



# TF Managing Energy Transition

Implementation of the CEP. DSOs' traditional roles

# Abstract

This research addresses the level of transposition of the so-called traditional roles\* of DSOs for electricity to the national legal systems of the Energy Community Contracting Parties (later referred to as CPs) in accordance with Directive 2009/72/EC, Directive 2019/944/EC and Regulation 2019/943.

The research consists of two parts:

1. This document briefly outlines the transposition status of DSOs' traditional roles in 9 CPs, who has been participating in the work of the TF Managing Energy Transition;
2. The annex contains the table with the provisions of national legal instruments describing DSOs' traditional roles of TF Managing Energy Transition Members and respective provisions of Directive 2009/72/EC, Directive 2019/944/EC and Regulation 2019/943.

The focus of the research is to create a comprehensive and a user-friendly legal database for the researchers, NRAs, representatives of the energy sector and other stakeholders to understand the current status of the CEP implementation in CPs and observe the national regulatory aspects of DSOs' traditional roles.

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\*The list of DSOs' "traditional roles" has been elaborated by the Members of the ECDSO-E Energy Transition Task Force and contains the 7 traditional roles: grid access/connection, planning, smart metering, data management, management of grid losses, TSO-DSO cooperation, tariffs/network charges.

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## Answers

| Answers of TF Members |                        |                            |
|-----------------------|------------------------|----------------------------|
| ✓                     | North Macedonia        | EVN Macedonia              |
| ✓                     | Moldova                | Premiere Energy            |
| ✓                     | Bosnia and Hercegovina | JP EP HZ HB d.d            |
| ✓                     | Kosovo                 | KEDS                       |
| ✓                     | Serbia                 | Elektrodistribucija Serbia |
| ✓                     | Montenegro             | CEDIS                      |
| ✓                     | Georgia                | Energo-Pro Georgia         |
| ✓                     | Ukraine                | DTEK Grids                 |
| ✓                     | Albania                | OSSH                       |



# CEP implementation status

| Ukraine             |                          |          |                |                 |                           |                     |                           |
|---------------------|--------------------------|----------|----------------|-----------------|---------------------------|---------------------|---------------------------|
| Roles               | Grid access / connection | Planning | Smart metering | Data management | Management of grid losses | TSO-DSO Cooperation | Tariffs / network charges |
| Directive 2009/72   | Green                    | Green    | Red            | Green           | Green                     | Grey                | Green                     |
| Directive 2019/944  | Green                    | Red      | Red            | Yellow          | Yellow                    | Yellow              | Red                       |
| Regulation 2019/943 | Green                    | Red      | Grey           | Red             | Grey                      | Red                 | Red                       |

**Grid access / connection** The provisions of the Regulation correspond to the provisions of Ukrainian legislation. The Regulation introduces principles of non-discriminatory access in the context of storage emergence, demand response and the EV sector.

**Planning** Ukrainian legislation complies with the provisions of Directive 2009/72. In terms of the introduction of flexibility services and emergence of new market players, Directive 2019/94 introduces a fundamentally new approach of a grid planning process for DSOs and includes consulting procedures with consumers and an obligation to provide the results of consultations to the regulator.

**Smart metering** Ukrainian legislation provides for rules for cost-benefit analyses for smart-meter roll-out and a better information exchange but does not presuppose residential customers involvement to the electricity market.

**Data management** Directive 2019/944 contains general principles on non-discriminatory access to data, which are partially regulated by Ukrainian legislation.

**Management of grid losses** Ukrainian legislation fully complies with the provisions of Directive 2009/72 in terms of management of grid losses

**TSO-DSO Cooperation** TSO-DSO cooperation aspects are regulated by Ukrainian legislation, however, the Directive 2019/944 and the Regulation 2019/943 consider the emergence of "system flexibility", namely (including in terms of long-term planning): management of storage systems, distributed generation, demand-response which have been transposed to primary legislation so far.

