RES for electricity generation a system of subsidies as well as exemptions from the excise duty on electricity produced from RES have been introduced. The most important support mechanism for the use of RES in Slovakia in general, and within the field of electricity production from RES, are the feed-in tariffs. They are very effective and easy to implement, but carry certain risks. However, in 2016 the share of RES in gross final energy consumption dropped compared to previous year so the government prepared some amendments to the law.

Keywords — renewable energy sources (RES), electricity production, support mechanism systems, feed-in tariffs, amendment.

I. INTRODUCTION

The main goal of the paper is, to provide an overview of support mechanism systems of renewable energy sources (RES) in the Slovak legal framework, in particular in the field of electricity production, the objective of which is to increase the share of RES in the production of electricity, heating and cooling and their use in transport, and its impact on the achievement of ongoing objectives and targets set in the Slovak National Plan and Directive 2009/28/EC.

Methodological approach chosen for the paper is studying the laws of the Slovak Republic and legislation of the European Union, technical and scientific literature from domestic and foreign sources. The methods used in the paper were: scientific observation for the purpose of data collection from various available databases and the subsequent comparison, analysis and synthesis of the laws of the Slovak Republic and the European Union, which promote the use of RES in the field of electricity production.

Given current market conditions, RES are nevertheless in many cases still more expensive than conventional sources. The long-term costs of conventional means for energy generation, in particular in terms of the exploitation of resources and climate change, have only just begun to influence prices. Therefore RES have need for legal “guideposts” in order to be able to balance out the economic disadvantage, assert themselves on the market and gradually replace conventional energy sources [17].

Energy markets on their own cannot deliver the desired level of renewables in the EU, i.e. national support schemes may be needed to overcome this market failure and spur increased investment in RES. If these public interventions are not carefully designed, their lack can distort functioning of the energy market and lead to higher costs for European households and businesses.

II. EUROPEAN PERSPECTIVE

The promotion of new and renewable energy forms is a part of the EU policy on energy. The market does not provide the optimal level of renewables if there is the absence of public intervention [5]. Slovakia as a member state of the European Union (EU) is obligated to follow EU’s legislations, policies and regulations.

The EU energy strategy for current period is defined in the 2020 Energy Strategy, under which the main goals are to lower the greenhouse gas emissions by at least 20 %, to raise the use of RES to at least 20 % and to accomplish energy savings of 20 % by the year 2020 [1]. For the next period the aims are defined in the 2030 Energy Strategy and they are a 40% reduction of the greenhouse gas emissions compared to 1990 levels, at least a 27% share of renewable energy consumption and at least 27% energy savings compared with the business-as-usual scenario [2]. Although the EU goals set for the year 2030 have not been up to the date officially changed, in the prepared text of the revision of the Directive 2009/28/EC, which was agreed upon and awaits to be formally adopted by the European Council and Parliament, the set goals are new ones for the year 2030. The provisional agreement sets a 32 % binding EU target for RES by 2030. As for the transport sector, the agreement sets a 14 % RES target by 2030, a 3.5 % share of advanced biofuels and biogas (1 % by 2025), a 7 % cap on the share of first-generation biofuels in road and rail transport, and plans to phase out the use of palm oil (and other food-crop biofuels that negatively impact CO2 emissions) through a certification scheme. Consumer rights to the RES self-consumption are strengthened, the energy efficiency first principle is to become a guiding one, and an indicative annual increase of 1.3 % for RES in heating and cooling is introduced [8].

The basis for the legal framework of the EU is settled in the Article 194, Clause 1 of the Treaty on the European Union and the Treaty on the Functioning of the European Union, in which it is stated, that in the context of the establishment and functioning of the internal market and with regard to the need to preserve and improve the environment, the EU policy on energy shall aim, in the spirit of solidarity between the Member States, to ensure...
the functioning of the energy market, ensure security of energy supply in the EU, promote energy efficiency and energy saving and the development of new and renewable forms of energy and promote the interconnection of energy networks.


The Directive in the Article 3, Clause 1 requires each Member State by 2020 to achieve at least the same share of energy produced from RES as the national target for the share of energy from renewable sources. In the Article 3, Clause 4 of the Directive is stated, that each Member State should ensure that the share of energy from RES in all forms of transport in 2020 is at least 10 % of the final consumption of energy in transport in that Member State. The Directive also defines the system of support while purchase prices are among the key motivational tools for the support of RES.

As support mechanism systems, or as stated in the Directive, under the support scheme is considered any instrument, scheme or mechanism applied by a Member State or a group of Member States, that promotes the use of RES by reducing the cost of that energy, increasing the price at which it can be sold, or increasing, by means of a renewable energy obligation or otherwise, the volume of such energy purchased. This includes, but is not restricted to, investment aid, tax exemptions or reductions, tax refunds, renewable energy obligation support schemes including those using green certificates, and direct price support schemes including the feed-in tariffs and premium payments.

