REGULATION (EU) 2017/1938 of 25 October 2017 concerning measures to safeguard the security of gas supply and repealing Regulation (EU) 994/2010


The adaptations made by Ministerial Council Decision 2021/15/MC-EnC are highlighted in bold and blue.

Article 1
Subject matter

This Regulation lays down rules for cooperation between Contracting Parties with a view to preventing, mitigating and managing gas crises in full regard for the requirements of a competitive single market for gas.¹

Article 2
Definitions

(1) For the purposes of this Regulation, the following definitions apply:


(4) ‘essential social service’ means a service related to healthcare, essential social care, emergency, security, education or public administration;

(5) ‘protected customer’ means a household customer who is connected to a gas distribution network and, in addition, where the Contracting Party concerned so decides, may also mean one or more of the following, provided that enterprises or services as referred to in points (a) and (b) do not, jointly, represent more than 20 % of the total annual final gas consumption in that Contracting Party:

a) a small or medium-sized enterprise, provided that it is connected to a gas distribution network;

b) an essential social service, provided that it is connected to a gas distribution or transmission network;

c) a district heating installation to the extent that it delivers heating to household customers, small

¹ The text displayed here corresponds to Article 4(1) of Ministerial Council Decision 2021/15/MC-EnC
or medium-sized enterprises, or essential social services, provided that such installation is not able
to switch to other fuels than gas;

(6) <…>²

(7) ‘competent authority’ means a national governmental authority or a national regulatory author-
ity designated by a Contracting Party to ensure the implementation of the measures provided
for in this Regulation;

(8) ‘national regulatory authority’ means a national regulatory authority designated in accordance
with Article 39(1) of Directive 2009/73/EC, as adapted and adopted by Ministerial Council
Decision 2011/02/MC-EnC;

(9) ‘natural gas undertaking’ means natural gas undertaking as defined in point 1 of Article 2 of
Directive 2009/73/EC, as adapted and adopted by Ministerial Council Decision 2011/02/
MC-EnC;

(10) ‘gas supply contract’ means gas supply contract as defined in point 34 of Article 2 of Directive
2009/73/EC, as adapted and adopted by Ministerial Council Decision 2011/02/MC-EnC;

(11) ‘transmission’ means transmission as defined in point 3 of Article 2 of Directive 2009/73/EC, as
adapted and adopted by Ministerial Council Decision 2011/02/MC-EnC;

(12) ‘transmission system operator’ means transmission system operator as defined in point 4 of
Article 2 of Directive 2009/73/EC, as adapted and adopted by Ministerial Council Decision
2011/02/MC-EnC;

(13) ‘distribution’ means distribution as defined in point 5 of Article 2 of Directive 2009/73/EC, as
adapted and adopted by Ministerial Council Decision 2011/02/MC-EnC;

(14) ‘distribution system operator’ means distribution system operator as defined in point 6 of
Article 2 of Directive 2009/73/EC, as adapted and adopted by Ministerial Council Decision
2011/02/MC-EnC;

(15) ‘interconnector’ means interconnector as defined in point 17 of Article 2 of Directive 2009/73/
EC, as adapted and adopted by Ministerial Council Decision 2011/02/MC-EnC;

(16) <…>³

(17) ‘storage capacity’ means storage capacity as defined in point 28 of Article 2 of Regulation (EC)
No 715/2009, as adapted and adopted by Ministerial Council Decision 2011/02/MC-EnC;

(18) ‘technical capacity’ means technical capacity as defined in point 18 of Article 2 of Regula-
tion (EC) No 715/2009, as adapted and adopted by Ministerial Council Decision 2011/02/
MC-EnC;

(19) ‘firm capacity’ means firm capacity as defined in point 16 of Article 2 of Regulation (EC)
No 715/2009, as adapted and adopted by Ministerial Council Decision 2011/02/MC-EnC;

(20) ‘interruptible capacity’ means interruptible capacity as defined in point 13 of Article 2 of
2011/02/MC-EnC;

(21) ‘LNG facility capacity’ means LNG facility capacity as defined in point 24 of Article 2 of Regu-
lation (EC) No 715/2009, as adapted and adopted by Ministerial Council Decision

² Not applicable according to Article 4(2)a of Ministerial Council Decision 2021/15/MC-EnC
³ Not applicable according to Article 4(2)a of Ministerial Council Decision 2021/15/MC-EnC
PART II ACQUIS COMMUNAUTAIRE / GAS / REGULATION (EU) 2017/1938

2011/02/MC-EnC;

(22) ‘LNG facility’ means LNG facility as defined in point 11 of Article 2 of Directive 2009/73/EC, as adapted and adopted by Ministerial Council Decision 2011/02/MC-EnC;

(23) ‘storage facility’ means storage facility as defined in point 9 of Article 2 of Directive 2009/73/EC, as adapted and adopted by Ministerial Council Decision 2011/02/MC-EnC;


(25) ‘system user’ means system user as defined in point 23 of Article 2 of Directive 2009/73/EC, as adapted and adopted by Ministerial Council Decision 2011/02/MC-EnC;

(26) ‘ancillary services’ means ancillary services as defined in point 14 of Article 2 of Directive 2009/73/EC, as adapted and adopted by Ministerial Council Decision 2011/02/MC-EnC.

(27) ‘Security of Supply Coordination Group’ is the group established by Procedural Act 2008/02/MC-EnC of 11 December 2008, as amended by Procedural Act 2021/03/MC-EnC.

Article 3

Responsibility for the security of gas supply

1. The security of gas supply shall be the shared responsibility of natural gas undertakings, Contracting Parties, in particular through their competent authorities, and the Energy Community Secretariat, within their respective areas of activity and competence.

2. Each Contracting Party shall designate a competent authority. The competent authorities shall cooperate with each other in the implementation of this Regulation. Contracting Parties may allow the competent authority to delegate specific tasks set out in this Regulation to other bodies. Where competent authorities delegate the task of declaring any of the crisis levels referred to in Article 11(1), they shall do so only to a public authority, a transmission system operator or a distribution system operator. Delegated tasks shall be performed under the supervision of the competent authority and shall be specified in the preventive action plan and in the emergency plan.

3. Each Contracting Party shall, without delay, notify the Energy Community Secretariat, and make public, the name of its competent authority and any changes thereto.

4. When implementing the measures provided for in this Regulation, the competent authority shall establish the roles and responsibilities of the different actors concerned in such a way as to ensure a two-level approach which involves, first, the relevant natural gas undertakings, electricity undertakings where appropriate, and industry, and second, Contracting Parties at national level.<...>

5. The Energy Community Secretariat shall coordinate the action of the competent authorities, pursuant to this Regulation, inter alia, through the Security of Supply Coordination Group.

6. <...>

7. <...>

8. <...>
Article 4
Security of Supply Coordination Group⁷

1. <…>⁸

2. The Security of Supply Coordination Group shall be consulted and shall assist the Energy Community Secretariat in particular on the following issues:
   (a) the security of gas supply, at any time and more specifically in the event of an emergency;
   (b) all information relevant to the security of gas supply at national <…> level;
   (c) best practices and possible guidelines to all the parties concerned;
   (d) the level of the security of gas supply, benchmarks and assessment methodologies;
   (e) national <…> scenarios and testing the levels of preparedness;
   (f) the assessment of the preventive action plans and the emergency plans, the coherence across the various plans, and the implementation of the measures provided for therein;
   (g) the coordination of measures to deal with the Energy Community Contracting Parties <…>;
   (h) assistance needed by the most affected Contracting Parties.

3. The Energy Community Secretariat shall convene the Security of Supply Coordination Group on a regular basis and shall share the information received from the competent authorities whilst preserving the confidentiality of commercially sensitive information.

4. The Energy Community Secretariat may convene the Security of Supply Coordination Group in a setting which is restricted to the representatives of the Contracting Parties and in particular of their competent authorities. The Energy Community Secretariat shall convene the Security of Supply Coordination Group in this restricted setting if so requested by one or more of the representatives of the Contracting Parties and in particular of their competent authorities. <…>

Article 5
Infrastructure standard⁹

1. Each Contracting Party or, where a Contracting Party so provides, its competent authority shall ensure that the necessary measures are taken so that in the event of a disruption of the single largest gas infrastructure, the technical capacity of the remaining infrastructure, determined in accordance with the N – 1 formula as set out in point 2 of Annex II, is able, without prejudice to paragraph 2 of this Article, to satisfy total gas demand of the calculated area during a day of exceptionally high gas demand occurring with a statistical probability of once in 20 years. This shall be done taking into account gas consumption trends, the long-term impact of energy efficiency measures and the utilisation rates of existing infrastructure.

⁷ The text displayed here corresponds to Article 4(4) of Ministerial Council Decision 2021/15/MC-EnC
⁸ Not applicable according to Article 4(4)a of Ministerial Council Decision 2021/15/MC-EnC
⁹ The text displayed here corresponds to Article 4(5) of Ministerial Council Decision 2021/15/MC-EnC
The obligation set out in the first subparagraph of this paragraph shall be without prejudice to the responsibility of the transmission system operators to make the corresponding investments and to the obligations of transmission system operators as laid down in Regulation (EC) No 715/2009 and Directive 2009/73/EC as adapted and adopted by Ministerial Council Decision 2011/02/MC-EnC.

2. The obligation to ensure that the remaining infrastructure has the technical capacity to satisfy total gas demand, as referred to in paragraph 1 of this Article, shall also be considered to be fulfilled where the competent authority demonstrates in the preventive action plan that a disruption of gas supply may be sufficiently compensated for, in a timely manner, by appropriate market-based demand-side measures. For that purpose, the N – 1 formula shall be calculated as set out in point 4 of Annex II.

