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# Presentation security/environment third party firms – Centrale d’Amercoeur

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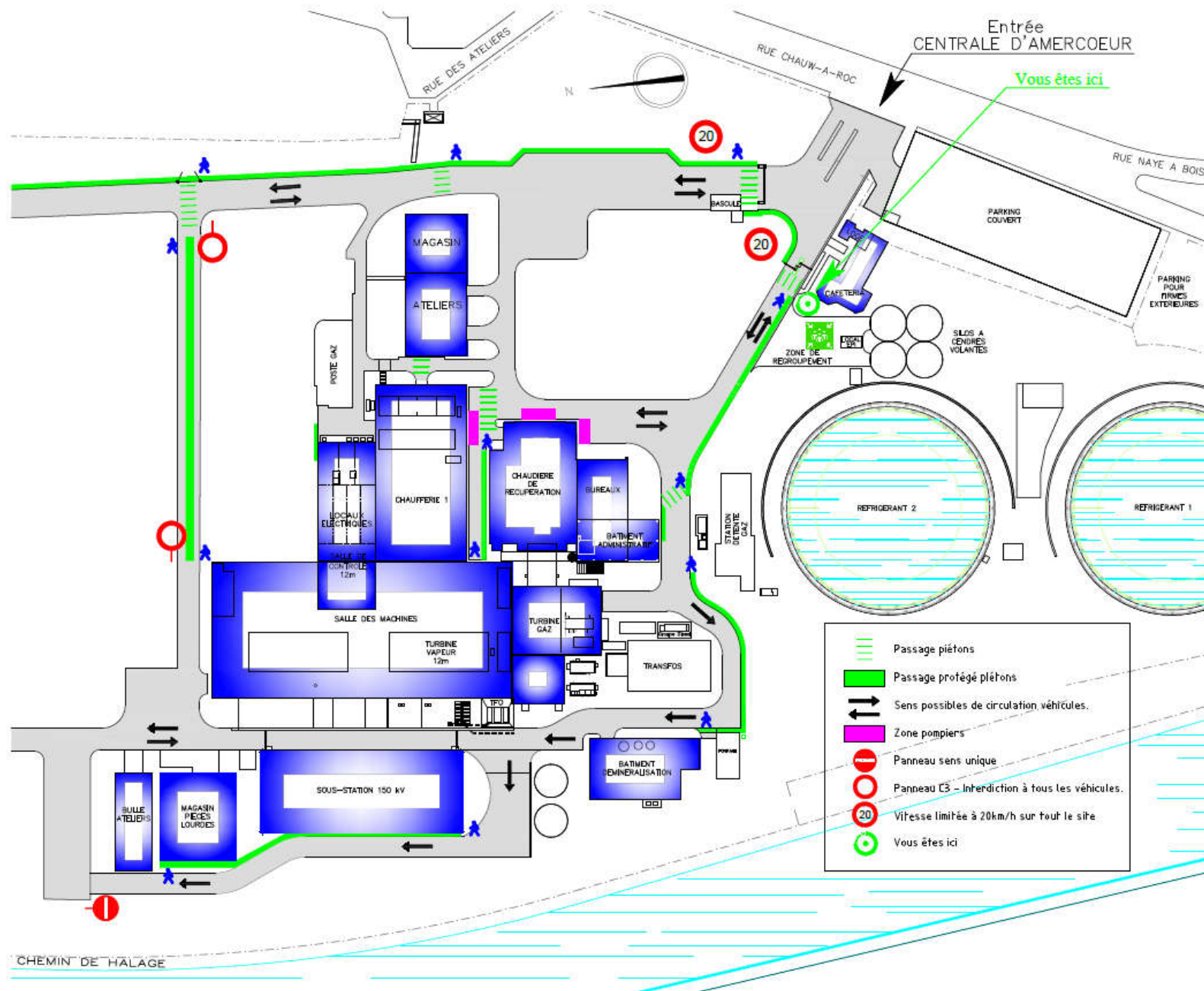


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## Site Details : Amercoeur Power Station



