

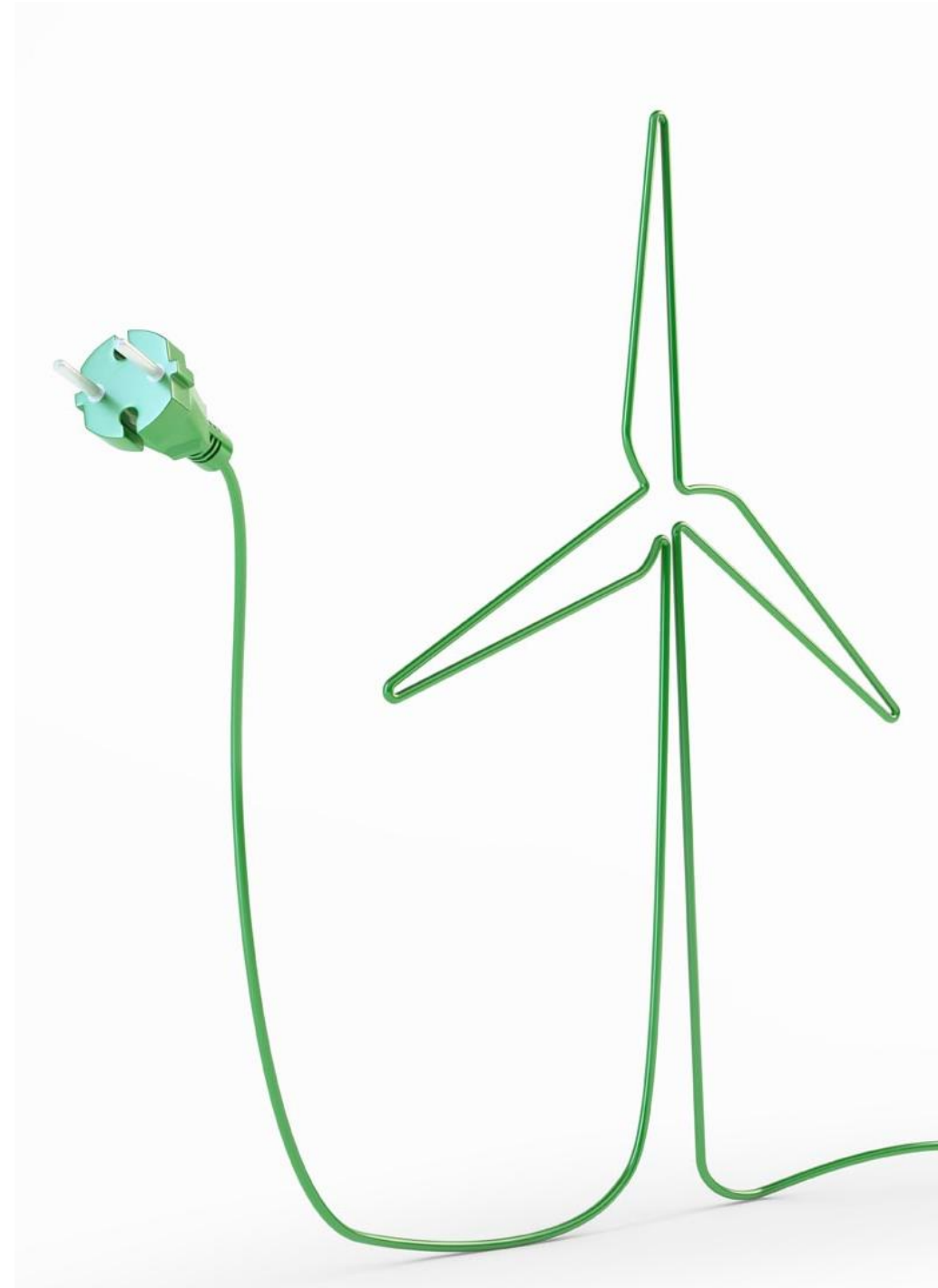


Switch-off plan

(Afschakelplan / Plan de délestage)

A brief overview

Deloitte Enterprise Risk Services
Business Continuity Management



Switch-off plan *(Afschakelplan / Plan de délestage)*

A brief overview

🔍 Background

- 2014
- Oil spill in Doel 4
- Sabotage
- Due to lack of security?
- Unforeseen closure of power plants
- Possible electricity shortage

