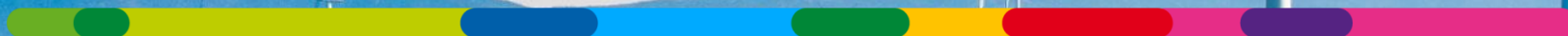

Third-party firm / environment safety presentation



Welcome to the Classique SUD production zone



Table of Contents

Chapter 1

GENERAL RULES

Chapter 2

EMERGENCIES

Chapter 3

AUTHORISATIONS

Chapter 4

PERSONAL PROTECTIVE EQUIPMENT

Table of Contents

Chapter 5

RISKS

Chapter 6

SIGNAGE

Chapter 7

ENVIRONMENT

01

General rules



Chapter 1: General rules

NO LIFE AT RISK

Vous devez respecter en permanence
les règles qui sauvent.

4 major risks



Gas



Electrical and fluid lockout/tagout



Lifting and handling



Work at height (people and objects)



To eliminate accidents caused by major risks, Engie has implemented the 9 Life-Saving Rules and the 5 Essentials that must be followed by our personnel and our contractors

Chapter 1: General rules

NO LIFE AT RISK

Vous devez respecter en permanence les règles qui suivent.

DO's



BE HOOKED UP

Clip on your harness when working at height



STEP ASIDE

Stay out of the path of moving vehicles, plant and equipment



CHECK

Verify that there is no live energy (mechanical, chemical, electrical, fluids under pressure, etc.) before starting work



MAKE SURE

Only enter a trench if the appropriate wall supports are in place



CONTROL

Test that the atmosphere is safe before entering a confined space and monitor it as you work

DON'Ts



HALT

Do not perform hot work until the fire or explosion risks have been eliminated



AVOID

Do not walk or stand under a load



BAN

Do not work under the influence of alcohol or drugs including driving



STOP

Do not manipulate your phone or any other communication device while driving



NO LIFE AT RISK

Respect the Life Saving Rules all the time

General rules - The 5 essentials



General rules

- Ensuring people's health and safety
- Respecting the environment



General rules

Prohibitions and restrictions:

- No alcohol
- No drugs
- Smoking (including electronic cigarettes) => only in smoking bus shelters
- A ban on mobile phones and electronic devices in certain locations
- Use of fire hoses for fires only



General rules

Access:

- Access to the site after declaring your company and being in good standing with LIMOSA
- Your company will have already entered its health, safety and environment plan (HSEP).
- Receive the safety / health / environment presentation
- Pass the safety test.
- You will then be issued with an access badge.



General rules

- The badge received for access to the site must always be returned at the end of the assignment (to the guard or via the letterbox provided for this purpose).
- You must carry your badge with you at all times. This makes it possible to count the numbers more quickly at the assembly point in the event of an alarm.
- Use the car parks provided
- Observe the maximum speed limit (20 km/h).
- Pressure cylinders must be secured with non-combustible materials.



General rules

Living area:

- Meals in designated areas
- Order and cleanliness
- Unobstructed passageways (storage space for parts, tool cabinets, workbenches, etc. marked out)
- Tidy workspaces





Emergencies



Chapter 2: Reacting in an emergency

- Reminder: each company must manage "first aid" (presence of first aid box, first aiders).
- In the event of more serious injury: a single number to call: **4444 (red telephone)**



Reacting in an emergency

➤ 3 emergency signals:

– Warning (alert)



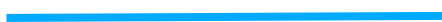
- Discontinuous sound: reserved for PPE/rescue action required; pay attention to sound instructions

– Evacuation (alarm)



- **Modulated sound → Evacuate immediately to the assembly point with your badge, without using the lifts or going back to the changing rooms.**
- **Even if the signal stops, go to the assembly point and wait for the alarm signal to end.**
- Badge in the meeting place!

– End of alarm



- Continuous sound: return to authorised site.



● TEST = every 1st Thursday of the month around noon

- The alert signal can be accompanied by a verbal message.