# Site map



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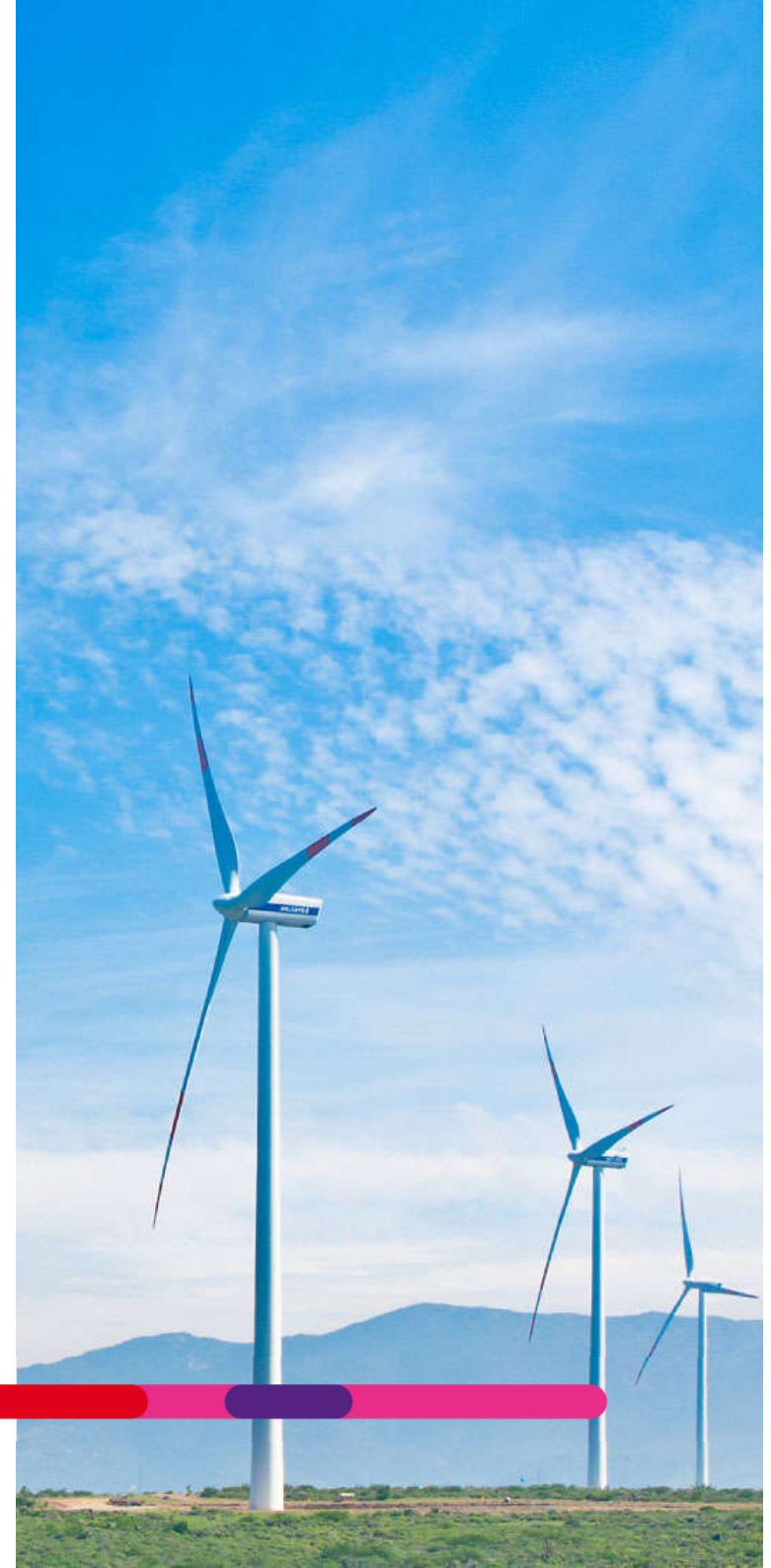
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### Chapter 5

### Industrial cyber security

01

## Evacuation (Alarm)



## Evacuation (Alarm)

### In case of an evacuation



- ❑ Assembly point  
= opposite the silos
- ❑ In the event of an evacuation, you must register with your badge at the assembly point to speed up the head count.
- ❑ If the gas turbine is started up, a spoken message will be transmitted over the loud speakers requesting the boiler building be cleared. The siren will not be activated and you are not required to go to the assembly point.