The EU also adopted guidance for the EU countries when designing and reforming renewable energy support schemes. Firstly, this guidance suggests that financial support for renewables should be limited to what is necessary and aimed at making renewable energy competitive in the market. Secondly, the support schemes should be flexible and respond to the falling production costs. As technologies mature, schemes should be gradually removed. For instance, the feed-in-tariffs should be replaced by the feed in premiums and other support instruments that incentivize producers to respond to market developments. Then, unannounced or retroactive changes to the support schemes should be avoided as they undermine investor confidence and prevent future investments. Finally, the EU countries should take advantage of the renewable energy potential in other countries via cooperation mechanisms. This would keep costs low for consumers and boost investor confidence [15].

The main legal source promoting the use of RES in Slovakia is the Act No. 309/2009 Coll. on the promotion of renewable energy sources and high-efficiency cogeneration (RES Act). Currently the RES Act is being reviewed as well as the Directive. On August 22, 2018 the Slovak Government passed its proposed amendment to the RES Act and is waiting to be passed in the Slovak Parliament.

The RES Act defines the conditions for supporting RES and high efficiency combined heat and power (CHP) production (mostly electricity and bio methane production), rights and duties of electricity producers, distribution network operators and producers of bio methane, the rules for issuing certificates of origin for electricity produced from RES and high efficiency CHP and bio methane, pricing rules and obligations for state administration bodies. The RES Act targets all scale of RES electricity and CHP generation (up to 200 MW).

Under the RES Act, RES and high efficiency CHP electricity producers would be entitled to preferential transmission, distribution and delivery of their electricity. The system operators would also be required to buy RES and highly efficient CHP electricity at a preferential fixed purchase price for investment period of 15 years.

The price would be set by the Regulatory Office for the Network Industries (RONI). The RES Act defines the input data (general and technical parameters) the application must include; the guarantee of origin is issued by the RONI after the verification of the data and relevant calculations evaluation. Among other provisions, the RES Act lays down a support system for electricity production from RES and high-efficiency CHP, as well as the production of bio methane (a biogas), and outlines electricity producer rights and obligations, as well as those of other market participants.

For producers, false information regarding the origin of electricity from RES or failure to comply with other provisions can entail fines ranging from 500.00 EUR up to 100,000.00 EUR. A distribution system operator (DSO) that doesn’t allow access, connection or transmission of green electricity can face fines from 10,000.00 EUR up to 200,000.00 EUR. A DSO can also face fines of 500.00 EUR to 100,000.00 EUR for failure to comply with the RES Act. [3] especially confusing. Write “Magnetization (kA/m)” or “Magnetization (10^3 A/m).” Figure labels should be legible, about 10-point type.

A. Support Mechanism for the Use of RES in Slovakia within the Field of Electricity Production

Support mechanism systems promoting the use of RES for electricity production in Slovakia are the feed-in tariff, subsidies and tax regulation mechanisms (exemption from excise tax).

Provisions for the electricity production under RES Act are:

• Preferential connection and access to the grid, as well as preferential transmission, distribution and supply;
• Mandatory off-take by regional DSO for the price of electricity losses (stable prices for 15 years);
• A bonus price, stable for 15 years;
• Responsibility for deviations assumed by regional DSO;
• Certificates of origin [3].
The subsidies for the investment projects regarding the production of electricity from RES are financed from two basic sources, the Operational Program Quality of Environment (OPQE) and Environmental Fund (EF).

The OPQE allocates investment grants from the European Regional Development Fund (ERDF) for the natural and legal entities, associations or non-profit organizations. The renewable energy projects are eligible under the Priority Axis 4 “Energy-efficient low-carbon economy in all sectors”, namely the Investment Priority 4.1 “Promoting the production and distribution of energy derived from renewable sources”.

The specific Target 4.1.1 “Increasing the share of RES in gross final energy consumption of the SR” is aimed at supporting the generation of heat and electricity from RES, thereby contributing to the achievement of the planned share of RES in the gross final energy consumption by 2020. Eligible activities under this target include the replacement of inefficient solid fuel fired boilers with heat generating plants fired by biomass as well as the construction of heat pumps, biogas, and solar thermal or geothermal plants.

The bodies eligible for subsidies are the natural or legal entities authorized to conduct business, associations, local government bodies or non-profit organizations. Projects must be implemented outside the Bratislava region. However, households from the Bratislava region could apply for installations of ‘small sources’ with total installed capacity up to 10 kW [14].