**Tariffs / network charges** The Directive 2019/944 and the Regulation 2019/943 radically change the approach to the role of DSO in tariff setting, taking into account the emergence of new concepts of energy communities and active consumers

- fully implemented and complies with the EU legislation
  - partially implemented
  - not implemented

- not regulated by the legal act



# CEP implementation status

| N. Macedonia        |                          |          |                |                 |                           |                     |                           |
|---------------------|--------------------------|----------|----------------|-----------------|---------------------------|---------------------|---------------------------|
| Roles               | Grid access / connection | Planning | Smart metering | Data management | Management of grid losses | TSO-DSO Cooperation | Tariffs / network charges |
| Directive 2009/72   | Green                    | Green    | Red            | Green           | Green                     | Grey                |                           |
| Directive 2019/944  | Green                    | Green    | Red            | Green           | Green                     | Green               |                           |
| Regulation 2019/943 | Red                      |          | Grey           | Green           | Grey                      | Red                 |                           |

### Grid access / connection

In the context of network access and connection, Macedonian legislation complies with the provisions of Directive 2009/72 and Directive 2019/944. The provisions of the Regulation need to be transposed into Macedonian legislation regarding non-discriminatory access in the context of energy storage, demand response and the EV sector.

### Planning

The provisions of Directive 2019/944 need to be transposed in the sphere of planning of EV facilities, energy storage, etc.

### Smart metering

Directive 2019/944 needs to be transposed into Macedonian legislation

### Data management

In the context data management, Macedonian legislation complies with the provisions of Directive 2009/72, Directive 2019/944 and Regulation 2019/943

### Management of grid losses

In the context of management of grid losses, Macedonian legislation complies with the provisions of Directive 2009/72 and Directive 2019/944.

### TSO-DSO Cooperation

In the context of TSO/DSO cooperation Macedonian legislation contain provision that corresponds the provisions of Directive 2009/72 and Directive 2019/944. The provisions of the Regulation 2019/943 need to be approximated.

### Tariffs / network charges

- fully implemented and complies with the EU legislation
- partially implemented
- not implemented
- not regulated by the legal act



# CEP implementation status

| Kosovo              |                          |          |                |                 |                           |                     |                           |
|---------------------|--------------------------|----------|----------------|-----------------|---------------------------|---------------------|---------------------------|
| Roles               | Grid access / connection | Planning | Smart metering | Data management | Management of grid losses | TSO-DSO Cooperation | Tariffs / network charges |
| Directive 2009/72   | Green                    | Green    | Green          | Green           | Green                     | Grey                | Yellow                    |
| Directive 2019/944  | Green                    | Yellow   | Yellow         | Green           | Green                     | Yellow              | Yellow                    |
| Regulation 2019/943 | Yellow                   | Red      | Grey           | Red             | Grey                      | Yellow              | Yellow                    |

## Grid access / connection

In the context of network access and connection, Kosovo legislation complies with the provisions of Directive 2009/72 and Directive 2019/944.

The provisions of the Regulation partially correspond to the provisions of Kosovo legislation, since the Regulation introduces principles of the efficient dispatch of generation assets, energy storage, demand response, entry and exit of energy storage.

## Planning

In the context of planning, Kosovo legislation complies with the provisions of Directive 2009/72 and partially with the Directive 2019/944 since the Directive 2019/944 emphasizes the main distribution infrastructure which is required to include recharging points for electric vehicles and energy storage facilities. The Directive 2019/944 required DSOs to publish the results of the consultation processes along with network development plan. The provisions of the Regulation on redispatching have not been implemented into legislation so far.

## Smart metering

In the context of smart metering, Kosovo legislation complies with the provisions of Directive 2009/72 and partially with Directive 2019/944 since the Directive 2019/944 contains provisions related to paying bills only on quarterly basis or the same amount every month.