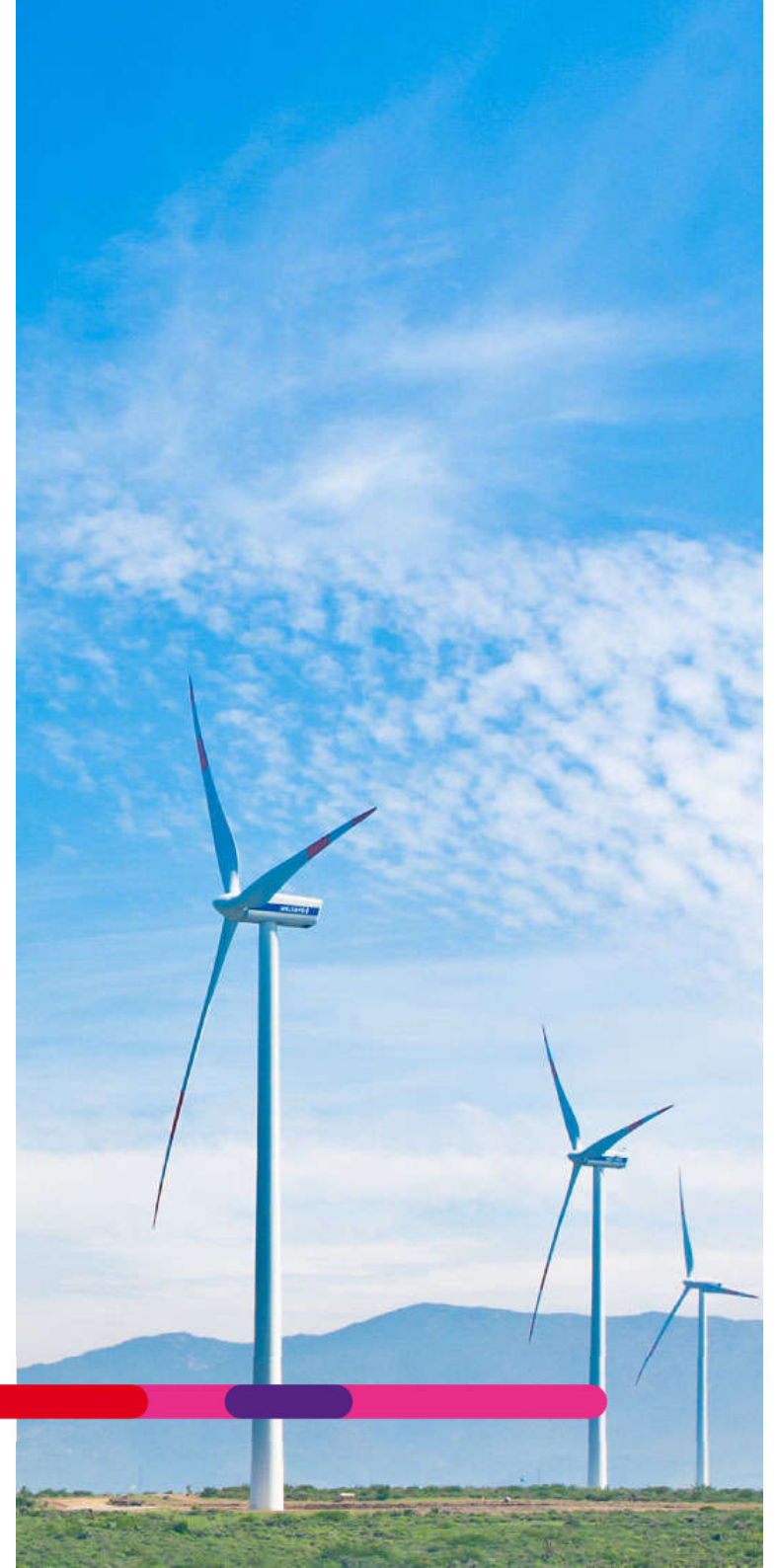


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# 02

In the event of  
an emergency

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## In the event of an emergency

### In case of minor injuries

- Sick bay (behind the cafeteria)
- Call the guard for access.