Reacting in an emergency

- In the event of an accident, incident, major pollution or environmental incident
 - A single internal emergency number: **4444** (the control room)
 - Notify your line manager or a supervisor **ENGIE Electrabel** (work manager)
 - Possible support from the on-site First Response Team **ENGIE Electrabel**
 - If you need to be taken to hospital, you must go by ambulance (not allowed to use colleagues, friends, family or your own car).



Reacting in an emergency

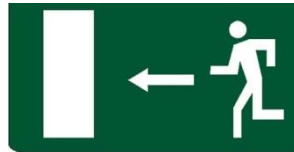
Evacuation

➤ In the event of evacuation:

- Evacuation will still take place via the normal exit routes, simply follow the signs below:



- If the normal exit is not accessible, use the emergency exit following the signs below:



- Don't be surprised by the route you take, it's a safe one that will guide you to the assembly point.

Reacting in an emergency

Fire

➤ In the event of fire:

- A single internal emergency number: **4444**
- Do not put yourself in danger.
- Only trained personnel should respond to incipient fires.
- Use the fire extinguishers in your area.
- Close fire doors behind you.



Reacting in an emergency

Chemicals

- In the event of an incident involving chemicals:
 - Use nearby showers and eyewash stations.
 - DAP (Portable Autonomous Showers) available



03

Authorisations



Chapter 3: Authorisations Site openings and closures

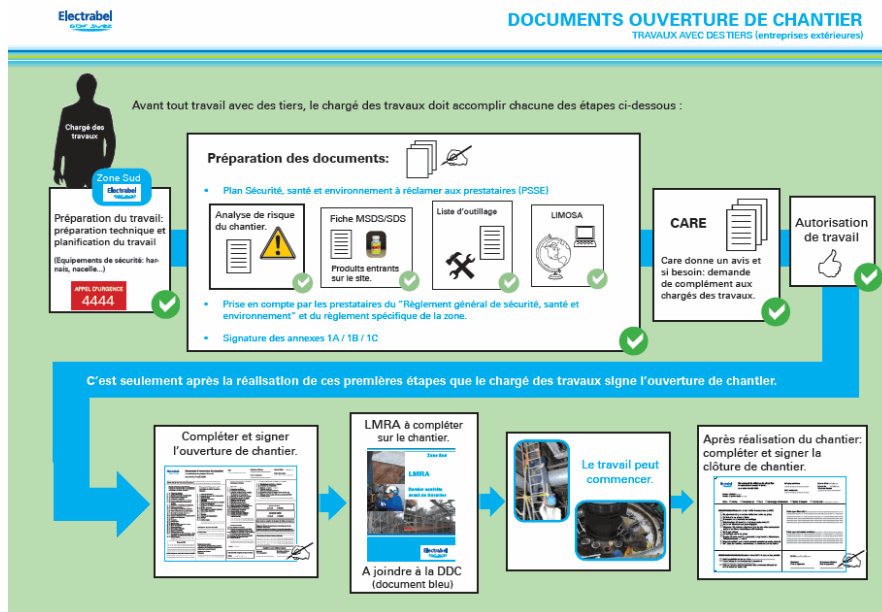
➤ Objective: mutual exchange of information between companies and Engie Electrabel

□ **ENGie Electrabel** → Third parties: what are the specific risks present on our site?

□ Third party → **ENGie Electrabel** : what risks are introduced by your intervention?

➤ As a result:

□ Preventive measures to be taken



Electrabel **Document d'ouverture de chantier**
En application du chapitre IV (art.8) de la loi du 04 août 1996

Site: Entreprise extérieure: Date de début:
Ondres commandes: Nature des travaux:

GSM chargé des travaux EBL:
GSM chargé des travaux prestataire:

Risques encourus par les agents de l'entreprise extérieure des aux installations ELECTRABEL ou autres chantiers.	Risques particuliers pour les agents ELECTRABEL du fait de l'entreprise extérieure
1. ☐ Travaux en hauteur	1. ☐ Travaux superposés
2. ☐ Travaux superposés	2. ☐ Appareil de levage et de manutention
3. ☐ Appareil de levage et de manutention	3. ☐ Chute d'objets
4. ☐ Produit toxique / dangereux	4. ☐ Ouverture dans le sol
5. ☐ Intoxication / asphyxie	5. ☐ Pousière
6. ☐ Produit inflammable et ou explosif	6. ☐ Encombrement des aires de circulation
7. ☐ Aspects thermiques (lambeaux ou contact)	7. ☐ Coup d'arc électriques
8. ☐ Installation à démarrage automatique	8. ☐ Projection de matière incandescente
9. ☐ Machines tournantes à proximité	9. ☐ Bruit
10. ☐ Perte sous pression	10. ☐ Produit dangereux
11. ☐ Démontage de protection collective	11. ☐ Démontage de protection collective
12. ☐ Travail à flamme nue ou point chaud (soudage, coupage, découpage...)	12. ☐ Démontage de calibrot
13. ☐ Courroies transportées	13. ☐ Soudure
14. ☐ Travaux à l'intérieur d'un espace confiné	14. ☐ Meulage
15. ☐ Présence de corps gris	15. ☐ Contrôle géomagnétique
16. ☐ Bruit	16. ☐ Soudage
17. ☐ Pousière	17. ☐ Rouille
18. ☐ Outil portatif	18. ☐ Autres risques
19. ☐ Bord de l'eau	
20. ☐ Risque présence amiante ou PCB	
21. ☐ Chute de matériaux	
22. ☐ Risque électrique	
23. ☐ Démontage calibrot	
24. ☐ Équipement saillant	
25. ☐ Ouverture dans le sol	
26. ☐ Connaissance du plan des tuyaux, câbles électriques ou équipements dans le sol.	
27. ☐ Autres risques	

Delimitation de la zone de travail:
Horaires prévu:

Risques ATEX:
Autres travaux en cours dans la zone de travail:

Équipements sociaux: Il est convenu qu'ELECTRABEL mettra à disposition de l'entreprise extérieure les équipements sociaux suivants:
Vestiaires et douches
Réfectoire

Measures de protection à charge de l'entreprise extérieure

Sécurité

- ☐ Protections auditives
- ☐ Protections individuelles (casques, lunettes, gants, souliers)
- ☐ Rapport de visite de chaque engin de levage et de manutention
- ☐ Éclairage alimenté en 24V ou TBS
- ☐ Protection de chemin de câbles
- ☐ Fillet de protection (ou autres)
- ☐ Balisage zone de travail
- ☐ Balisage ouverture au sol
- ☐ Écran de protection (soudage)
- ☐ Plote de chaque produit dangereux
- ☐ Protection travaux en hauteur
- ☐ Protection travaux superposés
- ☐ Enfouraillages conformes
- ☐ Accès, chemin de fuite
- ☐ Sorties de secours dégagées
- ☐ Protection contre la rayure

Autres mesures:

Measures de protection à charge d'ELECTRABEL

☐ Enfouraillages conforme - réception

☐ Procédure de consignation

☐ Balisage de la zone de travail

☐ Balisage ouverture

☐ Écran de protection (soudure)

☐ Protection travaux en hauteur (filets, bâches, etc)

☐ Fillet de protection ou autres

☐ Balisage chute de pièce dans les équipements (PME)

Autres mesures:

Après chantier compléter le document de clôture de chantier

Communication
Règlement général de sécurité pour entrepreneurs lors de l'exécution des travaux
Consignes de sécurité en vigueur à la centrale disponible sur: <http://www.electrabel.be/whowarewusuppliers/practicalgeneration.aspx>

Observations diverses et risques résiduels:

Réaliser la LMRA sur chantier

Electrabel Nom et signature Entreprise extérieure Nom et signature

OBLIGATOIRE: Analyse de risque sécurité
Fait le:

Authorisations



- LMRA (*Last Minute Risk Analysis*) (risk analysis in the field just before starting work)
 - The LMRA makes it possible to take account of the risks actually encountered on site.
 - The LMRA is compulsory and must be completed in the field by the works supervisor in collaboration with the contractors.
 - The LMRA must be redone each time working conditions, the environment or the teams of workers change.
 - The LMRA must accompany the work permit and the start of work on the site.