↔ Differences with plan 2014-2015

- ENTSOE (European Network of Transmission System Operators for Electricity) requires all Member States to submit a plan to switch off half of their capacity in case of an emergency
- Switch off 5 percent of capacity (approx. 700 megawatt during peak hours)
- 8 zones instead of 6 zones

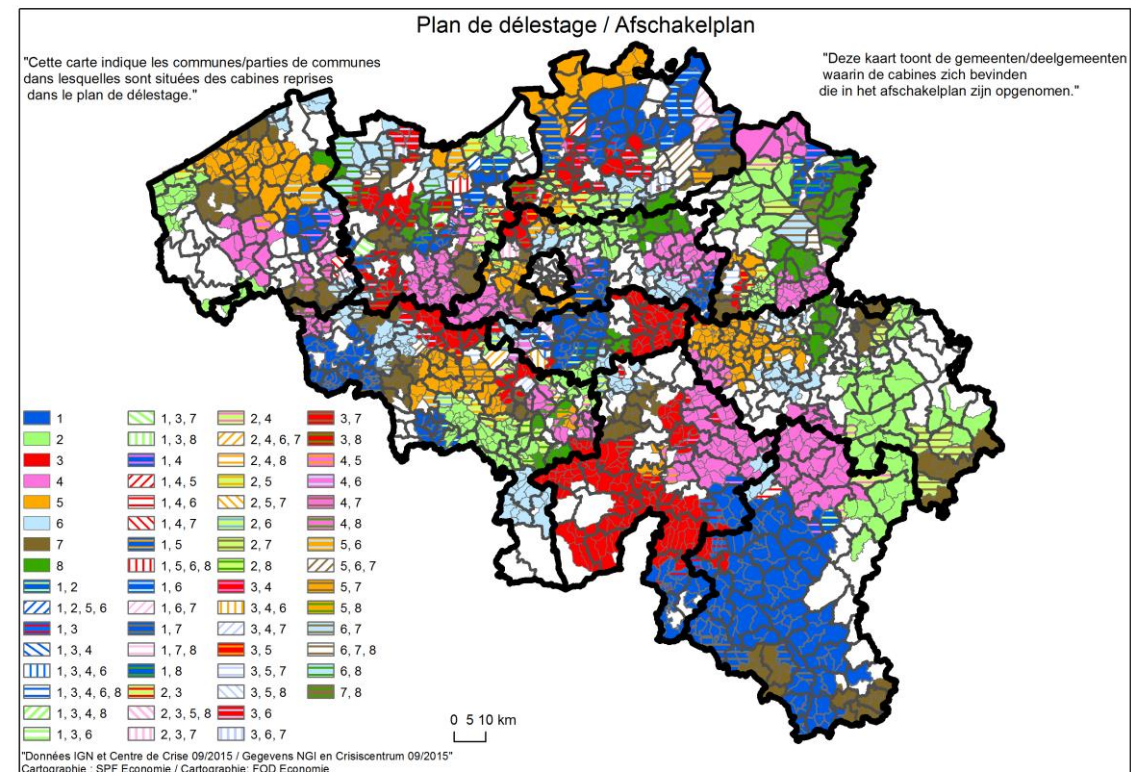


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- Valid as of 1 November 2015
- Belgium divided into 8 zones
- Zone 8 will be switched off first
- Taking turns *(e.g. day 1: zone 8, day 2: zone 7, etc.)*
- When?
 - Sudden phenomenon (extreme weather conditions, incidents, etc.)
 - Automatic switch-off
 - Announced shortage
 - Manual switch-off
 - Communicated 1 day upfront
 - Peak hours: 17h – 20h



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Total number of distribution cabinets that will be switched off from the power grid