**Please note: no medical staff on-site.**



## In the event of an emergency

### In case of heart problems

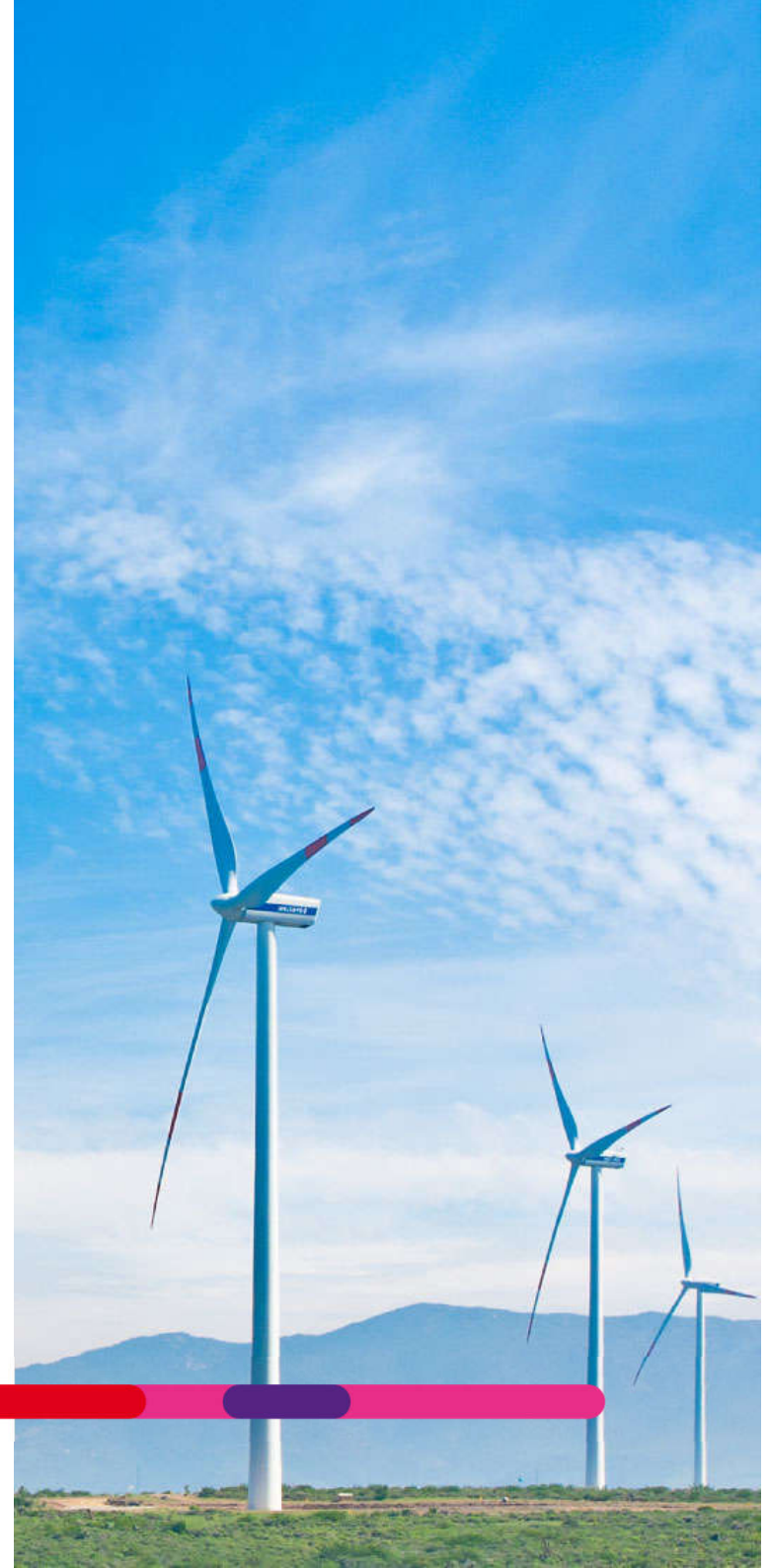
#### *Defibrillator*

- In the control room, in the supervisor's office
- Entrance in front of the guardroom
- in the workshop
- in the administration building