3. <…> 10

4. The transmission system operators shall enable permanent physical capacity to transport gas in both directions (‘bi-directional capacity’) on all interconnections between Contracting Parties, except for existing interconnectors included in Annex III.

<…>

5. <…> 11

6. National regulatory authorities shall take into account the efficiently incurred costs of fulfilling the obligation set out in paragraph 1 of this Article and the costs of enabling bi-directional capacity so as to grant appropriate incentives when fixing or approving, in a transparent and detailed manner, the tariffs or methodologies in accordance with Article 13 of Regulation (EC) No 715/2009 and Article 41(8) of Directive 2009/73/EC, as adapted and adopted by Ministerial Council Decision 2011/02/MC-EnC.

7. In so far as an investment for enabling or enhancing bi-directional capacity is not required by the market but is considered to be necessary for the security of gas supply purposes and where that investment incurs costs in more than one Contracting Party or in one Contracting Party for the benefit of another Contracting Party, the national regulatory authorities of all Contracting Parties concerned shall take a coordinated decision on cost allocation before any investment decision is taken. The cost allocation shall take into account the principles described and the elements contained in Article 12(4) of Regulation (EU) No 347/2013, as adapted and adopted by Ministerial Council Decision 2015/09/MC-EnC in particular the proportion of the benefits of the infrastructure investments for the increase of the security of gas supply of the Contracting Parties concerned as well as investments already made in the infrastructure in question. The cost allocation shall not unduly distort competition and the effective functioning of the single market and shall seek to avoid any undue distortive effect on the market.

8. The competent authority shall ensure that any new transmission infrastructure contributes to the security of gas supply through the development of a well-connected network, including, where appropriate, by means of a sufficient number of cross-border entry and exit points relative to market demand and the risks identified.

The competent authority shall assess in the risk assessment whether, with an integrated perspective on gas and electricity systems, internal bottlenecks exist and national entry capacity and infrastructure, in particular transmission networks, are capable of adapting the national and cross-border gas flows

10 Not applicable according to Article 4(5)a of Ministerial Council Decision 2021/15/MC-EnC
11 Not applicable according to Article 4(5)c of Ministerial Council Decision 2021/15/MC-EnC
to the scenario of disruption of the single largest gas infrastructure at national level identified in the risk assessment.

9. By way of exception from paragraph 1 of this Article, and subject to the conditions laid down in this paragraph, Bosnia and Herzegovina and Georgia shall not be bound by, but shall endeavour to meet, the obligation set out in that paragraph, while ensuring the gas supplies to protected customers in accordance with Article 6.

The exception for Georgia shall cease to apply once it has:
(a) at least one interconnector with other Parties and
(b) gas storage facilities or an LNG facility on its territory.

The exception shall cease to apply to Bosnia and Herzegovina, once it has:
(a) gas transit to other Parties and
(b) More than 5% of total primary energy consumption from gas.

Bosnia and Herzegovina and Georgia shall inform the Energy Community Secretariat of any change affecting the conditions laid down in this paragraph. The exception laid down in this paragraph shall cease to apply where at least one of those conditions is no longer fulfilled.

As part of the national risk assessment carried out in accordance with Article 7(3) Bosnia and Herzegovina and Georgia shall describe the situation with respect to the respective conditions laid down in this paragraph and the prospects for compliance with the obligation in paragraph 1 of this Article, taking into account the economic impact of meeting the infrastructure standard and the gas market development. On the basis of the information provided in the national risk assessment and if the respective conditions laid down in this paragraph are still met, the Ministerial Council, upon a proposal by the Energy Community Secretariat and acting in accordance with Article 83 of the Treaty may decide that the exception can continue to apply for four more years. In the event of a positive decision, the procedure set out in this subparagraph shall be repeated after four years.

**Article 6**

**Gas supply standard**

1. The competent authority shall require the natural gas undertakings that it identifies, to take measures to ensure the gas supply to the protected customers of the Contracting Party in each of the following cases:
   a) extreme temperatures during a 7-day peak period occurring with a statistical probability of once in 20 years;
   b) any period of 30 days of exceptionally high gas demand, occurring with a statistical probability of once in 20 years;
   c) for a period of 30 days in the case of disruption of the single largest gas infrastructure under average winter conditions.

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12 The text displayed here corresponds to Article 4(6) of Ministerial Council Decision 2021/15/MC-EnC
By **26 February 2022**, each **Contracting Party** shall notify to the **Energy Community Secretariat** its definition of protected customers, the annual gas consumption volumes of the protected customers and the percentage that those consumption volumes represent of the total annual final gas consumption in that **Contracting Party**. Where a **Contracting Party** includes in its definition of protected customers the categories referred to in point (5)(a) or (b) of Article 2, it shall specify the gas consumption volumes corresponding to customers belonging to those categories and the percentage that each of those groups of customers represents in total annual final gas consumption.

The competent authority shall identify the natural gas undertakings referred to in the first subparagraph of this paragraph and shall specify them in the preventive action plan.

Any new non-market-based measures envisaged to ensure the gas supply standard shall comply with the procedure established in Article 9(4) to (9).

**Contracting Parties** may comply with the obligation laid down in the first subparagraph through the implementation of energy efficiency measures or by replacing the gas with a different source of energy, inter alia, renewable energy sources, to the extent that the same level of protection is achieved.

2. Any increased gas supply standard beyond the 30-day period referred to in points (b) and (c) of paragraph 1 or any additional obligation imposed for reasons of security of gas supply shall be based on the risk assessment, shall be reflected in the preventive action plan and shall:

(a) comply with Article 8(1);

(b) not impact negatively on the ability of any other **Contracting Party** to supply gas to its protected customers in accordance with this Article in the event of a national <…> emergency.

(c) <…> 13

The **Energy Community Secretariat** may require a justification showing compliance of any measure referred to in the first subparagraph with the conditions laid down therein. Such a justification shall be made public by the competent authority of the **Contracting Party** that introduces the measure.

Any new non-market-based measure pursuant to the first subparagraph of this paragraph, adopted on or after **the entry into force of this Regulation** shall comply with the procedure established in Article 9(4) to (9).

3. After the expiry of the periods laid down by the competent authority in accordance with paragraphs 1 and 2, or under more severe conditions than those laid down in paragraph 1, the competent authority and natural gas undertakings shall endeavour to maintain, as far as possible, the gas supply, in particular to protected customers.

4. The obligations imposed on natural gas undertakings for the fulfilment of the gas supply standards laid down in this Article shall be non-discriminatory and shall not impose an undue burden on those undertakings.

5. <…> 14. The competent authorities shall not require the gas supply standards laid down in this Article to be met based on infrastructure located only within their territory.

6. The competent authorities shall ensure that conditions for supplies to protected customers are established without prejudice to the proper functioning of the **single** energy market and at a price respecting the market value of the supplies.

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13 Not applicable according to Article 4(6)c of Ministerial Council Decision 2021/15/MC-EnC
14 Not applicable according to Article 4(6)d of Ministerial Council Decision 2021/15/MC-EnC
Article 7
Risk assessment

1. <…>
2. <…>\(^{16}\)

3. The competent authority of each Contracting Party shall make a national risk assessment (‘national risk assessment’) of all relevant risks affecting the security of gas supply. <…>

4. The risk assessments referred to in paragraphs 2 and 3 of this Article shall be carried out, as relevant, by:

(a) using the standards specified in Articles 5 and 6. The risk assessment shall describe the calculation of the N – 1 formula at national level <…>. The risk assessment shall also include assumptions used, including where applicable those for the calculation of N-1 formula at regional level, and the data necessary for such calculation. The calculation of the N – 1 formula at national level shall be accompanied by a simulation of disruption of the single largest gas infrastructure using hydraulic modelling for the national territory as well as by a calculation of the N – 1 formula considering the level of gas in storages at 30 % and 100 % of the maximum working volume;

(b) taking into account all relevant national and transnational circumstances, in particular market size, network configuration, actual flows, including outflows from the Contracting Parties concerned, the possibility of physical gas flows in both directions including the potential need for consequent reinforcement of the transmission system, the presence of production and storage or LNG terminal and the role of gas in the energy mixes, in particular with respect to district heating and electricity generation and for the operation of industries, and safety and gas quality considerations;

(c) running various scenarios of exceptionally high demand for gas and disruption of gas supply, taking into account the history, probability, season, frequency and duration of their occurrence and assessing their likely consequences, such as:

(i) disruption of the infrastructure relevant to the security of gas supply, in particular transmission infrastructure, storages or LNG terminals, including the largest gas infrastructure identified for the calculation of N – 1 formula; and

(ii) disruption of supplies from third-country suppliers, as well as, where appropriate, geopolitical risks;

(d) identifying the interaction and correlation of risks with other Contracting Parties, as appropriate, including, as regards interconnections, cross-border supplies, cross-border access to storage or LNG facilities and bi-directional capacity;

(e) taking into account risks relating to the control of infrastructure relevant to the security of gas supply to the extent that they may involve, inter alia, risks of underinvestment, undermining diversification, misuse of existing infrastructure or an infringement of Energy Community law;

(f) taking into account the maximal interconnection capacity of each border entry and exit point and various filling levels for storage.

\(^{15}\) The text displayed here corresponds to Article 4(7) of Ministerial Council Decision 2021/15/MC-EnC
\(^{16}\) Not applicable according to Article 4(7)a of Ministerial Council Decision 2021/15/MC-EnC
5. The national risk assessments shall be prepared in accordance with the relevant template set out in Annex V. If necessary, Contracting Parties may include additional information. <...>

6. Natural gas undertakings, industrial gas customers, the relevant organisations representing the interests of household and industrial gas customers as well as Contracting Parties and, where they are not the competent authorities, the national regulatory authorities, shall cooperate with the competent authorities and provide them upon request with all necessary information for the common and national risk assessments.

