

Process in case of energy scarcity

Users Group
25/09/2014



What will happen in extreme situation of energy shortage? Legal context



Grid Code A.R. 19-12-2002 - Art 312

<p>HOOFDSTUK XVI - <i>Reddings- en heropbouwcodes</i></p> <p><i>Afdeling I - Reddingscode</i></p> <p>Art. 312. § 1. De netbeheerder stelt de reddingscode op die, in voorkomend geval, in het aansluitingscontract, het toegangcontract, het contract voor ondersteunende diensten of het contract voor de coördinatie van de inschakeling van de productie-eenheden wordt opgenomen. Hij deelt de reddingscode en zijn wijzigingen aan de commissie mee.</p>	<p>CHAPITRE XVI - <i>Codes de sauvegarde et de reconstitution</i></p> <p><i>Section I^{re} - Code de sauvegarde</i></p> <p>Art. 312. § 1^{er}. Le gestionnaire du réseau établit le code de sauvegarde qui est repris, le cas échéant, dans le contrat de raccordement, le contrat d'accès, le contrat de services auxiliaires ou le contrat de coordination d'appel des unités de production. Il notifie le code de sauvegarde, ainsi que ses modifications, à la commission.</p>
----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

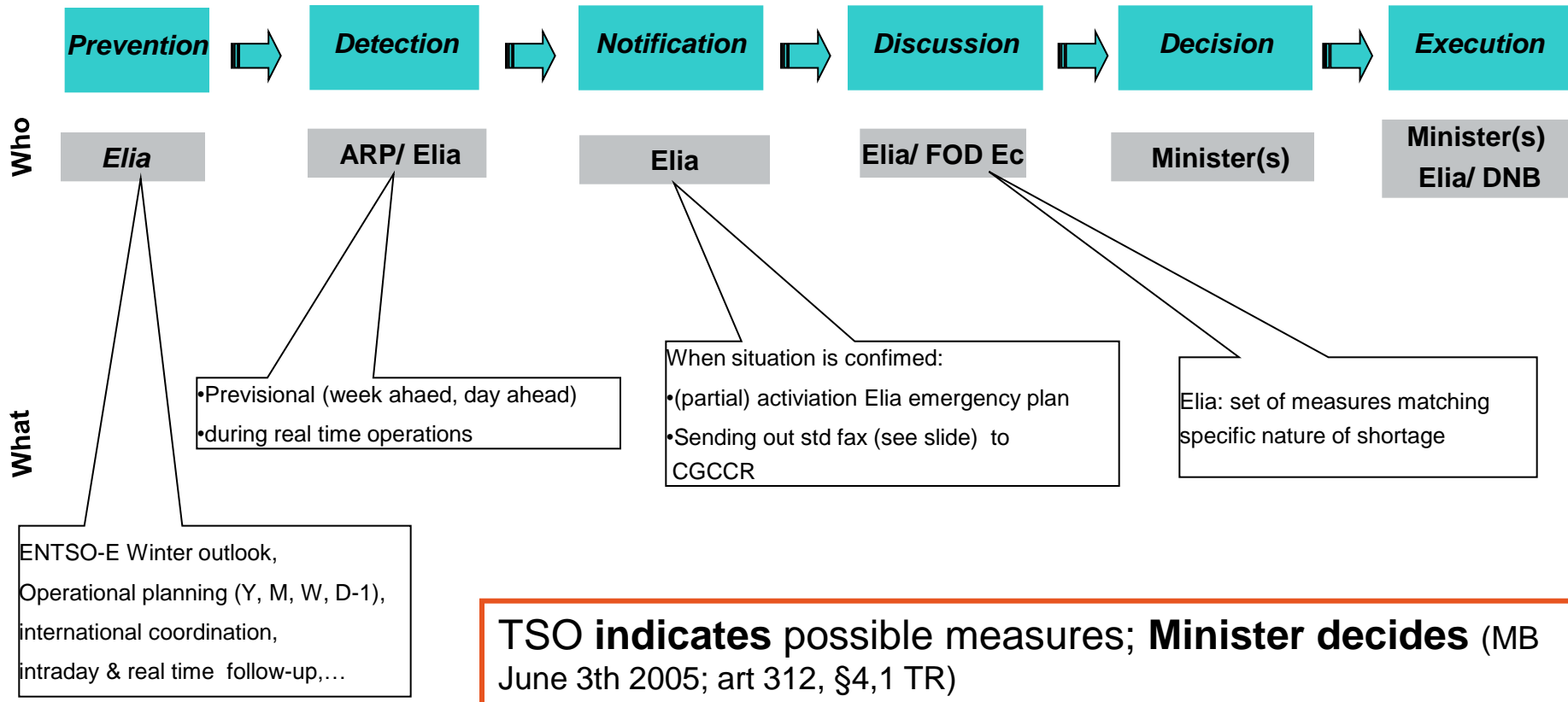
Ministerial Decree M.B. 03-06-2005

<p>SERVICE PUBLIC FEDERAL ECONOMIE, P.M.E., CLASSES MOYENNES ET ENERGIE</p> <p>F. 2005 — 1990 [C - 2005/11264]</p> <p>3 JUNI 2005. — Arrêté ministériel établissant le plan de délestage du réseau de transport d'électricité</p>	<p>FEDERALE OVERHEIDSDIENST ECONOMIE, K.M.O., MIDDENSTAND EN ENERGIE</p> <p>N. 2005 — 1990 [C - 2005/11264]</p> <p>3 JUNI 2005. — Ministerieel besluit tot vaststelling van het afschakelplan van het transmissienet van elektriciteit</p>
-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