Under the Act No. 587/2004 Coll. on the Environmental Fund, the EF may be provided and used for installation of new equipment that uses as a source RES, geothermal energy or secondary energy sources (under secondary energy sources is understood an energy source energy potential of which comes from the gas by-product generated in the production processes and technological processes); for reconstruction or modernization of existing facilities that use as an energy source RES or secondary energy sources; for exchange or reconstruction of existing facilities, which by the preparation of heat, hot water and by cooling are using fossil fuels; for facilities using biomass, secondary energy source or geothermal energy; for heat pumps or for solar collectors, including the exchange of the whole system and its reconstruction; for installation of new facilities, which by the preparation of heat, hot water and by cooling will use biomass, secondary energy source or geothermal energy, installation of heat pumps or installation of solar collectors, including installation of the entire system.

The tax regulation mechanisms, which promote the use of RES in electricity production, are stated in the Act No. 609/2007 Coll. on excise duty on electricity, coal and natural gas. Under this Act exemption from excise duty applies to electricity produced from a renewable source, if such production is demonstrated using a guarantee of origin of electricity produced from the renewable energy sources and if such electricity was generated in a solar facility, or a wind power plant, or a facility designed for the use of geothermal energy, or a hydroelectric power plant or a facility designed for the use of biomass or a product produced from biomass.

The Slovakia electricity production from RES is supported mainly through a fixed feed-in tariff. The tariff consists of two parts, the price of electricity for losses (market price) and a surcharge. The market price is paid for all electricity supplied from the RES facilities up to support limit facilities of an electricity producer with the total installed capacity up to 125 MW, or with the total installed capacity up to 200 MW, if electricity is produced from high efficiency cogeneration and the energy ratio of the renewable energy sources in the fuel is higher than 20 %.

The regional DSO is obliged to enter into agreements on the electricity supply to cover losses in the distribution grid with the electricity producers. The DSO is obliged to take all electricity that was generated by the electricity producer entitled for support.

The RES plant operator must have a license to produce electricity issued by RONI, a pricing decision on the amount of the feed-in price, and separate metering of the RES-produced electricity via a certified meter. Based on the amount of electricity measured, the plant operator submits information on the electricity production to the regional distribution system operator and invoices that amount [6].

Prices of electricity generated from RES (determined like fix prices in EUR/MWh) in accordance with the Decree No. 18/2017 of RONI for all energy production facilities have been put into operation from January 1, 2017:

a) electricity produced from hydro energy in a facility with a total installed capacity
1. up to 100 kW 111.25 EUR/MWh
2. from 100 kW to 200 kW 109.15 EUR/MWh
3. from 200 kW to 500 kW 106.80 EUR/MWh
4. from 500 kW to 1 MW 105.11 EUR/MWh
5. from 1 MW to 5 MW 97.95 EUR/MWh

b) electricity produced from solar energy in a facility with a total installed capacity up to 30 kW, placed on the roof or external cladding of one building, connected with soil by its footing and registered in a respective real estate register (cadastre)
84.98 EUR/MWh
c) electricity produced from wind energy 44.18 EUR/MWh
d) electricity produced from geothermal energy 108.71 EUR/MWh
e) electricity produced from combustion or co-firing using combined energy production
1. purposely grown bio-mass excl. cereal straw 70.31 EUR/MWh
2. other waste biomass excl. cereal straw 74.30 EUR/MWh
3. cereal straw 92.17 EUR/MWh
4. bio liquids 80.86 EUR/MWh
f) electricity produced from co-firing of biologically decomposable fragments of municipal waste with fossil fuels 70.83 EUR/MWh
g) electricity produced from combustion

1. gas from sewage tank or waste dump 58.66 EUR/MWh
2. biogas obtained by means of anaerobic fermentation technology with capacity up to 1 MW 95.95 EUR/MWh
3. biogas obtained by anaerobic fermentation technology with capacity up to 250 kW 102.00 EUR/MWh
4. biogas obtained by anaerobic fermentation technology with capacity from 250 kW to 500 kW 95.89 EUR/MWh
5. biogas obtained by anaerobic fermentation technology with capacity from 500 kW to 750 kW 91.61 EUR/MWh
6. biogas obtained by anaerobic fermentation technology with capacity over 750 kW 90.02 EUR/MWh
7. gas obtained by thermo-chemical gasifying in generator 84.72 EUR/MWh
8. fermented mixture obtained by anaerobic fermentation technology produced from biologically decomposable fragments of municipal waste 78.42 EUR/MWh

 Prices of the electricity generated from a highly effective combined production (determined like fix prices in EUR/MWh) in accordance with the Decree No. 18/2017 of RONI for all energy production facilities have been put into operation from January 1, 2017:

a) in combustion turbine with combined cycle 74.10 EUR/MWh
b) in combustion turbine with heat regeneration 74.05 EUR/MWh
c) in combustion engine with fuel