Authorisations

➤ Scaffolding:

- ❑ Any request to erect scaffolding must go through the scaffolding coordinator.
- ❑ It is forbidden to modify scaffolding. If any modifications are required, they should be requested from the scaffolding coordinator.
- ❑ Scaffolding must be approved before it is used.
- ❑ The scaffolding must then be checked every week (see dates on scaftag).



Authorisations

➤ Scaffolding:

- ❑ The assembler must have affixed its TAG →
- ❑ Some scaffolding requires calculation notes and is approved by an approved body
- ❑ Scaffolding users must be trained.
- ❑ It is forbidden to place handling equipment on scaffolding (except after authorisation, a specific calculation note and inspection).



Authorisations

➤ “Fire” permit:

- ❑ This permit (issued initially with the work permit) is **MANDATORY** for any work involving an open flame, sparks or any action that may produce a source of heat.
- ❑ If grinding and/or welding work is required for your job and this was not planned or you do not have a fire permit: contact the person in charge of the work again, who will need to obtain a fire permit.



Authorisations

➤ “Excavation” permit:

- ❑ An excavation permit must be obtained for any work requiring an opening in the ground more than 30 cm deep.
- ❑ Generally: manual excavation is required in the first 50 cm.



Authorisations

➤ Application of the "confined space" procedure:

ENGIE Electrabel

- ❑ Confined space
- ❑ Difficult access
- ❑ Potentially hazardous atmospheres
- ❑ Compulsory guarding
- ❑ Measurement of oxygen and toxic or asphyxiating gases
- ❑ Emergency lighting
- ❑ Respiratory protection
- ❑ The tools are powered by an external safety transformer.
- ❑ Lighting equipment is supplied at a very low safety voltage in dry conditions $U < 25 \text{ VAC}$ or $U < 60 \text{ VDC}$, in wet conditions $U < 12 \text{ VAC}$ or $U < 30 \text{ VDC}$.



Authorisations

- Electrical equipment (live):
 - Access strictly forbidden without authorisation



Authorisations

➤ Fork lift trucks:

❑ Strictly forbidden unless:

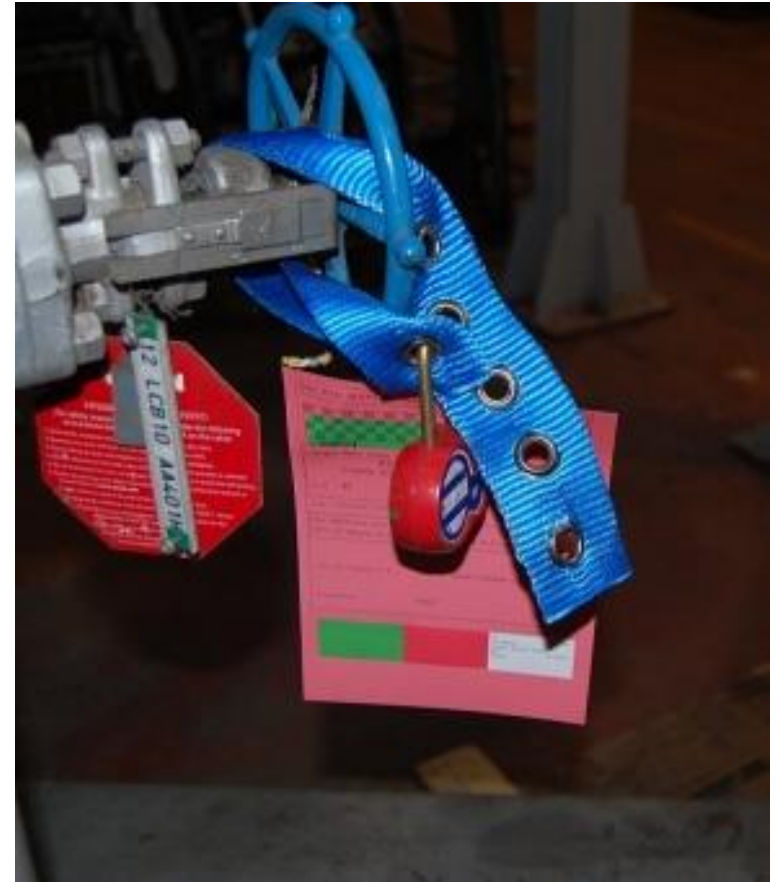
- You are authorised
- And you can prove your clearance to the works supervisor by means of a formal, written and valid document.