7. By 1 January 2024 Contracting Parties shall notify to the Energy Community Secretariat the national risk assessments. The risk assessments shall be updated every four years thereafter unless circumstances warrant more frequent updates. The risk assessments shall take account of progress made in investments needed to cope with the infrastructure standard defined in Article 5 and of country-specific difficulties encountered in the implementation of new alternative solutions. They shall also build on the experience acquired through the simulation of the emergency plans contained in Article 10(3).

Article 8
Establishment of preventive action plans and emergency plans17

1. The measures to ensure the security of gas supply contained in a preventive action plan and an emergency plan shall be clearly defined, transparent, proportionate, non-discriminatory and verifiable, shall not unduly distort competition or the effective functioning of the single market in gas and shall not endanger the security of gas supply of other Contracting Parties <...>.

2. The competent authority of each Contracting Party shall, after consulting the natural gas undertakings, the relevant organisations representing the interests of household and industrial gas customers, including electricity producers, electricity transmission system operators, and, where it is not the competent authority, the national regulatory authority, establish:

(a) a preventive action plan containing the measures needed to remove or mitigate the risks identified, including the effects of energy efficiency and demand-side measures in the <...> national risk assessments and in accordance with Article 9;

(b) an emergency plan containing the measures to be taken to remove or mitigate the impact of a disruption of gas supply in accordance with Article 10.

3. <...>18.

4. The competent authorities shall report regularly to the Security of Supply Coordination Group on the progress achieved on the preparation and adoption of the preventive action plans and the emergency plans.

The competent authorities shall ensure the regular monitoring of the implementation of the preventive action plan and the emergency plan.

The preventive action plan and the emergency plan shall be developed in accordance with the templates contained in Annexes VI and VII. <...>

17 The text displayed here corresponds to Article 4(8) of Ministerial Council Decision 2021/15/MC-EnC
18 Not applicable according to Article 4(8)b of Ministerial Council Decision 2021/15/MC-EnC
7. The preventive action plans and the emergency plans shall be made public and notified to the Energy Community Secretariat by 1 May 2024. The Energy Community Secretariat shall inform the Security of Supply Coordination Group about the notification of the plans and publish them on the Energy Community’s website.

Within four months of the notification by the competent authorities, the Energy Community Secretariat shall assess the plans taking into account the views expressed in the Security of Supply Coordination Group.

8. The Energy Community Secretariat shall issue an opinion to the competent authority with the recommendation to review a preventive action plan or an emergency plan if one or more of the following applies:

(a) it is not effective to mitigate the risks as identified in the risk assessment;
(b) it is inconsistent with the risk scenarios assessed or with the plans of another Contracting Party;
(c) it does not comply with the requirement laid down in paragraph 1 not unduly to distort competition or the effective functioning of the single market;
(d) it does not comply with the provisions of this Regulation or other provisions of Energy Community law.

9. Within three months of notification of the Energy Community Secretariat’s opinion referred to in paragraph 8, the competent authority concerned shall notify the amended preventive action plan or the emergency plan to the Energy Community Secretariat, or shall inform the Energy Community Secretariat of the reasons for which it disagrees with the recommendations.

In the event of disagreement related to elements referred to in paragraph 8, the Energy Community Secretariat may, within four months of the reply of the competent authority, withdraw its request or convene the competent authority and, where the Energy Community Secretariat considers it to be necessary, the Security of Supply Coordination Group, in order to consider the issue. The Energy Community Secretariat shall set out its detailed reasons for requesting any amendments to the preventive action plan or the emergency plan. The competent authority concerned shall take full account of the detailed reasons of the Energy Community Secretariat.

Where applicable, the competent authority concerned shall without delay amend and make the amended preventive action plan or emergency plan public.

Where the final position of the competent authority concerned diverges from the Energy Community Secretariat’s detailed reasons that competent authority shall provide and make public, together with its position and the Energy Community Secretariat’s detailed reasons, the justification underlying its position within two months of receipt of the detailed reasons of the Energy Community Secretariat.

10. For non-market-based measures adopted on or after entry into force of the Regulation, the procedure set out in Article 9(4), (6), (8) and (9) shall apply.

11. The confidentiality of commercially sensitive information shall be preserved.

12. Preventive action plans and emergency plans developed before entry in the force of this Reg-

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19 Not applicable according to Article 4(8)d of Ministerial Council Decision 2021/15/MC-EnC
ulation, shall remain in force until the preventive action plans and the emergency plans referred to in paragraph 1 of this Article are established for the first time.

**Article 9**

**Content of preventive action plans**

1. The preventive action plan shall contain:

   (a) the results of the risk assessment and a summary of the scenarios considered, as referred to in point (c) of Article 7(4);

   (b) the definition of protected customers and the information described in the second subparagraph of Article 6(1);

   (c) the measures, volumes and capacities needed to fulfil the infrastructure and gas supply standards laid down in Articles 5 and 6, including, where applicable, the extent to which demand-side measures can sufficiently compensate, in a timely manner, for a disruption of gas supply as referred to in Article 5(2), the necessary gas volumes per category of protected customers and per scenario as referred to in Article 6(1), and any increased gas supply standard including any justification showing compliance with the conditions laid down in Article 6(2);

   (d) obligations imposed on natural gas undertakings, electricity undertakings where appropriate, and other relevant bodies likely to have an impact on the security of gas supply, such as obligations for the safe operation of the gas system;

   (e) other preventive measures designed to address the risks identified in the risk assessment, such as those relating to the need to enhance interconnections between neighbouring Contracting Parties, to further improve energy efficiency, to reduce gas demand and the possibility to diversify gas routes and sources of gas supply and the regional utilisation of existing storage and LNG capacities, if appropriate, in order to maintain gas supply to all customers as far as possible;

   (f) information on the economic impact, effectiveness and efficiency of the measures contained in the plan, including the obligations referred to in point (k);

   (g) a description of the effects of the measures contained in the plan on the functioning of the single energy market as well as national markets, including the obligations referred to in point (k);

   (h) a description of the impact of the measures on the environment and on customers;

   (i) the mechanisms to be used for cooperation with other Contracting Parties, including the mechanisms for preparing and implementing preventive action plans and emergency plans;

   (j) information on existing and future interconnections and infrastructure, including those providing access to the single market, cross-border flows, cross-border access to storage and LNG facilities and the bi-directional capacity, in particular in the event of an emergency;

   (k) information on all public service obligations that relate to the security of gas supply.

Critical information relating to points (a), (c) and (d) of the first subparagraph which, if revealed, could endanger the security of gas supply, may be excluded.

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20 The text displayed here corresponds to Article 4(9) of Ministerial Council Decision 2021/15/MC-EnC
2. <…>²¹

3. The preventive action plan shall be based primarily on market-based measures and shall not put an undue burden on natural gas undertakings, or negatively impact on the functioning of the single market in gas.

4. Contracting Parties, and in particular their competent authorities, shall ensure that all preventive non-market-based measures, such as those referred to in Annex VIII, adopted on or after entry into force of the Regulation, irrespective of whether they are part of the preventive action plan or adopted subsequently, comply with the criteria laid down in the first subparagraph of Article 6(2).

5. The competent authority shall make public any measure referred to in paragraph 4 which has not yet been included in the preventive action plan, and shall notify to the Energy Community Secretariat the description of any such measure and of its impact on the national gas market and, to the extent possible, on the gas markets of other Contracting Parties.

6. If the Energy Community Secretariat doubts whether a measure referred to in paragraph 4 of this Article complies with the criteria laid down in the first subparagraph of Article 6(2) it shall request from the Contracting Party concerned the notification of an impact assessment.

7. An impact assessment pursuant to paragraph 6 shall cover at least the following:

(a) the potential impact on the development of the national gas market and competition at national level;
(b) the potential impact on the single gas market;
(c) the potential impact on the security of gas supply of neighbouring Contracting Parties, in particular for those measures that could reduce the liquidity in regional markets or restrict flows to neighbouring Contracting Parties;
(d) the costs and benefits, assessed against alternative market-based-measures;
(e) an assessment of necessity and proportionality in comparison with possible market-based measures;
(f) an appreciation whether the measure ensures equal possibilities for all market participants;
(g) a phase-out strategy, the expected duration of the envisaged measure and an appropriate review calendar.

8. The analysis referred to in points (a) and (b) shall be carried out by the national regulatory authority. The impact assessment shall be made public by the competent authority and shall be notified to the Energy Community Secretariat.

Where the Energy Community Secretariat considers, based on the impact assessment that the measure is likely to endanger the security of gas supply of other Contracting Parties <…> it shall issue an opinion within four months of notification of the impact assessment requiring, to the extent necessary, the amendment or withdrawal of the measure.

The adopted measure shall enter into force only when it <…> has been amended in accordance with the Energy Community Secretariat’s opinion.

The four-month period shall begin on the day following receipt of a complete notification. The four-month period may be extended with the consent of both the Energy Community Secretariat and the competent authority.

²¹ Not applicable according to Article 4(9)b of Ministerial Council Decision 2021/15/MC-EnC
9. Where the **Energy Community Secretariat** considers, based on the impact assessment, that the measure does not comply with the criteria laid down in the first paragraph of Article 6(2), the procedure set out in Article 8 (9) shall apply.

10. Article 8(9) shall apply to any measure subject to paragraphs 6 to 9 of this Article.

11. The preventive action plan shall be updated every four years after **1 May 2024** or more frequently if the circumstances so warrant or at the **Energy Community Secretariat’s** request. The updated plan shall reflect the updated risk assessment and the results of the tests carried out in accordance with Article 10(3). Article 8 shall apply to the updated plan.