## Data management

In the context of data management, Kosovo legislation complies with the provisions of Directive 2009/72 and Directive 2019/944. The provisions of the Regulation related to data management are not implemented in Kosovo legislation.

## Management of grid losses

In the context of management of losses, Kosovo legislation complies with the provisions of Directive 2009/72 and Directive 2019/944.

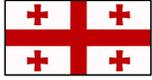
## TSO-DSO Cooperation

In the context of DSO/TSO cooperation, Kosovo legislation complies partially with the provisions of Directive 2019/944, since the Directive 2019/944 requires participation of all qualified participants engaged in demand response, operators of energy storage facilities and market participants engaged in aggregation. The provisions of the Regulation are partially implemented since the Regulation requires cooperation of DSO entity with ENTSO and with European entity for distribution system operators.

## Tariffs / network charges

Kosovo legislation partially complies with the provisions of Directive 2009/72 since the Directive 2009/72 requires from the DSO to adopt rules related to balancing distribution system. Provisions of the Directive 2019/944 partially correspond to the provisions of Kosovo legislation since the Directive 2019/944 introduces the concept of the active customers and citizen energy communities.

- fully implemented and complies with the EU legislation
  - partially implemented
  - not implemented  
 - not regulated by the legal act



# CEP implementation status

| Georgia             |                          |          |                |                 |                           |                     |                           |
|---------------------|--------------------------|----------|----------------|-----------------|---------------------------|---------------------|---------------------------|
| Roles               | Grid access / connection | Planning | Smart metering | Data management | Management of grid losses | TSO-DSO Cooperation | Tariffs / network charges |
| Directive 2009/72   | Green                    | Green    | Green          | Green           | Green                     | Grey                | Green                     |
| Directive 2019/944  | Yellow                   | Yellow   | Yellow         | Green           | Green                     | Green               | Yellow                    |
| Regulation 2019/943 | Red                      | Red      | Grey           | Red             | Grey                      | Green               | Red                       |

## Grid access / connection

In the context of network access and connection, Georgian legislation complies with the provisions of Directive 2009/72 and Directive 2019/944.

## Planning

In the context of Planning, Georgian legislation complies with the provisions of Directive 2009/72. Directive 2019/944 is partially implemented, as NRA encourages the use of renewable energy sources, by setting different conditions for the connection of the points/stations for EV charging to the distribution network. The provisions of the Regulation on redispatching have not been implemented into legislation so far.

## Smart metering

In the context of smart metering, Georgian legislation complies with the provisions of Directive 2009/72. Most of the requirements of Directive 2019/944 are transposed to the LAW OF GEORGIA ON ENERGY EFFICIENCY, namely, provisions on mandatory smart metering and informing energy consumers and raising awareness.

## Data management

In the context of data management and mainly after unbundling of distribution and supply activities, Georgian legislation complies with the provisions of Directive 2009/72 and Directive 2019/944. The provisions of the Regulation related to data management are not implemented in Georgian legislation.

## Management of grid losses

In the context of management of losses and mainly after unbundling of distribution and supply activities, Georgian legislation complies with the provisions of Directive 2009/72, Directive 2019/944 and Regulation 2019/943. A distribution system operator shall purchase the energy required to perform its functions in accordance with transparent, non-discriminatory and market procedures.

## TSO-DSO Cooperation

In Georgia, the secondary legislation "Distribution Network Rules" regulates the relationship between the DSO and TSO in detail and are in compliance with above provisions.

## Tariffs / network charges

Georgia has fully implemented the provisions of the Directive 2009/72 in the context of tariff setting, network charges and relevant methodologies. The Directive 2019/944 is partially implemented, mainly transposing provision for active customers (net metering). Regulation 2019/943 is not transposed yet.