Authorisations

➤ Machine lock-out

- ❑ The work cannot begin until it has received authorisation from the person responsible for the installations **ENGIE Electrabel**), who issues this authorisation to the person in charge of the work.
- ❑ The work area will be recorded and labelled.
- ❑ It is forbidden to do manoeuvres in the installation



Authorisations

- The works manager: your point of contact
 - ❑ Provide you with the necessary authorisations and permits
 - ❑ Initiate site opening and closing (LMRA)
- To be contacted automatically
 - ❑ For any change in working methods
 - ❑ In the event of unforeseen circumstances
 - ❑ Present at least during critical phases



Authorisations

Marking of lifting equipment and accessories

- The colour of the colson indicates the year of validity.
- The number on the partex marker indicates the month of expiry.
- **Forbidden to use if not marked or if out of date or faulty**

Code couleur Electrabel, équipements de travail légalement soumis au contrôle

Ruban de couleur

2016 – 2022 – 2028	=	
2017 – 2023 – 2029	=	
2018 – 2024 – 2030	=	
2019 – 2025 – 2031	=	
2020 – 2026 – 2032	=	
2021 – 2027 – 2033	=	

Code chiffré

03	=	31 mars
06	=	30 juin
09	=	30 septembre
12	=	31 décembre



04

Personal protective equipment



Chapter 4: Personal protective equipment

- Mandatory in all technical installations: helmet, safety goggles and safety shoes
- + task-specific protection (based on your risk analyses) Example: hearing protection, gloves, breathing mask, visor, etc.)
- Please note: safety harnesses and lanyards must be used for scaffolding heights of 2 m and above, except where the scaffolding is compliant.



05

Risk Management



Chapter 5: Risks

➤ Analysis

- No work can begin without formal authorisation and a prior risk analysis.

➤ Equipment

- Always accompanied by its control label (power tools, pneumatics, hydraulics)
- Correct use

➤ Dangerous products

- Use only with the authorisation of the works manager (who will have checked beforehand that this product is authorised by **ENGIE Electrabel** and will give you the conditions of use).



Risks



Trucks and vehicles that require at least a "C" or "CE" licence and are not fitted with a reversing alarm and/or sensors and/or a reversing camera must be supervised when reversing (including car parks and outdoor worksites).



Risks

➤ Electricity

- Risk of fatal electric shock at voltages $> 12\text{ V}$



- No entry



Risks

- Explosive atmospheres (ATEX):
- Atmosphere presenting a risk of explosion due to a (potential) concentration of gas or dust
- A pictogram indicates the ATEX zone.



Risks

- ATEX atmospheres can be caused by a gas or dust atmosphere
- Examples of dangerous locations:
 - Natural gas: gas substation + gas turbine
 - Battery rooms: H₂
 - Alternators and storage: H₂
 - Gas storage
 - Around burners

Risks

ATEX precautions

- Scrupulously follow the instructions of the work supervisor
- If necessary, ask to consult the ATEX zoning map
- Do not produce splashes or hot spots
- Use ATEX-certified equipment suited to the nature of the ATEX zone (gas or dust)
- Carry out a permanent analysis of the atmosphere (in the case of an ATEX GAS zone)
- Close to an ATEX zone, fit all the necessary protection and shields to prevent hot or incandescent splashes from entering the ATEX zone.
- In dusty environments, avoid suspending dust deposits



Risks

Biological hazards

➤ Dangerous places:

- Any place with stagnant sludge (sludge from Coo basins, sludge from dams, sludge from cooling systems: condensers, bona, bar screens, etc.)

➤ Increased risk from airborne droplets:

- Use of raw water for high pressure cleaning
- Sludge cleaning

➤ Prevention:

- PPE: PPE: P3 mask, waterproof gloves, overalls
- Hygiene: wash hands and face before eating, smoking, etc.