**Article 10**

Content of emergency plans

1. The emergency plan shall:

   (a) build upon the crisis levels referred to in Article 11(1);
   (b) define the role and responsibilities of natural gas undertakings, transmission system operators for electricity if relevant and of industrial gas customers including relevant electricity producers, taking account of the different extent to which they are affected in the event of a disruption of gas supply, and their interaction with the competent authorities and where appropriate with the national regulatory authorities at each of the crisis levels referred to in Article 11(1);
   (c) define the role and responsibilities of the competent authorities and of the other bodies to which tasks have been delegated as referred to in Article 3(2) at each of the crisis levels referred to in Article 11(1);
   (d) ensure that natural gas undertakings and industrial gas customers including relevant electricity producers are given sufficient opportunity to respond to the crisis levels referred to in Article 11(1);
   (e) identify, if appropriate, the measures and actions to be taken to mitigate the potential impact of a disruption of gas supply on district heating and the supply of electricity generated from gas, including through an integrated view of energy systems operations across electricity and gas if relevant;
   (f) establish detailed procedures and measures to be followed for the crisis levels referred to in Article 11(1), including the corresponding schemes on information flows;
   (g) designate a crisis manager and define its role;
   (h) identify the contribution of market-based measures for coping with the situation at alert level and mitigating the situation at emergency level;
   (i) identify the contribution of non-market-based measures planned or to be implemented for the emergency level, and assess the degree to which the use of such non-market-based measures is necessary to cope with a crisis. The effects of the non-market-based measures shall be assessed and procedures for their implementation defined. Non-market-based measures are to be used only when market-based mechanisms alone can no longer ensure supplies, in particular to protected customers

22 The text displayed here corresponds to Article 4(10) of Ministerial Council Decision 2021/15/MC-EnC
(j) describe the mechanisms used to cooperate with other Contracting Parties for the crisis levels referred to in Article 11(1) and information exchange arrangements between the competent authorities;

(k) detail the reporting obligations imposed on natural gas undertakings and, where appropriate, electricity undertakings at alert and emergency levels;

(l) describe the technical or legal arrangements in place to prevent undue gas consumption of customers who are connected to a gas distribution or transmission network but not protected customers;

(m) ...;

(n) ...23

(o) establish a list of predefined actions to make gas available in the event of an emergency, including commercial agreements between the parties involved in such actions and the compensation mechanisms for natural gas undertakings where appropriate, taking due account of the confidentiality of sensitive data.

In order to prevent undue gas consumption during an emergency, as referred to in point (l) of the first subparagraph, or during the application of the measures referred to in Article 11(3) ..., the competent authority of the Contracting Party concerned shall inform customers who are not protected customers that they are required to cease or reduce their gas consumption without creating technically unsafe situations.

2. The emergency plan shall be updated every four years after 1 May 2024 or more frequently if circumstances so warrant or at the Energy Community Secretariat’s request. The updated plan shall reflect the updated risk assessment and the results of the tests carried out in accordance with paragraph 3 of this Article. Article 8(4) to (11) shall apply to the updated plan.

3. The measures, actions and procedures contained in the emergency plan shall be tested at least once between its four-year updates referred to in paragraph 2. In order to test the emergency plan, the competent authority shall simulate high and medium impact scenarios and responses in real time in accordance with that emergency plan. The results of the tests shall be presented at the Security of Supply Coordination Group by the competent authority.

4. The emergency plan shall ensure that cross-border access to infrastructure in accordance with Regulation (EC) No 715/2009, as adapted and adopted by Ministerial Council Decision 2011/02/MC-EnC, is maintained as far as technically and safely possible in the event of an emergency and shall not introduce any measure unduly restricting the flow of gas across borders.

**Article 11**

Declaration of a crisis

1. There shall be the following three crisis levels:

(a) early warning level (‘early warning’): where there is concrete, serious and reliable information that an event which is likely to result in significant deterioration of the gas supply situation may occur and is likely to lead to the alert or the emergency level being triggered; the early warning level may be

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23 Not applicable according to Article 4(10)a of Ministerial Council Decision 2021/15/MC-EnC
activated by an early warning mechanism;
(b) alert level (‘alert’): where a disruption of gas supply or exceptionally high gas demand which results in significant deterioration of the gas supply situation occurs but the market is still able to manage that disruption or demand without the need to resort to non-market-based measures;
(c) emergency level (‘emergency’): where there is exceptionally high gas demand, significant disruption of gas supply or other significant deterioration of the gas supply situation and all relevant market-based measures have been implemented but the gas supply is insufficient to meet the remaining gas demand so that non-market-based measures have to be additionally introduced with a view, in particular, to safeguarding gas supplies to protected customers in accordance with Article 6.

2. When the competent authority declares one of the crisis levels referred to in paragraph 1, it shall immediately inform the Energy Community Secretariat as well as the competent authorities of the Contracting Parties with which the Contracting Party of that competent authority is directly connected and provide them with all the necessary information, in particular with information on the action it intends to take <...>.

3. <...> 24

4. When the competent authority declares an emergency it shall follow the pre-defined action as set out in its emergency plan and shall immediately inform the Energy Community Secretariat <...> and the competent authorities of the Contracting Parties with which the Contracting Party of that competent authority is directly connected in particular of the action it intends to take. In duly justified exceptional circumstances, the competent authority may take action deviating from the emergency plan. The competent authority shall immediately inform the Energy Community Secretariat and <...> the competent authorities of the Contracting Parties with which the Contracting Party of that competent authority is directly connected, of any such action and shall provide a justification for the deviation.

5. The transmission system operator shall ensure that when an emergency is declared in a neighbouring Contracting Party, capacity at interconnection points to that Contracting Party, irrespective of whether firm or interruptible, and whether it has been booked before or during the emergency, has priority over competing capacity at exit points into storage facilities. The system user of the prioritised capacity shall promptly pay fair compensation to the system user of the firm capacity for the financial loss incurred as a result of prioritisation including a proportionate reimbursement for the cost of the firm capacity being interrupted. The process of determining and paying the compensation shall not affect the implementation of the priority rule.

6. The Contracting Parties and, in particular, the competent authorities shall ensure that:
(a) no measures are introduced which unduly restrict the flow of gas within the single market at any time;
(b) no measures are introduced that are likely seriously to endanger the gas supply situation in another Contracting Party; and
(c) cross-border access to infrastructure in accordance with Regulation (EC) No 715/2009, as adapted and adopted by Ministerial Council Decision 2011/02/MC-EnC 25, is maintained as far as techni-
cally and safely possible, in accordance with the emergency plan.

7. During an emergency and on reasonable grounds, upon a request of the relevant electricity or gas transmission system operator a **Contracting Party** may decide to prioritise the gas supply to certain critical gas-fired power plants over the gas supply to certain categories of protected customers, if the lack of gas supply to such critical gas-fired power plants either:

(a) could result in severe damage in the functioning of the electricity system; or

(b) would hamper the production and/or transportation of gas. **Contracting Parties** shall base any such measure on the risk assessment.

Critical gas-fired power plants as referred to in the first subparagraph shall be clearly identified together with the possible gas volumes that would be subject to such a measure and included in the regional chapters of the preventive action plans and emergency plans. Their identification shall be carried out in close cooperation with transmission system operators of the electricity system and the gas system of the **Contracting Party** concerned.

8. The **Energy Community Secretariat** shall verify, as soon as possible, but in any case within five days of receiving the information referred to in paragraph 2 from the competent authority, whether the declaration of an emergency is justified in accordance with point (c) of paragraph 1 and whether the measures taken follow as closely as possible the actions listed in the emergency plan and are not imposing an undue burden on natural gas undertakings and are in accordance with paragraph 6. The **Energy Community Secretariat** may, at the request of another competent authority, natural gas undertakings or on its own initiative, request the competent authority to modify the measures where they are contrary to the conditions referred to in the first sentence of this paragraph. The **Energy Community Secretariat** may also request the competent authority to declare an end to the emergency where it concludes that the declaration of an emergency is not or is no longer justified in accordance with point (c) of paragraph 1.

Within three days of notification of the **Energy Community Secretariat** request, the competent authority shall modify the measures and shall notify the **Energy Community Secretariat** thereof, or shall inform the **Energy Community Secretariat** of the reasons for which it disagrees with the request. In the latter case, the **Energy Community Secretariat** may, within three days of being informed, amend or withdraw its request or, in order to consider the issue, convene the competent authority or, where appropriate, the competent authorities concerned, and, where the **Energy Community Secretariat** considers it to be necessary, the **Security of Supply Coordination Group**. The **Energy Community Secretariat** shall set out its detailed reasons for requesting any modification to the action. The competent authority shall take full account of the position of the **Energy Community Secretariat**. Where the final decision of the competent authority diverges from the **Energy Community Secretariat** position, the competent authority shall provide the reasons underlying such decision.

9. When the competent authority declares an end to one of the crisis levels referred to in paragraph 1, it shall inform the **Energy Community Secretariat** as well as the competent authorities of the **Contracting Parties** with which the **Contracting Party** of that competent authority is directly connected.
Article 12

1. Where a **Contracting Party** has declared one of the crisis levels referred to in Article 11(1), the natural gas undertakings concerned shall make available, on a daily basis, in particular the following information to the competent authority of the **Contracting Party** concerned:

   (a) the daily gas demand and gas supply forecasts for the following three days, in million cubic meters per day (mcm/d);

   (b) the daily flow of gas at all cross-border entry and exit points as well as at all points connecting a production facility, a storage facility or an LNG terminal to the network, in million cubic meters per day (mcm/d);

   (c) the period, expressed in days, for which it is expected that supply of gas to protected customers can be ensured.