- fully implemented and complies with the EU legislation
  - partially implemented
  - not implemented  
 - not regulated by the legal act



# CEP implementation status

| Bosnia and Herzegovina |                          |          |                |                 |                           |                     |                           |
|------------------------|--------------------------|----------|----------------|-----------------|---------------------------|---------------------|---------------------------|
| Roles                  | Grid access / connection | Planning | Smart metering | Data management | Management of grid losses | TSO-DSO Cooperation | Tariffs / network charges |
| Directive 2009/72      | Green                    | Green    | Green          | Green           | Green                     | Grey                | Green                     |
| Directive 2019/944     | Red                      | Red      | Red            | Red             | Red                       | Red                 | Red                       |
| Regulation 2019/943    | Red                      | Red      | Grey           | Red             | Grey                      | Red                 | Red                       |

**Grid access / connection**

In the context of grid access and connection, legislation of Federation of Bosnia and Herzegovina complies with the provisions of Directive 2009/72.  
The draft of the new Electricity Law is in the adoption procedure and meets the requirements of the Directive 2019/944 and Regulations 2019/943.

**Planning**

In the context of planning of DSO Grid, legislation of Federation of Bosnia and Herzegovina complies with the provisions of Directive 2009/72.  
The draft of the new Electricity Law is in the adoption procedure and meets the requirements of the Directive 2019/944 and Regulation 2019/943.

**Smart metering**

In the context of smart metering, legislation of Federation of Bosnia and Herzegovina complies with the provisions of Directive 2009/72.  
The draft of the new Electricity Law is in the adoption procedure and meets the requirements of the Directive 2019/944 and Regulation 2019/943.

**Data management**

In the context of data management, legislation of Federation of Bosnia and Herzegovina complies with the provisions of Directive 2009/72.  
The draft of the new Electricity Law is in the adoption procedure and meets the requirements of the Directives 2019/943 and 2019/944.

**Management of grid losses**

In the context of management of grid losses, legislation of Federation of Bosnia and Herzegovina complies with the provisions of Directive 2009/72.  
The draft of the new Electricity Law is in the adoption procedure and meets the requirements of the Directive 2019/944.

**TSO-DSO Cooperation**

The draft of the new Electricity Law is in the adoption procedure and meets the requirements of the Directive 2019/944 and Regulation 2019/943.

**Tariffs / network charges**

In the context of tariffs/network charges, legislation of Federation of Bosnia and Herzegovina complies with the provisions of Directive 2009/72.  
The draft of the new Electricity Law is in the adoption procedure and meets the requirements of the Directive 2019/944 and Regulation 2019/943.

- fully implemented and complies with the EU legislation
- partially implemented
- not implemented
- not regulated by the legal act



# CEP implementation status

| Bosnia and Herzegovina-Republic of Srpska |                          |          |                |                 |                           |                     |                           |
|---|--------------------------|----------|----------------|-----------------|---------------------------|---------------------|---------------------------|
| Roles                                     | Grid access / connection | Planning | Smart metering | Data management | Management of grid losses | TSO-DSO Cooperation | Tariffs / network charges |
| Directive 2009/72                         | Green                    | Green    | Yellow         | Green           | Green                     | Grey                | Green                     |
| Directive 2019/944                        | Yellow                   | Yellow   | Yellow         | Yellow          | Yellow                    | Red                 | Yellow                    |
| Regulation 2019/943                       | Red                      | Red      | Grey           | Red             | Grey                      | Red                 | Red                       |

- fully implemented and complies with the EU legislation
  - partially implemented
  - not implemented  
 - not regulated by the legal act

## Grid access / connection

In the context of network access and connection, the legislation of the Republic of Srpska is aligned with the provisions of Directive 2009/72. The Law on Electricity (Official Gazette of RS No. 68/20) is in line with the requirements of Directive 2019/944 and Regulation 2019/943.

## Planning

In the context of DSO network planning, the Law on Electricity of the RS is harmonized with the provisions of Directives 2009/72 and 2019/944. Making annual and three-year plans is already a long-standing practice. A ten-year investment plan is being developed. After the approval from the Regulatory Commission, it will be the basis for seeking long-term financial support for starting the investment cycle in the distribution network from the available EU pre-accession funds.