Risks

Burns

- Dangerous places:
 - Engine room, boiler, etc.
- Risk of contact with uninsulated hot pipes
- High-pressure steam leaks



Risks

Artificial optical radiation (Royal Decree of 22 April 2010)



➤ Laser, infrared rays: Risk analysis and compliance of appropriate protection with the equipment

➤ Welding (arc, UV)



➤ Risk to eyes and skin



➤ Mandatory use of protective tarpaulins



Risks

Electromagnetic fields

- Do not park in areas covered by this pictogram:



- Danger for pregnant women and people with active implants (e.g. cardiac implants):



Risks

- When sediments (sludge and raw water residues) are heated, gas is produced.
- **Warning:** when welding / oxycutting raw water pipes:
 - risk of explosion (production of CH_4)
 - anoxia (lack of oxygen) (due to the presence of CH_4/CO_2)
 - intoxication (CO)

DO's



BE HOOKED UP

Clip on your harness when working at height



STEP ASIDE

Stay out of the path of moving vehicles, plant and equipment



CHECK

Verify that there is no live energy (mechanical, chemical, electrical, fluids under pressure, etc.) before starting work



MAKE SURE

Only enter a trench if the appropriate wall supports are in place



CONTROL

Test that the atmosphere is safe before entering a confined space and monitor it as you work

DON'Ts



HALT

Do not perform hot work until the fire or explosion risks have been eliminated



AVOID

Do not walk or stand under a load



BAN

Do not work under the influence of alcohol or drugs including driving



STOP

Do not manipulate your phone or any other communication device while driving

9 simple rules can save your life



NO LIFE AT RISK

Respect the Life Saving Rules all the time





Signage



Chapter 6: Signage Chemicals



Signage

- Emergency exit



- Suspended loads



- Hand protection must be worn



- General hazard



- Hearing protection must be worn



- Reinforced fire valve



Signage

Formes	Couleurs			
	Rouge	Bleu	Jaune	Vert
Rond	Interdiction 	Obligation 	-	-
Triangle	-	-	Avertissement de danger 	-
Rectangle / Carré	Lutte contre l'incendie 	(Indication)	-	Sauvetage ou secours 

Signage

Locating pipes

- In the southern zone, the legal colour code applies.
- However, variants may be encountered and will be explained on site.
- Note: if there are 2 different fluids in the same insulation, there will be 2 separate marking rings, about 15 cm apart.

Main colours (width = 50 mm)	
Green = Water	Black = combustible
Red = Steam	Orange or brown = Oil
Yellow = gas	Purple = Acid or Base
Blue = Air	Brown = Wood dust



Signage

Hazard marking

Rose		Balisage FME (délimite une zone à risque FME : risque d'objet migrant dans les équipements ou systèmes).
Rouge/ Blanc		Zone de travail Zone interdite au stockage
Jaune/ Noir		Zone dangereuse (obstacle, risques de chutes), Zone de stockage
Blanc		Le blanc est utilisé pour baliser les voies d'accès aux zones de travail dans les lieux du service électrique (postes, cabines et locaux).

Signage

Hazard marking

- Hazard marking:
 - Poster to be displayed at the site entrance
 - Duly completed