2. <…> 29

3. After an emergency, the competent authority referred to in paragraph 1 shall, as soon as possible and at the latest six weeks after the lifting of the emergency, provide the **Energy Community Secretariat** with a detailed assessment of the emergency and the effectiveness of the measures implemented, including an assessment of the economic impact of the emergency, the impact on the electricity sector and the assistance provided to or received from, <…> the **Contracting Parties**. Such assessment shall be made available to the **Security of Supply Coordination Group** and shall be reflected in the updates of the preventive action plans and the emergency plans.

   The **Energy Community Secretariat** shall analyse the assessments of the competent authorities and shall inform the **Contracting Parties, the Ministerial Council** and the **Security of Supply Coordination Group**, of the results of its analysis in an aggregated form.

4. In duly justified circumstances irrespective of a declaration of an emergency, the competent authority of the most affected **Contracting Party** may require natural gas undertakings to provide the information referred to in paragraph 1 or additional information necessary to assess the overall situation of the gas supply in the **Contracting Party** or other Member States and **Contracting Parties**, including contractual information, other than price information. The **Energy Community Secretariat** may request from the **Contracting Party**’s competent authorities the information provided by natural gas undertakings under this paragraph, provided that the same information has not been transmitted

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26 Not applicable according to Article 4(16) of Ministerial Council Decision 2021/15/MC-EnC
27 Not applicable according to Article 4(16) of Ministerial Council Decision 2021/15/MC-EnC
28 The text displayed here corresponds to Article 4(12) of Ministerial Council Decision 2021/15/MC-EnC
29 Not applicable according to Article 4(12)a of Ministerial Council Decision 2021/15/MC-EnC
already to the Energy Community Secretariat.

5. <…>³⁰

6. In order for the competent authorities and the Energy Community Secretariat to assess the security of gas supply situation at national <…> level, each natural gas undertaking shall notify:

(a) to the competent authority concerned the following details of gas supply contracts with a cross-border dimension and a duration of more than one year which it has concluded to procure gas:

(ii) contract duration;
(iii) yearly contracted volumes;
(iv) contracted maximum daily volumes in the event of an alert or emergency;
(v) contracted delivery points;
(vi) minimum daily and monthly gas volumes;
(vii) conditions for the suspension of gas deliveries.

(viii) an indication whether the contract individually or cumulatively with its contracts with the same supplier or its affiliates is equivalent to or exceeds the threshold of 28 % as referred to in point (b) of paragraph 6 in the most affected Contracting Party.

(b) to the competent authority of the most affected Contracting Party immediately after their conclusion or modification its gas supply contracts with a duration of more than one year, concluded or modified on or after entry into force of the Regulation that individually or cumulatively with its contracts with the same supplier or its affiliates is equivalent to 28 % or more of yearly gas consumption in Contracting Party to be calculated on the basis of the most recent available data. In addition, by 1 January 2024 natural gas undertakings shall notify the competent authority of all existing contracts fulfilling the same conditions. The notification obligation shall not cover price information and shall not apply to the modifications related only to the gas price. The notification obligation shall also apply to all commercial agreements that are relevant for the execution of the gas supply contract excluding price information.

The competent authority, shall notify the data listed in point (a) of the first subparagraph to the Energy Community Secretariat in an anonymised form. In the event of new contracts being concluded or changes being made to existing contracts, the whole set of data shall be notified by the end of September of the relevant year. Where the competent authority has doubts whether a given contract obtained under point (b) of the first subparagraph puts the security of gas supply of a Contracting Party, it shall notify the contract to Energy Community Secretariat.

7. In circumstances duly justified by the need to guarantee transparency of key gas supply contracts relevant to the security of gas supply, and where the competent authority of the most affected Contracting Party or the Energy Community Secretariat considers that a gas supply contract may jeopardise the security of gas supply of a Contracting Party <…> the competent authority of the Contracting Party or the Energy Community Secretariat may request the natural gas undertaking to provide the contract, excluding price information, for the assessment of its impact on the security of gas supply. The request shall be reasoned and may cover also details of any other commercial agreements that are relevant for the execution of the gas supply contract excluding price information.

³⁰ Not applicable according to Article 4(12)a of Ministerial Council Decision 2021/15/MC-EnC
The justification shall include the proportionality of the administrative burden involved.

8. The competent authorities that receive information on the basis of point (b) of paragraph 6 or paragraph 7 of this Article shall assess the received information for security of gas supply purposes within three months and submit the results of their assessment to the Energy Community Secretariat.

9. The competent authority shall take into account the information received under this Article in the preparation of the risk assessment, preventive action plan and emergency plan or their respective updates. The Energy Community Secretariat may adopt an opinion proposing to the competent authority to amend the risk assessments or plans on the basis of the information received under this Article. The competent authority concerned shall review the risk assessment and the plans concerned by the request in accordance with the procedure set out in Article 8(9).

10. By 1 July 2024 the Contracting Parties shall lay down the rules on penalties applicable to infringements by natural gas undertakings of paragraph 6 or 7 of this Article and shall take all measures necessary to ensure that they are implemented. The penalties provided for shall be effective, proportionate and dissuasive.

11. For the purpose of this Article, “the most affected Contracting Party” shall mean a Contracting Party where a contract party of a given contract has the most of its sales of gas or customers located.

12. All contracts or contractual information received on the basis of paragraphs 6 and 7 as well as the respective assessments by the competent authorities or the Energy Community Secretariat shall remain confidential. The competent authorities and the Energy Community Secretariat shall ensure full confidentiality.

Article 15
Professional secrecy

1. Any commercially sensitive information received, exchanged or transmitted pursuant to Article 14(4) to (8), and Article 18 excluding the results of the assessments referred to in Article 14(3) and (5) shall be confidential and subject to the conditions of professional secrecy laid down in this Article.

2. The obligation of professional secrecy shall apply to the following persons who receive confidential information in accordance with this Regulation:

(a) persons who work or who have worked for the Energy Community Secretariat;
(b) auditors and experts instructed by the Energy Community Secretariat;
(c) persons who work or who have worked for the competent authorities and the national regulatory authorities or for other relevant authorities;
(d) auditors and experts instructed by competent authorities and national regulatory authorities or by other relevant authorities.

3. Without prejudice to cases covered by criminal law, the other provisions of this Regulation or other relevant Energy Community or national law, confidential information received by the persons referred to in paragraph 2 in the course of their duties may not be divulged to any other person or authority, except in summary or aggregate form such that an individual market participant or market place cannot be identified.
4. Without prejudice to cases covered by criminal law, the Energy Community Secretariat, the competent authorities and the national regulatory authorities, bodies or persons which receive confidential information pursuant to this Regulation may use confidential information only in the performance of their duties and for the exercise of their functions. Other authorities, bodies or persons may use that information for the purpose for which it was provided to them or in the context of administrative or judicial proceedings specifically related to the exercise of their functions.

Article 16

<...>31

Article 17

Monitoring by the Energy Community Secretariat32

The Energy Community Secretariat shall carry out continuous monitoring of security of gas supply measures in the Contracting Parties and report regularly to the Security of Supply Coordination Group, the Permanent High Level Group and the Ministerial Council.

<...>

Article 18

Notifications

The risk assessment, the preventive action plans, the emergency plans and all other documents shall be notified to the Energy Community Secretariat electronically.

All correspondence in connection with a notification shall be transmitted electronically.

Article 19

<...>33

Article 20

Derogation34

1. This Regulation shall not apply to Kosovo*35 and Montenegro for as long as no gas is supplied on their respective territories. For Kosovo* and Montenegro the obligations laid down in, and the choices those Contracting Parties are entitled to make pursuant to, the following provisions shall

31 Not applicable according to Article 4(16) of Ministerial Council Decision 2021/15/MC-EnC
32 The text displayed here corresponds to Article 4(14) of Ministerial Council Decision 2021/15/MC-EnC
33 Not applicable according to Article 4(16) of Ministerial Council Decision 2021/15/MC-EnC
34 The text displayed here corresponds to Article 4(15) of Ministerial Council Decision 2021/15/MC-EnC
35 Through this Regulation, this designation is without prejudice to position on status, and is in line with UNSCR 1244 and the ICJ Opinion on the Kosovo
be fulfilled and made within the specified time calculated from the date when gas is first supplied on their respective territories:

(a) for point 5 of Article 2, Article 3(2), Article 7(5) and point (a) of Article 14(6): 12 months;
(b) for Article 6(1): 18 months;
(c) for Article 8(7): 24 months;
(d) for Article 5(4): 36 months;
(e) for Article 5(1): 48 months.

In order to fulfil the obligation contained in Article 5(1), Kosovo* and Montenegro may apply the provisions contained in Article 5(2), including by using non-market-based demand-side measures.

2. <...>
3. <...>.

Article 21

Repeal


Article 22

Entry into force

This Regulation shall enter into force on the day of its adoption.

It is addressed to the Contracting Parties and the institutions of the Energy Community.

<...>

Article 23

Review

The functioning of the rules and procedures established by this Regulation shall be reviewed by the Energy Community Secretariat by 2024. Taking into account the review, the European Commission may propose amendments including steps further integrating the Contracting Parties into the security of supply and solidarity mechanisms applicable within the European Union.

36 The text displayed here corresponds to Article 5 of Ministerial Council Decision 2021/15/MC-EnC
37 The text displayed here corresponds to Article 6 of Ministerial Council Decision 2021/15/MC-EnC
38 The text displayed here corresponds to Article 4(17) of Ministerial Council Decision 2021/15/MC-EnC
ANNEX I

(...)