## Smart metering

In the context of smart metering, the requirements from Directive 2009/72 and 2019/944 have been transposed into the adopted Law on Electricity. It is indisputable that new technologies will be applied in practice, that smart metering is a necessary instrument for significantly raising the level of reliability in monitoring and managing consumption and metering. The dynamics of realization of smart metering development projects directly depends on the investment capacity of distribution companies, which is unfortunately very low.

## Data management

The Law on Electricity reflects the requirements of the relevant Directives 2009/72 and 2019/944, when it comes to requirements related to the exchange of data between participants in the wholesale electricity market. DSO is obliged to deliver data on users of the distribution network to all interested parties. The exchange of data, on the territory of the RS, is implemented in accordance with the Rules for electronic data exchange approved by the Regulatory Commission. The rules were drafted in accordance with EDI standards, in accordance with which the format and content of exchanged messages are prescribed and unified.

## Management of grid losses

The Law on Electricity, in accordance with the relevant Directives, prescribes obligations related to the supervision of distribution losses, which in current conditions are the most significant risk factor when it comes to the business of distribution companies. After the adoption of the Law, the Rulebook on the Methodology for determining the fee for the use of the distribution network was adopted. A three-year regulatory period was introduced. The level of permitted losses is determined, and the price at which distributors purchase energy to cover distribution losses is determined. The law stipulates the obligation to purchase energy for the purposes of covering distribution losses on the market, which for this year was done by applying an exemption from the obligation to apply the Law on Public Procurement.

## TSO-DSO Cooperation

In the context of TSO-DSO cooperation, the Law on Electricity and the Law on Renewable Sources in RS are harmonized with the provisions of the Directive 2019/944.

## Tariffs / network charges

The law took over the obligations from the relevant Directives. The Regulatory Commission adopted a rulebook on the methodology for determining network usage fees. The tariff procedure was carried out. Fees for the use of the distribution network for the next three-year regulatory period have been determined. The increase in prices for the use of the distribution network was not well received by users.



# CEP implementation status

| R. Moldova          |                          |          |                |                 |                           |                     |                           |
|---------------------|--------------------------|----------|----------------|-----------------|---------------------------|---------------------|---------------------------|
| Roles               | Grid access / connection | Planning | Smart metering | Data management | Management of grid losses | TSO-DSO Cooperation | Tariffs / network charges |
| Directive 2009/72   | Green                    | Green    | Red            | Green           | Green                     | Grey                | Green                     |
| Directive 2019/944  | Green                    | Yellow   | Red            | Red             | Green                     | Green               | Yellow                    |
| Regulation 2019/943 | Red                      | White    | Grey           | Red             | Grey                      | Red                 | Red                       |

**Grid access / connection**  
 In the context of network access and connection, R Moldova legislation complies with the provisions of Directive 2009/72 and Directive 2019/944. The provisions of the Regulation 2019/943 need to be transposed into R Moldova legislation, including non-discriminatory access in the context of storage emergence, demand response and the EV sector.

**Planning**  
 R Moldova legislation complies with the provisions of Directive 2009/72. However, the provisions of Directive 2019/944 need to be transposed in the sphere of planning of EV facilities, storage of electricity, etc.

**Smart metering**  
 Directive 2019/944 needs to be transposed in R Moldova legislation

**Data management**  
 In the context data management, R Moldova legislation complies with the provisions of Directive 2009/72. Directive 2019/944 and Regulation 2019/943 need to be transposed in R Moldova legislation.

**Management of grid losses**  
 In the context of management of grid losses, R Moldova legislation complies with the provisions of Directive 2009/72 and Directive 2019/944.

**TSO-DSO Cooperation**  
 In the context of TSO/DSO cooperation R Moldova legislation contains provision that are in compliance with the provisions of Directive 2009/72 and Directive 2019/944. The provisions of the Regulation 2019/943 are to be approximated.