Province	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 7	Zone 8	Not included in switch-off plan	Total
Antwerpen	1.757	822	1.606	326	1.549	1.197	949	374	4.570	13.150
Brabant Wallon	1.325	76	717	180	121	551	1	214	693	3.878
Brussel / Bruxelles	0	0	0	0	52	0	0	0	6.116	6.168
Hainaut	1.153	1.510	921	927	1.041	935	1.579	654	3.552	12.272
Liège	0	1.138	29	250	886	387	647	617	5.693	9.647
Limburg	279	1.079	163	940	165	267	577	1.041	1.402	5.913
Luxemburg	1.635	329	66	589	0	171	448	0	818	4.056
Namur	382	32	1.542	1.037	135	322	368	0	2.428	6.246
Oost-Vlaanderen	915	945	1.919	1.054	194	794	1.169	1.298	5.610	13.898
Vlaams-Brabant	485	971	330	902	909	750	747	470	3.765	9.329
West-Vlaanderen	546	995	0	1.328	2.059	929	1.262	1	8.495	15.615
Total	6.720	7.075	5.687	7.207	5.562	5.106	6.798	4.295	38.572	87.022

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? Uncertainties

- Theoretical model
- Never been tested before
- Not all distribution cabinets within the zones will be switched off
 - List of all impacted streets made available
- Location of impacted distribution cabinets will not be made public due to security reasons



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Extra information

Distribution network operators

The distribution network operators in Belgium are:

- Flanders: Eandis, Infrax
- Wallonia: ORES, Tecteo (Resa), Régie de Wavre, AIESH, AIEG
- Brussels-Capital Region: Sibelga

Useful links

- <http://afschakelplan.be/>
- <http://economie.fgov.be/nl/elektriciteitsschaarste/afschakelplan/#.VfmP5Bhtmko>
- <http://www.eandis.be/eandis/energieschaarste.htm>
- <http://www.infrax.be/nl/wat-te-doen-bij/elektriciteitsvoorziening-in-de-winter/stratenlijst-elektriciteitsschaarste>
- <http://www.ores.net/FR/Residentiels/Chantiers-Interruptions/Delestage/Pages/default.aspx>
- <http://www.alg.be/client/blackout/>
- <http://www.sibelga.be/nl/sector/stroomschaarste-afschakelplan-blackout/afschakelplan-brussel>

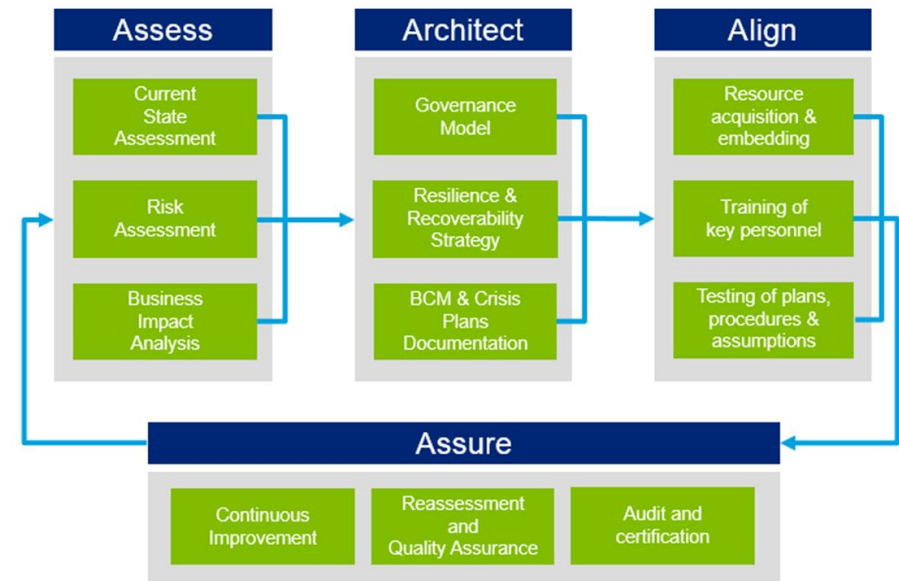


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Our Business Continuity Management (BCM) methodology

⊕ How can we help you?

- Assess the **current preparedness** against a black-out;
- Assess the **current risks and vulnerabilities** that the company is facing;
- Analyse the impact on the **key business processes**;
- Define **roles and responsibilities** for business continuity and crisis management during “business as usual”, during/after an incident, etc.;
- Define a **resilience and recoverability strategy** in order for the business to survive an incident in the **most efficient and effective way**;
- Translate the strategy into **workable and action-oriented plans**, such as Business Continuity Plans, Crisis Communication Plans, specific Contingency Plans for an announced outage, etc.;
- Ensure **awareness and training** to all relevant internal stakeholders;
- **Exercise and test** the plans in an incremental way from table top to real-life tests.





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