39 Not applicable according to Article 4(23) of Ministerial Council Decision 2021/15/MC-EnC
1. Definition of the N – 1 formula

The N – 1 formula describes the ability of the technical capacity of the gas infrastructure to satisfy total gas demand in the calculated area in the event of disruption of the single largest gas infrastructure during a day of exceptionally high gas demand occurring with a statistical probability of once in 20 years.

Gas infrastructure shall cover the gas transmission network including interconnections, as well as production, LNG and storage facilities connected to the calculated area.

The technical capacity of all remaining available gas infrastructure in the event of disruption of the single largest gas infrastructure shall be at least equal to the sum of the total daily gas demand of the calculated area during a day of exceptionally high gas demand occurring with a statistical probability of once in 20 years.

The results of the N – 1 formula, as calculated below, shall be at least equal to 100 %.

2. Calculation method of the N – 1 formula

The parameters used for the calculation shall be clearly described and justified.

For the calculation of the $\text{EP}_\text{m}$, a detailed list of the entry points and their individual capacity shall be provided.

3. Definitions of the parameters of the N – 1 formula

‘Calculated area’ means a geographical area for which the N – 1 formula is calculated, as determined by the competent authority.

Demand-side definition

‘$D_{\text{max}}$’ means the total daily gas demand (in mcm/d) of the calculated area during a day of exceptionally high gas demand occurring with a statistical probability of once in 20 years.

Supply-side definitions

‘$\text{EP}_\text{m}$’: technical capacity of entry points (in mcm/d), other than production, LNG and storage facilities covered by $\text{P}_\text{m}$, $\text{LNG}_\text{m}$ and $\text{S}_\text{m}$, means the sum of the technical capacity of all border entry points capable of supplying gas to the calculated area.

‘$\text{P}_\text{m}$’: maximal technical production capability (in mcm/d) means the sum of the maximal technical daily production capability of all gas production facilities which can be delivered to the entry points in the calculated area.

‘$\text{S}_\text{m}$’: maximal technical storage deliverability (in mcm/d) means the sum of the maximal technical daily withdrawal capacity of all storage facilities which can be delivered to the entry points of the...
calculated area, taking into account their respective physical characteristics.

‘LNGm’: maximal technical LNG facility capacity (in mcm/d) means the sum of the maximal technical daily send-out capacities at all LNG facilities in the calculated area, taking into account critical elements like offloading, ancillary services, temporary storage and re-gasification of LNG as well as technical send-out capacity to the system.

‘Im’ means the technical capacity of the single largest gas infrastructure (in mcm/d) with the highest capacity to supply the calculated area. When several gas infrastructures are connected to a common upstream or downstream gas infrastructure and cannot be separately operated, they shall be considered as one single gas infrastructure.

4. Calculation of the N – 1 formula using demand-side measures

**Demand-side definition**

‘Deff’ means the part (in mcm/d) of Dmax that in the case of a disruption of gas supply can be sufficiently and timely covered with market-based demand-side measures in accordance with point (c) of Article 9(1) and Article 5(2).

5. <...>40

\[
N - 1 \% = \frac{EPm + Pm + Sm + LNGm - Im}{Dmax} \times 100, \quad N - 1 \geq 100\%
\]

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40 Not applicable according to Article 4(18) of Ministerial Council Decision 2021/15/MC-EnC
1. For the execution of the provisions set out in this Annex the national regulatory authority may act as the competent authority if so decided by the Contracting Party.

Interconnectors in operation on the date when this Regulation has entered into force between Serbia and Bosnia and Herzegovina are exempted from obligations to enable permanent physical capacity to transport gas in both directions for permanent bi-directional capacity concerning the reverse direction ('physical reverse flow capacity') according to this Regulation.

2. To enable or enhance bi-directional capacity on an interconnection or to obtain or prolong an exemption from that obligation, transmission system operators on both sides of the interconnection shall submit to their competent authorities ('competent authorities concerned') and to their regulatory authorities ('regulatory authorities concerned') after consulting with all transmission system operators potentially concerned:

(a) a proposal to enable permanent physical capacity to transport gas in both directions for permanent bi-directional capacity concerning the reverse direction ('physical reverse flow capacity'); or
(b) a request for an exemption from the obligation to enable bi-directional capacity.

The transmission system operators shall endeavour to submit a joint proposal or request for exemption. In the case of a proposal to enable bi-directional capacity, the transmission system operators may make a substantiated proposal for a cross-border cost allocation. Such submission shall take place no later than 1 February 2024 for all interconnections that existed on 25 November 2021, and after completing the feasibility study phase but before the start of detailed technical design phase for new interconnections.

3. Upon receipt of the proposal or the exemption request the competent authorities concerned shall without delay consult the competent authorities and, where they are not the competent authorities, the national regulatory authorities, of the Contracting Party that could, in accordance with the risk assessment, benefit from the reverse flow capacity, the Energy Community Regulatory Board and the Energy Community Secretariat on the proposal or the exemption request. The authorities consulted may issue an opinion within four months of receipt of the consultation request.

4. The regulatory authorities concerned shall within six months upon receipt of the joint proposal, pursuant to Article 5(6) and (7), after consulting the project promoters concerned, take coordinated decisions on the cross-border allocation of investment costs to be borne by each transmission system operator of the project. Where the regulatory authorities concerned have not reached an agreement within that deadline, they shall inform the competent authorities concerned without delay.

5. The competent authorities concerned shall on the basis of the risk assessment, the information listed in Article 5(5) of this Regulation, the opinions received following the consultation in accordance with point 3 of this Annex and taking into account the security of gas supply and the contribution to the single gas market take a coordinated decision. That coordinated decision shall be taken within

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41 The text displayed here corresponds to Article 4(19) of Ministerial Council Decision 2021/15/MC-EnC
two months. The period of two months shall start to run after the four-month period allowed for the opinions referred to under point 3 of this Annex, unless all opinions have been received before, or after the six-month period referred to in point 4 of this Annex for regulatory authorities concerned to adopt a coordinated decision. The coordinated decision shall:

(a) accept the proposal for bi-directional capacity. Such decision shall contain a cost benefit analysis, a timeline for implementation and the arrangements for its subsequent use and be accompanied by the coordinated decision on the cross-border cost allocation referred to in point 4 and prepared by the regulatory authorities concerned;

(b) grant an exemption or prolong a temporary exemption for a maximum period of four years, if the cost-benefit analysis included in the decision shows that the reverse flow capacity would not enhance the security of gas supply of any relevant Contracting Party or if the investment costs would significantly outweigh the prospective benefits for the security of gas supply; or require the transmission system operators to amend and resubmit their proposal or exemption request within a maximum period of four months.

6. The competent authorities concerned shall submit the coordinated decision without delay to the competent authorities and national regulatory authorities who have submitted an opinion in accordance with point 3, the regulatory authorities concerned, the Energy Community Regulatory Board and the Energy Community Secretariat.

7. Within two months of receipt of the coordinated decision, the competent authorities referred to in point 6 may present their objections to the coordinated decision and submit them to the competent authorities concerned that adopted it, the Energy Community Regulatory Board and the Energy Community Secretariat. The objections shall be limited to facts and assessment, in particular cross-border cost allocation that was not subject of consultation in accordance with point 3.

8. Within three months of receipt of the coordinated decision in accordance with point 6, the Energy Community Regulatory Board shall issue an opinion on the elements of the coordinated decision taking into account any possible objection and submit the opinion to all competent authorities concerned and the competent authorities referred to in point 6 and to the Energy Community Secretariat.

9. Within four months of receipt of the opinion issued by the Energy Community Regulatory Board pursuant to point 8 the Energy Community Secretariat may adopt an opinion requesting modifications of the coordinated decision. Any such opinion of the Energy Community Secretariat shall be taken on the basis of: the criteria set out in point 5, the reasons for the decision of the authorities concerned and the opinion of the Energy Community Regulatory Board. The competent authorities concerned shall take utmost account of the opinion of the Energy Community Secretariat by amending their decision within a period of four weeks.

10. If the competent authorities concerned were not able to adopt a coordinated decision within the deadline set out in point 5 or if the regulatory authorities concerned could not reach an agreement on the cost allocation within the deadline set out in point 4, the competent authorities concerned shall inform the Energy Community Regulatory Board and the Energy Community Secretariat at the latest on the day of the expiry of the deadline. Within four months of receipt of that information, the Energy Community Secretariat after possible consultation with the Energy Community Regulatory Board, shall issue an opinion covering all elements of a coordinated decision listed in
point 5 with the exception of a cross-border cost allocation and submit that opinion to the competent authorities concerned and the Energy Community Regulatory Board.

11. If the Energy Community Secretariat’s opinion pursuant to point 10 of this Annex, requires bi-directional capacity, the Energy Community Regulatory Board shall adopt a decision covering the cross-border cost allocation in line with Article 5(7) of this Regulation within three months of receipt of the Energy Community Secretariat’s opinion. Before taking such a decision, the Energy Community Regulatory Board shall consult the regulatory authorities concerned and the transmission system operators. The three-month period may be extended by an additional period of two months where the Energy Community Regulatory Board has to request additional information. The additional period shall begin on the day following receipt of the complete information.

12. The Energy Community Regulatory Board and the Energy Community Secretariat shall consult each other before taking decisions or issuing opinions in accordance with the previous paragraphs. These authorities, as well as the competent authorities, the national regulatory authorities and the transmission system operators shall preserve the confidentiality of commercially sensitive information.