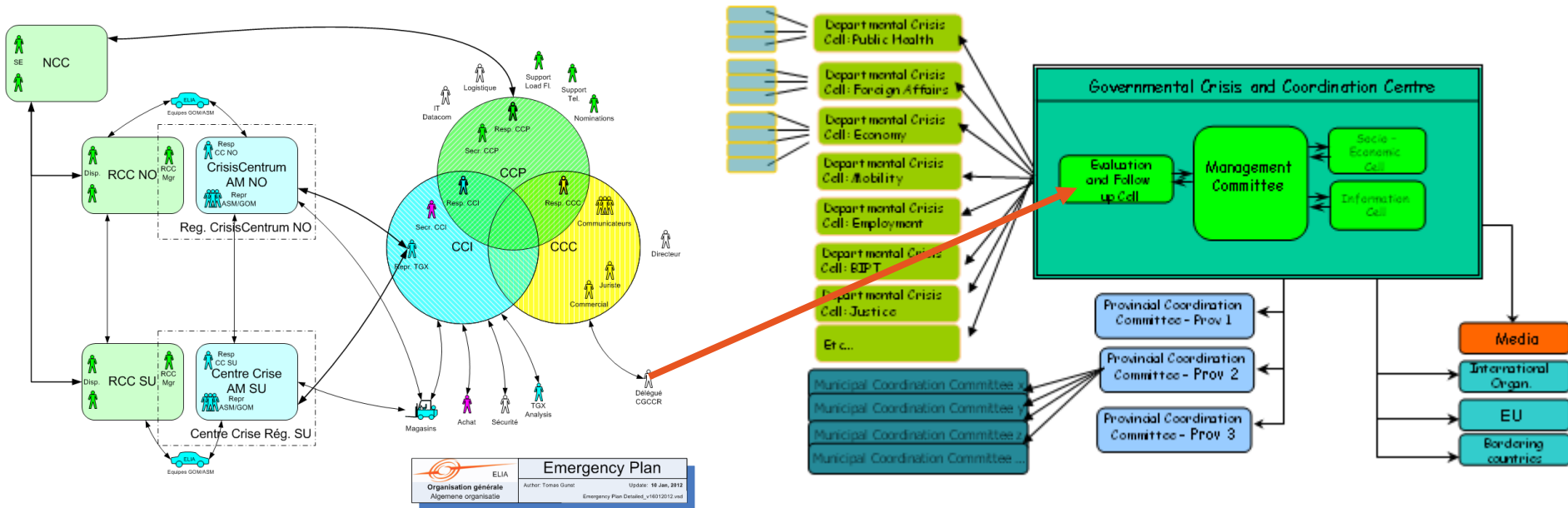
Grid Code A.R. 19-12-2002 - Art 314

<p><i>Afdeling II - Heropbouwcode</i></p> <p>Art.314. § 1. De netbeheerder stelt de heropbouwcode op, na raadpleging van de commissie, die, in voorkomend geval, in de contracten bedoeld in artikel 312, § 1 opgenomen wordt. De heropbouwcode en zijn wijzigingen worden aan de commissie meegedeeld</p>	<p><i>Section II - Code de reconstruction</i></p> <p>Art.314. § 1. Le gestionnaire du réseau établit le code de reconstruction après consultation de la commission lequel est repris, le cas échéant, dans les contrats visés à l'article 312, § 1er. Le code de reconstruction, ainsi que ses modifications, sont notifiés à la commission.</p>
-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Energy shortage: processes



Crisis organizations: Elia and Government



Measures (decided by Minister) in the process of scarcity

1. Demand limitation measures

- Sensibilisation of public: lowering down demand through media (radio, TV, websites,...)
- Shift demand peak
- Use other means

2. Prohibition to use electricity for certain purposes: examples

- Industry: prohibition to use electricity for certain processes, reduce power to cooling installations for limited period, reducing outside lighting,
- Tertiary: limited use of electrical heating, lighting during peak hours,...

3. Activation defence plan: 2 parts

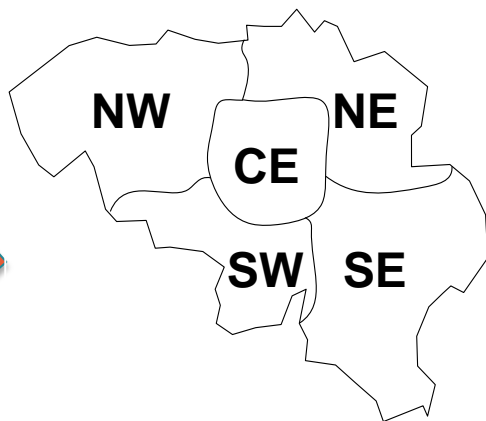
- Protection against sudden phenomena; automatic load shedding plan and manual action
- Protection against predicted scarcity/ shortage; manual action

1

What if this would not be sufficient?



If production + imports - measures to reduce consumption are not enough then the final solution = load shedding (emergency procedure)



Plan for sudden events → plan for scarcity (efficient organisation)

6 steps, 5 zones

On average per step practically 5% load of zone

Procedure: interruption and re-energisation by TSO, clearing + feeding priority load by DSO

Thank you for your attention