

***Distribution Network Losses and their management – Case Study session***

**Case study by Energy Agency of the Republic of Serbia**

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# Basic information about DSO(s) and network losses

*\* What is the total number of Distribution System Operators (DSOs) in country?*

*There are 31 DSOs.*

*\* The structure – each DSO's natural distributed gas quantity and number of consumers?*

*4 DSOs with less than 1000 consumers, 17 DSOs with 1.000-5.000 consumers, 7 DSOs with 5.000-15.000 consumers, 3 DSOs with more than 15.000 consumers (one of them has 120.159 consumers)*

*2 DSOs with less than 1.000.000 m<sup>3</sup> delivered, 11 DSOs with 1.000.000-5.000.000 m<sup>3</sup> delivered, 8 DSOs with 5.000.000-20.000.000 m<sup>3</sup> delivered, 7 DSOs with 20.000.000-50.000.000 m<sup>3</sup> delivered, 2 DSOs with 50.000.000-100.000.000 m<sup>3</sup> delivered, 1 DSO over 1 BCM*

*\* Share of smart meters in system?*

*There are no smart meters installed.*

# Basic information about DSO(s) and network losses

*\* At what level and through what legislative documents is the component of losses in the distribution network covered in your country (government decree, technical normative acts, regulator's decision or other similar acts)?*

*Principles for losses determination are given in Methodology for use of system charge, which is the act of the regulator.*

*\* What are the principles that define the methodologies which are used to determine the gas losses in distribution networks (national normative acts, methodologies, pipeline construction technical norms, other technical studies or analytical studies)?*

*Methodology for use of system charge defines determination of losses.*

*\* What is the volume/proportion of losses that are taken into account for tariff purposes. What are the various countries approach to this aspect of network losses recovery through tariffs?*

*Up to 2% of distribution losses is the quantity acceptable to be recovered through tariffs.*

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*Natural gas losses percentage last three years (loses/distributed amount)?*

- 1) Technical losses*
- 2) Comercial losses*

*There is no diferentiation between comercial and technical losses, so the data reported refer to total distribution losses. Losses range from -3,5% to 8,2%.*

*What actions taken to reduce losses in system?*

- 1) Investments made*
- 2) Improved proceses*

*Investments are made regarding substitution of old pipelines and metering devices with new.*

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**THANK YOU FOR YOUR  
ATTENTION!**