13. <...>42

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42 Not applicable according to Article 4(19)h of Ministerial Council Decision 2021/15/MC-EnC
ANNEX IV

<...>43

43 Not applicable according to Article 4(23) of Ministerial Council Decision 2021/15/MC-EnC
ANNEX V

Template for the national risk assessment

General information
Name of the competent authority responsible for the preparation of the present risk assessment.44

1. Description of the system

1.1.

Provide a brief description of the gas system of the Contracting Party covering:
(a) the main gas consumption figures: annual final gas consumption (bcm) and breakdown by type of customers, peak demand (mcm/d);
(b) a description of the functioning of the gas system at national level, including infrastructure (to the extent not covered by point 1.1(b)). If applicable, include L-gas system;
(c) the identification of the key infrastructure relevant for the security of gas supply;
(d) a breakdown, to the extent possible, at national level of gas import sources per country of origin;
(e) a description of the role of storage and include:
   (i) the storage capacity (total and working) compared to heating season demand;
   (ii) the maximal daily withdrawal capacity at different filling levels (ideally with full storages and end-of-season levels);
(f) a description of the role of domestic production and include:
   (i) the volume of production with regard to the annual final gas consumption;
   (ii) the maximal daily production capacity;
(g) a description of the role of gas in the electricity production (e.g. importance, role as a back-up for renewables), including gas-fired generating capacity (total (MWe) and as percentage of the total generating capacity) and cogeneration (total (MWe) and as percentage of the total generating capacity).

2. Infrastructure standard (Article 5)

Describe how the infrastructure standard is complied with, including the main values used for the N – 1 formula and alternative options for its compliance (with directly connected Contracting Parties, demand-side measures) and the existing bidirectional capacities, as follows:
(a) N – 1 formula
   (i) the identification of the single largest gas infrastructure;
   (ii) the calculation of the N – 1 formula at national level;

44 Where this task has been delegated by the competent authority, indicate the name of the body(ies) responsible for the presentation of the present risk assessment on its behalf
45 Not applicable according to Article 4(20)a of Ministerial Council Decision 2021/15/MC-EnC
(iii) a description of the values used for all elements in the N – 1 formula, including intermediate values used for their calculation (e.g. for EP_m indicate the capacity of all entry points considered under this parameter);
(iv) an indication of the methodologies used, if any, for the calculation of parameters in the N – 1 formula (e.g. Dmax) (use annexes for detailed explanations);
(v) an explanation of the results of the calculation of the N – 1 formula considering the level of storages at 30 % and 100 % of the maximum working volume;
(vi) an explanation of the main results of the simulation of the N – 1 formula using a hydraulic model;
(vii) if so decided by the Contracting Party, a calculation of the N – 1 formula using demand-side measures:
- calculation of the N – 1 formula in accordance with point 2 of Annex II,
- description of the values used for all elements in the N – 1 formula, including intermediate figures used for the calculation (if different to the figures described under point 2(a)(iii)),
- indicate the methodologies used, if any, for the calculation of parameters in the N – 1 formula (e.g. Dmax) (use annexes for detailed explanations),
explain the market-based demand-side measures adopted/to be adopted to compensate a disruption of gas supply and its expected impact (Deff);
(viii) <…>46
(b) bi-directional capacity
(i) indicate the interconnection points equipped with bidirectional capacity and the maximal capacity of bi-directional flows;
(ii) indicate the arrangements governing the use of the reverse flow capacity (e.g. interruptible capacity);
(iii) indicate interconnection points where an exemption has been granted in accordance with Article 5(4), the duration of the exemption and the grounds on which it was granted.

3. Identification of risks
Describe the risk factors which could have negative impact on the security of gas supply in the Contracting Party, their likelihood and consequences.
Non-exhaustive list of types of risk factors that have to be included in the assessment only if applicable according to the competent authority:
(a) political
- gas disruption from third countries because of different reasons,
- political unrest (either in country of origin or in transit country),
- war/civil war (either in country of origin or in transit country),
- terrorism;

46 Not applicable according to Article 4(20)b of Ministerial Council Decision 2021/15/MC-EnC
(b) technological
- explosion/fires,
- fires (internal to a given facility),
- leakages,
- lack of adequate maintenance,
- equipment malfunction (failure to start, failure during working time, etc.),
- lack of electricity (or other energy source),
- ICT failure (hardware or software failure, internet, SCADA problems, etc.),
- cyber-attack,
- impact due to excavation works (digging, piling), ground works, etc.;

(c) commercial /market / financial
- agreements with third-country suppliers,
- commercial dispute,
- control of infrastructure relevant for the security of gas supply by third-country entities, which may imply, among others, risks of underinvestment, undermining diversification or non-respect of Energy Community law,
- price volatility,
- underinvestment,
- sudden, unexpected peak demand,
- other risks which could lead to structural underperformance;

(d) social
- strikes (in different related sectors, such as the gas sector, ports, transport, etc.),
- sabotage,
- vandalism,
- theft;

(e) natural
- earthquakes,
- landslides,
- floods (heavy rain, river),
- storms (sea),
- avalanches,
- extreme weather conditions,
- fires (external to the facility, like nearby forests, grassland, etc.).
Analysis
(a) identify the relevant risk factors for the Contracting Party, including their likelihood and impact;
(b) describe the criteria used to determine whether a system is exposed to high/unacceptable risks;
(c) set a list of relevant risk scenarios in accordance with the risk factors and their likelihood and describe how the selection was made.

4. Risk analysis and assessment
Analyse the set of relevant risk scenarios identified under point 3. In the simulation of risk scenarios include the existing security of gas supply measures, such as the infrastructure standard calculated using the N – 1 formula as set out in point 2 of Annex II, and the gas supply standard. Per risk scenario:
(a) describe in detail the risk scenario, including all assumptions and, if applicable, the underlying methodologies for their calculation;
(b) describe in detail the results of the simulation carried out, including a quantification of the impact (e.g. volumes of unserved gas, the socioeconomic impact, the impact on district heating, the impact on electricity generation).
5. <...> 47

47 Not applicable according to Article 4(20)c of Ministerial Council Decision 2021/15/MC-EnC
ANNEX VI

Template for preventive action plan

General information
- <...>
- Name of the competent authority responsible for the preparation of the plan

1. Description of the system
1.1. <...>
1.2. Provide a brief description of the gas system per Contracting Party, covering:
(a) the main gas consumption figures: annual final gas consumption (bcm) and breakdown by type of customers, peak demand (mcm/d);
(b) a description of the functioning of the gas system at national level, including infrastructure (to the extent not covered by point 1.1(b));
(c) the identification of the key infrastructure relevant for the security of supply;
(d) a breakdown, to the extent possible, at national level of gas import sources per country of origin;
(e) a description of the role of storage in the Contracting Party and include:
the storage capacity (total and working) compared to heating season demand;
the maximal daily withdrawal capacity at different filling levels (ideally with full storages and end-of-season levels);
(f) a description of the role of domestic production and include:
the volume of production with regard to the annual final gas consumption;
the maximal daily production capacity;
(g) a description of the role of gas in the electricity production (e.g. importance, role as a back-up for renewables), including gas-fired generating capacity (total (MWe) and as percentage of the total generating capacity) and cogeneration (total (MWe) and as percentage of the total generating capacity);
(h) a description of the role of energy efficiency measures and their effect on annual final gas consumption.

2. Summary of the risk assessment
Describe briefly the results of the <...> national risk assessment carried out in accordance with Article 7, including:
(a) a list of the scenarios assessed and a brief description of the assumptions applied for each one as well as the risks/shortcomings identified;

48 The text displayed here corresponds to Article 4(21) of Ministerial Council Decision 2021/15/MC-EnC
49 When this task has been delegated by any competent authority, indicate the name of the body/(ies) responsible for the preparation of this plan on its behalf
(b) the main conclusions of the risk assessment.

3. Infrastructure standard (Article 5)

Describe how the infrastructure standard is complied with, including the main values used for the N – 1 formula and alternative options for its compliance (with neighbouring Contracting Parties, demand-side measures) and the existing bidirectional capacities, as follows:

3.1. <...>

3.2. National level

(a) N – 1 formula

(i) the identification of the single largest gas infrastructure;

(ii) the calculation of the N – 1 formula at national level;

(iii) a description of the values used for all elements in the N – 1 formula, including intermediate values used for the calculation (e.g. for EPm indicate the capacity of all entry points considered under this parameter);

(iv) an indication of the methodologies used, if any, for the calculation of parameters in the N – 1 formula (e.g. Dmax) (use annexes for detailed explanations);

(v) if so decided by the Contracting Party, calculation of the N – 1 formula using demand-side measures:

- the calculation of the N – 1 formula in accordance with point 2 of Annex II,

- a description of the values used for all elements in the N – 1 formula, including intermediate figures used for the calculation (if different to the figures described under point 3(a)(iii) of this Annex),

- an indication of the methodologies used, if any, for the calculation of parameters in the N – 1 formula (e.g. Dmax) (use annexes for detailed explanations),

- an explanation of the market-based demand-side measures adopted/to be adopted to compensate a disruption of gas supply and its expected impact (Deff);

(vi) <...>

(b) bi-directional capacity

(i) indicate the interconnection points equipped with bidirectional capacity and the maximal capacity of bi-directional flows;

(ii) indicate the arrangements governing the use of the reverse flow capacity (e.g. interruptible capacity);

(iii) indicate interconnection points where an exemption has been granted in accordance with Article 5(4), the duration of the exemption and the grounds on which it was granted.