**Tariffs / network charges**  
 The provisions of the Directive 2009/72 regarding tariff setting, network charges and corresponding methodologies are fully implemented. The Directive 2019/944 is partially implemented, in particular provision for active customers. The Regulation 2019/943 is not transposed.

- fully implemented and complies with the EU legislation
  - partially implemented
  - not implemented  
 - not regulated by the legal act



# CEP implementation status

| Albania             |                          |          |                |                 |                           |                     |                           |
|---------------------|--------------------------|----------|----------------|-----------------|---------------------------|---------------------|---------------------------|
| Roles               | Grid access / connection | Planning | Smart metering | Data management | Management of grid losses | TSO-DSO Cooperation | Tariffs / network charges |
| Directive 2009/72   | Green                    | Green    | Yellow         | Green           | Green                     | Grey                | Yellow                    |
| Directive 2019/944  | Green                    | Yellow   | Red            | Green           | Green                     | Green               | Yellow                    |
| Regulation 2019/943 | Red                      | Red      | Grey           | Green           | Grey                      | Red                 | Red                       |

**Grid access / connection**  
 In the context of network access and connection, Albanian legislation complies with the provisions of Directive 2009/72 and Directive 2019/944.  
 The provisions of the Regulation need to be transposed into Albanian legislation regarding the energy storage, demand response and the electrification of the transport sector.

**Planning**  
 The provisions of Directive 2019/944 need to be transposed in the fields of facilitate the development of energy storage, electrification of the transport sector ( EV-s) etc. The provisions of Regulation (EU) 2019/943 need to be transposed into Albanian legislation.

**Smart metering**  
 In the context of Smart Metering, Albania legislation complies partially with the provisions of Directive 2009/72. Directive 2019/944 needs to be transposed into Albanian legislation.

**Data management**  
 In the context data management, Albanian legislation complies with the provisions of Directive 2009/72, Directive 2019/944. The provisions of the Regulation regarding data management are not implemented into Albanian legislation.

**Management of grid losses**  
 In the context of management of grid losses, Albanian legislation complies with the provisions of Directive 2009/72 and Directive 2019/944.

**TSO-DSO Cooperation**  
 In the context of TSO/DSO cooperation Albanian legislation contain provision that are in compliance with the provisions of Directive 2019/944.  
 The provisions of the Regulation need to be approximated.

**Tariffs / network charges**  
 Albanian legislation partially complies with the provisions of Directive 2009/72 . Provisions of the Directive 2019/944 partially correspond to the provisions of Albanian legislation and need to be approximated. The provisions of Regulation ( EU)2019/943 need to be transposed into Albanian legislation

- fully implemented and complies with the EU legislation
  - partially implemented
  - not implemented  
 - not regulated by the legal act



# CEP implementation status

| Serbia              |                          |          |                |                 |                           |                     |                           |
|---------------------|--------------------------|----------|----------------|-----------------|---------------------------|---------------------|---------------------------|
| Roles               | Grid access / connection | Planning | Smart metering | Data management | Management of grid losses | TSO-DSO Cooperation | Tariffs / network charges |
| Directive 2009/72   | Green                    | Green    | Red            | Green           | Yellow                    | Grey                | Yellow                    |
| Directive 2019/944  | Yellow                   | Yellow   | Red            | Green           | Yellow                    | Yellow              | Yellow                    |
| Regulation 2019/943 | Red                      | Yellow   | Grey           | Yellow          | Grey                      | Yellow              | Yellow                    |

**Grid access / connection**  
 In the context of network access and connection, Serbian legislation complies with the provisions of Directive 2009/72. In the context of network access and connection, Serbian legislation partially correspond with the provisions of Directive 2019/944. The provisions of the Regulation need to be transposed into Serbian legislation in the context of storage emergence, demand response and the EV sector.