ATTENTION
PASSAGE INTERDIT À TOUTE PERSONNE NON-AUTORISÉE

RAISON DU BALISAGE

CHANTIER DE LA SOCIÉTÉ

NOM ET N° GSM DU RESPONSABLE DE LA SOCIÉTÉ SE TROUVANT SUR LE CHANTIER

NOM ET N° GSM DU CHARGÉ DE TRAVAUX ELECTRABEL

Electrabel
GDF SUEZ

Signage

Asbestos and RCFs

- No working
- Inform the foreman
- Removal only by authorised firms

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07

Environment



Chapter 7: Environment

Objectives for the zone

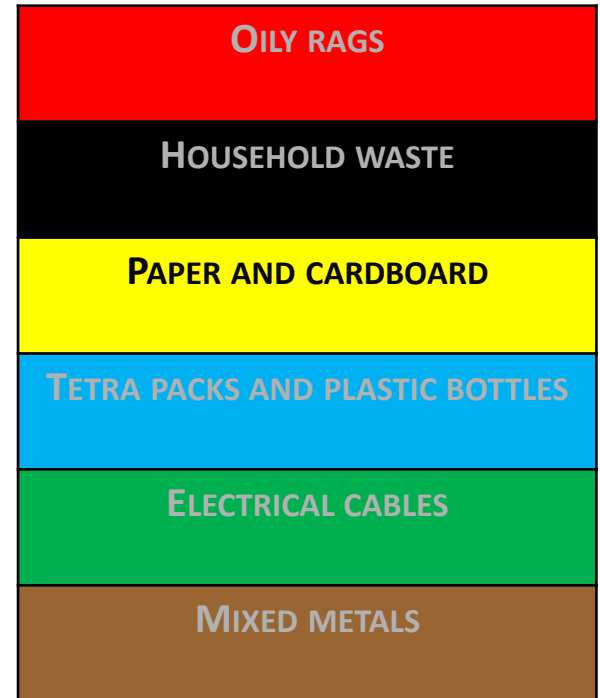


- Continuous improvement of our environmental management - ISO 14 001
- Compliance with standards and legislation.
- Limiting the environmental impact of our power plants:
 - ▣ Noise
 - ▣ Emissions into the air, ground and water
 - ▣ Sorting and reducing waste.
- Getting **everyone** involved in the environment



Environment

Waste sorting at the power station: colour coding in the South zone



Environment

Sorting waste at the plant

New bin: biodegradable waste

Admissible waste	Waste not accepted
Food leftovers	PMC packaging and cans
Leftover fruit / vegetables	Empty packaging
Prepared food	Fish leftovers
Out-of-date food	
Kitchen waste	Waste that may contain foreign bodies such as glass, napkins, forks, etc.
Waste meeting the conditions for use as a fertiliser / soil improver	
Compostable biodegradable bags	



Environment

Waste storage space

➤ Container parks: **SORT** your waste according to the instructions

➔ Storage space on each site



16 05 04
AÉROSOLS



 AUTORISÉS	 INTERDITS
• les aérosols de peinture • les aérosols d'huile, de décalé tout • les aérosols chlorocarbure • les extincteurs pleins • y compris Halon	• les pots de peinture • les bombes de gaz • les cartouches de siphon gaz

17 06 04
ISOLANTS



 AUTORISÉS	 INTERDITS
• les calorifuges sans amiante, laine de roche, laine de verre, rigide sans substance dangereuse	• amiante • matériaux d'isolation contenant des substances dangereuses



Environment

Environmental pro-activity

- Use the inlets available from maintenance
- Avoid penetrating the ground, sewers or water with the preventive measures available in the store.
- Ban on dumping products down drains.
- Environmentally hazardous products (H400 to H413) **may not be** used unless they have been approved in advance by Electrabel (see the works manager for further details).
- Bring a water bottle and / or a cup. Hot drinks machines and water fountains are available -> reducing our environmental footprint 😊



ENGIE Electrabel



Environment

Anti-pollution kit

**UNE FUITE,
UN ÉCOULEMENT SUSPECT ?**

UTILISEZ LE KIT ANTI-POLLUTION

CONTENU

- 1 obturateur d'égout réutilisable 90 x 90 cm
- 12 boudins absorbants d'hydrocarbures
- 3 x 10 kg de oildry absorbant
- 100 feuilles MRO 100
- & 3 paires de lunettes
3 paires de gants NEOSTAR

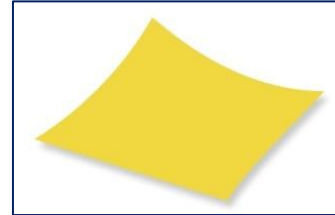


Electrabel
GDF SUEZ

Environment

In the event of an incident or liquid spillage

- Call **4444**
- Use anti-pollution kits
- Notify your foreman to report any environmental anomalies and replenish anti-pollution kits.
- Avoid penetration into the ground or sewers using the protective equipment provided in the kit.
 - The sewer stopper
 - Absorbent
 - etc.



Environment

Putting sites back in order

- When you've finished, don't forget to clean and tidy up your space:
 - Take your waste to the sorting centre
 - Put away your enclosures
 - Store your equipment
 - Clean up the site





THANK YOU