4. Compliance with the supply standard (Article 6)

Describe the measures adopted in order to comply with the supply standard as well as with any increased supply standard or additional obligation imposed for reasons of security of gas supply:

(a) definition of protected customers applied, including categories of customers covered and their annual gas consumption (per category, net value and percentage of the national annual final gas consumption);
(b) gas volumes needed to comply with the supply standard in accordance with the scenarios described in the first subparagraph of Article 6(1);
(c) capacity needed to comply with the supply standard in accordance with the scenarios described in the first subparagraph of Article 6(1);
(d) measure(s) in place to comply with the supply standard:
   (i) a description of the measure(s);
   (ii) addressees;
   (iii) where it exists, describe any ex ante monitoring system for the compliance with the supply standard;
   (iv) sanctions regime, if applicable;
   (v) describe, per measure:
       - the economic impact, effectiveness and efficiency of the measure,
       - the impact of the measure on the environment,
       - impact of the measures on consumer,
   (vi) where non-market-based measures are applied (per measure):
       - justify why the measure is necessary (i.e. why security of supply cannot be achieved via market-based measures alone),
       - justify why the measure is proportionate (i.e. why the non-market-based measure is the least restrictive means to achieve the intended effect),
       - provide an analysis of the impact of such measure:
         (1) on other Contracting Parties’ security of supply;
         (2) on the national market;
         (3) on the single market;
   (vii) where measures introduced on or after 30th November 2021 please provide a short summary of the impact assessment or a link to the public impact assessment of the measure(s) carried out in accordance with Article 9(4);
(e) if applicable, describe any increased supply standard or additional obligation imposed for reasons of security of gas supply:
   (i) a description of the measure(s);
   (ii) the mechanism to reduce it to usual values in a spirit of solidarity <...>;
   (iii) if applicable, describe any new increased supply standard or additional obligation imposed for reasons of security of gas supply adopted on or after 30th November 2021;
   (iv) addressees;
   (v) affected gas volumes and capacities;
   (vi) indicate how that measure complies with the conditions laid down in Article 6(2).
5. Preventive measures

Describe the preventive measures in place or to be adopted:

(a) describe each of the preventive measures adopted per identified risk in accordance with the risk assessment, including a description of:

(i) their national or regional dimension;
(ii) their economic impact, effectiveness and efficiency;
(iii) their impact on customers. Where appropriate, include:
- measures to enhance interconnections between neighbouring Contracting Parties,
- measures to diversify gas routes and sources of supply,
- measures to protect key infrastructure relevant for the security of supply in relation to control by third- country entities (including, where relevant, general or sector-specific investment screening laws, special rights for certain shareholders, etc.);

(b) <…>

(c) where non-market-based measures are applied (per measure):

(i) justify why the measure is necessary (i.e. why the security of supply cannot be achieved via market-based measures alone);
(ii) justify why the measure is proportionate (i.e. why the non-market-based measure is the least restrictive means to achieve the intended effect);
(iii) provide an analysis of the impact of such measure:
- justify why the measure is necessary (i.e. why the security of supply cannot be achieved via market- based measures alone),
- justify why the measure is proportionate (i.e. why the non-market-based measure is the least restrictive means to achieve the intended effect),
- provide an analysis of the impact of such measure:
  (1) on other Contracting Parties’ security of supply;
  (2) on the national market;
  (3) on the single market;
  (4) explain the extent to which efficiency measures, including on the demand side, have been considered to increase the security of supply;
  (5) explain the extent to which renewable energy sources have been considered to increase the security of supply.

6. Other measures and obligations (e.g. safety operation of the system)

Describe other measures and obligations that have been imposed on natural gas undertakings and other relevant bodies likely to have an impact on the security of gas supply, such as obligations for the safe operation of the system, including who would be affected by that obligation as well as the gas volumes covered. Explain precisely when and how those measures would apply.
7. Infrastructure projects
(a) describe future infrastructure projects, including Projects of Energy Community Interests, including an estimated timing for their deployment, capacities and estimated impact on the security of gas supply;
b) <...>

8. Public service obligations related to the security of supply
Indicate the existing public service obligations related to the security of supply and briefly describe them (use annexes for more detailed information). Explain clearly who has to comply with such obligations and how. If applicable, describe how and when those public service obligations would be triggered.

9. Stakeholder consultations
In accordance with Article 8(2) of this Regulation, describe the mechanism used for and the results of the consultations carried out, for the development of the plan as well as the emergency plan, with:
(a) gas undertakings;
(b) relevant organisations representing the interests of households;
(c) relevant organisations representing the interests of industrial gas customers, including electricity producers;
(d) national regulatory authority.

10. <...>

11.1. <...>
11.2. Mechanisms developed for cooperation
Describe the mechanisms used for the cooperation among the Contracting Parties <...>, including for developing cross-border measures in the preventive action plan and the emergency plan.
<...>
11.3. <...>
ANNEX VII

Template for emergency plan

General information
Name of the competent authority responsible for the preparation of the present plan

1. Definition of crisis levels
(a) indicate the body responsible for the declaration of each crisis level and the procedures to follow in each case for such declarations;
(b) where they exist, include here indicators or parameters used to consider whether an event may result in a significant deterioration of the supply situation and to decide upon the declaration of a certain crisis level.

2. Measures to be adopted per crisis level
2.1. Early Warning
Describe the measures to be applied at this stage, indicating, per measure:
   (i) a brief description of the measure and main actors involved;
   (ii) describe the procedure to follow, if applicable;
   (iii) indicate the expected contribution of the measure to cope with the impact of any event or prepare ahead of its appearance;
   (iv) describe the flows of information among the actors involved.

2.2. Alert Level
(a) describe the measures to be applied at this stage, indicating, per measure:
   (i) a brief description of the measure and main actors involved;
   (ii) describe the procedure to follow, if applicable;
   (iii) indicate the expected contribution of the measure to cope with the situation at alert level;
   (iv) describe the flows of information among the actors involved;
(b) describe the reporting obligations imposed on natural gas undertakings at alert level.

2.3. Emergency Level
(a) establish a list of predefined actions on the supply and demand side to make gas available in the event of an emergency, including commercial agreements between the parties involved in such actions and the compensation mechanisms for natural gas undertakings where appropriate;
(b) describe the market-based measures to be applied at this stage, indicating, per measure:
   (i) a brief description of the measure and main actors involved;

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50 Where this task has been delegated by any competent authority, please indicate the name of the body(ies) responsible for the preparation of this plan on its behalf
(ii) describe the flows of information among the actors involved;

(c) describe the non-market-based measures planned or to be implemented for the emergency level, indicating, per measure:

(i) a brief description of the measure and main actors involved;
(ii) provide an assessment of the necessity of such measure in order to cope with a crisis, including the degree of its use;
(iii) describe in detail the procedure to implement the measure (e.g. what would trigger the introduction of this measure, who would take the decision);
(iv) indicate the expected contribution of the measure to mitigate the situation at emergency level as a complement to market-based measures;
(v) assess other effects of the measure;
(vi) justify the compliance of the measure with the conditions laid down in Article 11(6);
(vii) describe the flows of information among the actors involved;

(d) describe reporting obligations imposed on natural gas undertakings.

3. Specific measures for the electricity and district heating

(a) district heating

(i) briefly indicate the likely impact of a disruption of gas supply in the district heating sector;
(ii) indicate measures and actions to be taken to mitigate the potential impact of a disruption of gas supply on district heating. Alternatively, indicate why the adoption of specific measures is not appropriate;

(b) supply of electricity generated from gas

(i) briefly indicate the likely impact of a disruption of gas supply in the electricity sector;
(ii) indicate measures and actions to be taken to mitigate the potential impact of a disruption of gas supply on the electricity sector. Alternatively, indicate why the adoption of specific measures is not appropriate;
(iii) indicate the mechanisms/existing provisions to ensure appropriate coordination, including exchange of information, between main actors in the gas and electricity sectors, in particular transmission system operators at different crisis levels.

4. Crisis manager or team

Indicate who the crisis manager is and define its role.

5. Roles and responsibilities of different actors

(a) per crisis level, define the roles and responsibilities, including interactions with the competent authorities and, where appropriate, with the national regulatory authority, of:

(i) natural gas undertakings;
(ii) industrial customers;
(iii) relevant electricity producers;
(b) per crisis level, define the role and responsibilities of the competent authorities and the bodies to which tasks have been delegated.

6. Measures regarding undue consumption by customers who are not protected customers
Describe measures in place to prevent to the extent possible and without endangering the safe and reliable operation of the gas system or creating unsafe situations, the consumption by customers who are not protected customers of gas supply intended for protected customers during an emergency. Indicate the nature of the measure (administrative, technical, etc.), main actors and the procedures to follow.

7. Emergency tests
(a) indicate the calendar for the real time response simulations of emergency situations;
(b) indicate actors involved, procedures and concrete high and medium impact scenarios simulated.
For the updates of the emergency plan: describe briefly the tests carried out since the last emergency plan was presented and the main results. Indicate which measures have been adopted as a result of those tests.

8. <…>51

51 Not applicable according to Article 4(22) of Ministerial Council Decision 2021/15/MC-EnC
ANNEX VIII

List of non-market-based security of gas supply measures

In developing the preventive action plan and the emergency plan the competent authority shall consider the contribution of the following indicative and non-exhaustive list of measures only in the event of an emergency:

(a) supply-side measures:
- use of strategic gas storage,
- enforced use of stocks of alternative fuels (e.g. in accordance with Council Directive 2009/119/EC\(^{52}\)),
- enforced use of electricity generated from sources other than gas,
- enforced increase of gas production levels,
- enforced storage withdrawal;

(b) demand-side measures:
- various steps of compulsory demand reduction including:
  - enforced fuel switching,
  - enforced utilisation of interruptible contracts, where not fully utilised as part of market-based measures,
  - enforced firm load shedding.