**Planning**  
 In the context of planning , Serbian legislation complies with the provisions of Directive 2009/72 and partially correspond with the provisions of Directive 2019/944. The provisions of the Regulation partially implemented into legislation.

**Smart metering**  
 Provisions are not transposed.

**Data management**  
 In the context data management, Serbian legislation complies with the provisions of Directive 2009/72. Serbian legislation partially complies with the provisions of Directive 2019/944. The provisions of the Regulation partially implemented into legislation.

**Management of grid losses**  
 In the context of management of grid losses, Serbian legislation partially complies with the provisions of Directive 2009/72 and Directive 2019/944.

**TSO-DSO Cooperation**  
 In the context of TSO/DSO cooperation Serbian legislation contain provision that are partially complies with the provisions of Directive 2019/944 and Regulation 2019/943.

**Tariffs / network charges**  
 In the context of the tariffs and network charges, Serbian legislation partially complies with the provisions of Directive 2009/72. Serbian legislation partially complies with the provisions of Directive 2019/944. The provisions of the Regulation are partially implemented.

- fully implemented and complies with the EU legislation
  - partially implemented
  - not implemented

- not regulated by the legal act



## CEP implementation status

| Montenegro          |                          |          |                |                 |                           |                     |                           |
|---------------------|--------------------------|----------|----------------|-----------------|---------------------------|---------------------|---------------------------|
| Roles               | Grid access / connection | Planning | Smart metering | Data management | Management of grid losses | TSO-DSO Cooperation | Tariffs / network charges |
| Directive 2009/72   | Green                    | Green    | Green          | Green           | Green                     | Grey                | Green                     |
| Directive 2019/944  | Yellow                   | Yellow   | Red            | Yellow          | Green                     | Red                 | Yellow                    |
| Regulation 2019/943 | Red                      | Red      | Grey           | Red             | Grey                      | Red                 | Red                       |

### Grid access / connection

In the context of network access and connection Montenegrin legislation complies with the provisions of Directive 2009/72 and partially with Directive 2019/944. The provisions of the Regulation 2019/943 need to be transposed into Montenegrin legislation, including non-discriminatory access in the context of storage emergence, demand response and the EV sector.

### Planning

In the context of network planning Montenegrin legislation complies with the provisions of Directive 2009/72 and partly with the Directive 2019/944. However, the provisions of Directive 2019/944 need to be transposed in the sphere of planning of EV facilities, storage of electricity, etc. The provisions of Regulation (EU) 2019/943 need to be transposed.

### Smart metering

In the context of Smart Metering, Montenegrin legislation complies with the provisions of Directive 2009/72. Directive 2019/944 needs to be transposed into Montenegrin legislation. Obligation from energy law is that distribution system operator shall equip at least 85% of customers with means of modern metering system until January 1st, 2019.

### Data management

In the context data management, Montenegrin legislation complies with the provisions of Directive 2009/72, Montenegrin legislation partially complies with the provisions of Directive 2019/944. The provisions of Regulation (EU) 2019/943 need to be transposed.

### Management of grid losses

In the context of management of grid losses, Montenegrin legislation complies with the provisions of Directive 2009/72 and Directive 2019/944. In previous years, the fulfillment of these directives proved to be the most significant risk in the business of distribution system operator in Montenegro.

### TSO-DSO Cooperation

Directive 2019/944 and Regulation 2019/943 need to be transposed.

### Tariffs / network charges

Montenegro has fully implemented the provisions of the Directive 2009/72 in the context of tariff setting , network charges and relevant methodologies. The Directive 2019/944 is partially implemented. Regulation 2019/943 is not transposed yet.

|   |  |   |                         |   |                   |
|---|--|---|-------------------------|---|-------------------|
|  | - fully implemented and complies with the EU legislation |  | - partially implemented |  | - not implemented |
|  | - not regulated by the legal act                         |   |                         |   |                   |