1. natural gas 75.04 EUR/MWh
2. fuel oil 73.67 EUR/MWh
3. mixture of air and methane 68.90 EUR/MWh
4. from catalytically processed waste 92.63 EUR/MWh
5. from thermic fissure of waste and its products 85.11 EUR/MWh
d) in back-pressure turbine or in condensation turbine with heat take-off with fuel

1. natural gas 67.90 EUR/MWh
2. fuel oil 67.10 EUR/MWh
3. brown coal 68.29 EUR/MWh
4. black coal with a total installed capacity up to 50 MW including 62.81 EUR/MWh
5. black coal with a total installed capacity above 50 MW 59.26 EUR/MWh
6. municipal waste 62.51 EUR/MWh
7. gas obtained by thermo-chemical gasifying of waste in generator or thermic fissure 73.75 EUR/MWh
e) from combustion of usable gases arising in steel production process 80.02 EUR/MWh
f) in Rankin’s organic cycle 98.31 EUR/MWh

B. Evaluation of Support Mechanism Systems in Slovakia

When comparing the current support mechanism system implemented in Slovakia to current support mechanism systems, which are provided by the Directive, Slovakia uses only systems that are the most elementary and easy to implement. When considering the guidance for the EU countries for designing and reforming the renewable energy support schemes, Slovakia meets the proposal of avoiding the unannounced or retroactive changes and in some way also the proposal of flexibility and respond to falling production costs. On the other hand, financial support for RES is not limited to what is necessary and Slovakia is not involved in any cooperation mechanisms with other countries.

Since in Slovakia as well as in the Directive the system of the feed-in tariffs is considered to be the key tool for promoting RES and because the support mechanism systems of RES in the field of electricity production are the main topic of the paper, further evaluation will concern only this support mechanism system. Support for the electricity from RES through the feed-in tariffs is the most widespread support within the EU. Historical tracking of the support of RES in the Member States shows that the biggest penetration of RES was recorded in using the system of the feed-in tariffs and that in the system lower costs for consumers have been introduced.

Besides obvious benefits for the investors in the form of guaranteed stability of the purchase prices, this system brings several risks. In particular, an increase of the electricity prices, the impact on the stability and security of the electricity system and the inadequate support of reconstructed facilities has been recorded.

With regard to the risk of increased prices, this was gradually eliminated, because the guaranteed purchase prices for green electricity paid by all consumers in their electricity bills are gradually declining. For example, investors who built a solar power station in Slovakia at the turn of 2009–2010, are over fifteen years entitled to the purchase price amounting up to 430.00 EUR per megawatt hour. If the solar plant was built this year, they would be entitled to the purchase price of less than 85.00 EUR per megawatt hour [4]. However, even though there still are some risks that can increase the price, such as the tariff for system operation, which is a part of the final price of electricity and is also included in the payment for the support. The government, however, has a plan to minimize these effects, particularly with respect to the final consumers [16]. As to stability and security of the
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IV. CONCLUSION

Slovakia is currently meeting the objectives and targets, stated in its National plan and resulting from the Directive, just by applying the basic support mechanism systems of RES, as the feed-in tariffs, tax support mechanisms, subsidies and quotas. The result of these low efficient measures is that Slovakia is below the EU average of the share of energy from the renewable sources and finds itself at the bottom of the list of EU countries as to the share of energy from the renewable sources.

It must also be mentioned that Slovakia doesn’t follow all the recommendations that are proposed in the guidance for the EU countries for designing and reforming the renewable energy support schemes. So, in the future, Slovakia should introduce into its legal framework new support mechanism systems of RES or amend the current ones in order to be in line with the guidelines for the EU countries when designing and reforming the renewable energy support schemes, particularly in the field of electricity production. Even though the government has approved the amendment to the RES Act and it has been moved forward, e. g. with the introduction of the auction system and the legal term of “local power plant”, there are still many factors that have to be solved. The amendment lacks mainly concrete criteria for the selection of the auction winner for whom the support will be granted and concrete criteria for the selection of the energy-intensive businesses for which the compensation will be granted. The question whether the prepared amendment to the RES Act is or is not in line the prepared review of the Directive cannot be jet answered, because neither of them has been officially adopted. In other words, the proposed texts of both novelties can still be changed, so the final versions are unknown at the moment (September 2018). However, it must be stressed once more, that the national legislation must be in line with the EU directives, and that is why because the review of the Directive is nearing its adoption by the European Council and Parliament, it would be advisable to postpone the adoption of the amendment to the RES Act until the review of the Directive is adopted.

ACKNOWLEDGMENT

This work was supported by the AgroBioTech Research Centre built in accordance with the project Building „AgroBioTech” Research Centre ITMS 26220220180.

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