03

Work on gas facilities



## Work on gas facilities

### Rules

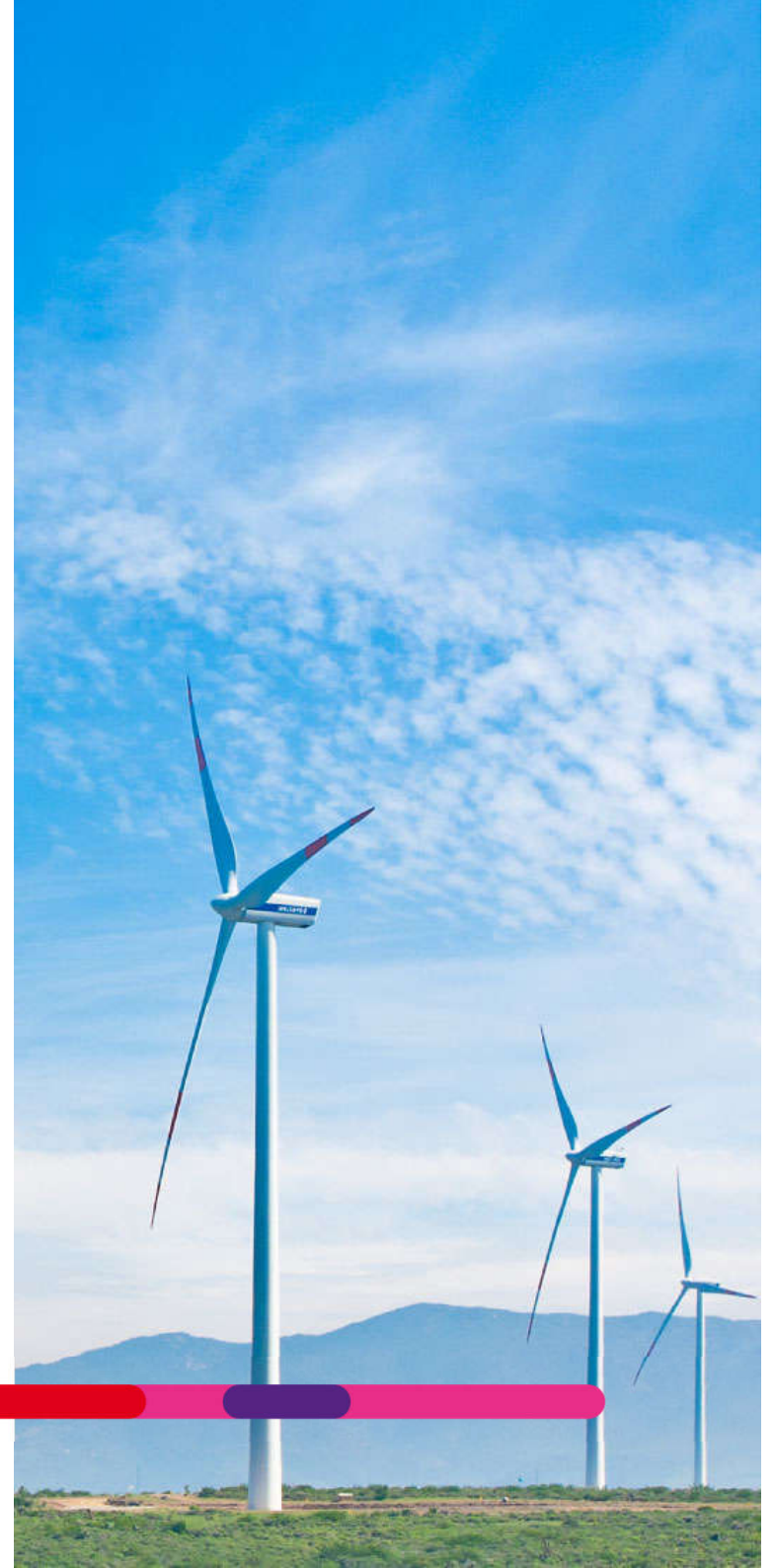
- ❑ Authorisation must be granted before work can start.
- ❑ Ensure that all pipelines are inactive and no longer contain gas.
- ❑ Very-low voltage explosion-proof lighting must be used.
- ❑ There must be enough fire extinguishers nearby.
- ❑ Do not smoke or light up.
- ❑ Beware of inert gases (nitrogen, CO<sub>2</sub>) that cause suffocation.





04

# Risks



# Risks

## Natural gas

### □ Risk :

- Suffocation
- Fire
- Explosion

### □ Prevention:

- wear individual protection equipment (self-contained mask)



—  
**Risks**  
—

**Thermal**

➤ Burns

**Steam**

➤ Burns

**Hydrogen**

➤ Explosion



# Risks

## Explosive atmospheres (ATEX)

- Hazardous areas include:
  - Hydrogen substation (H2)
  - Battery rooms: H2
  - Alternator: H2
  - Natural gas stations
  - .....





# Risks

At the demineralisation station:  
storage of considerable quantities of

- *sulphuric acid (H<sub>2</sub>SO<sub>4</sub>)*
- *hydrochloric acid (HCl)*
- *caustic soda (NaOH)*



# Risks

## ❑ Cooling towers

### ❑ Risk :

- presence of microorganisms

### ❑ Prevention:

- wear individual protection equipment (P3 mask)

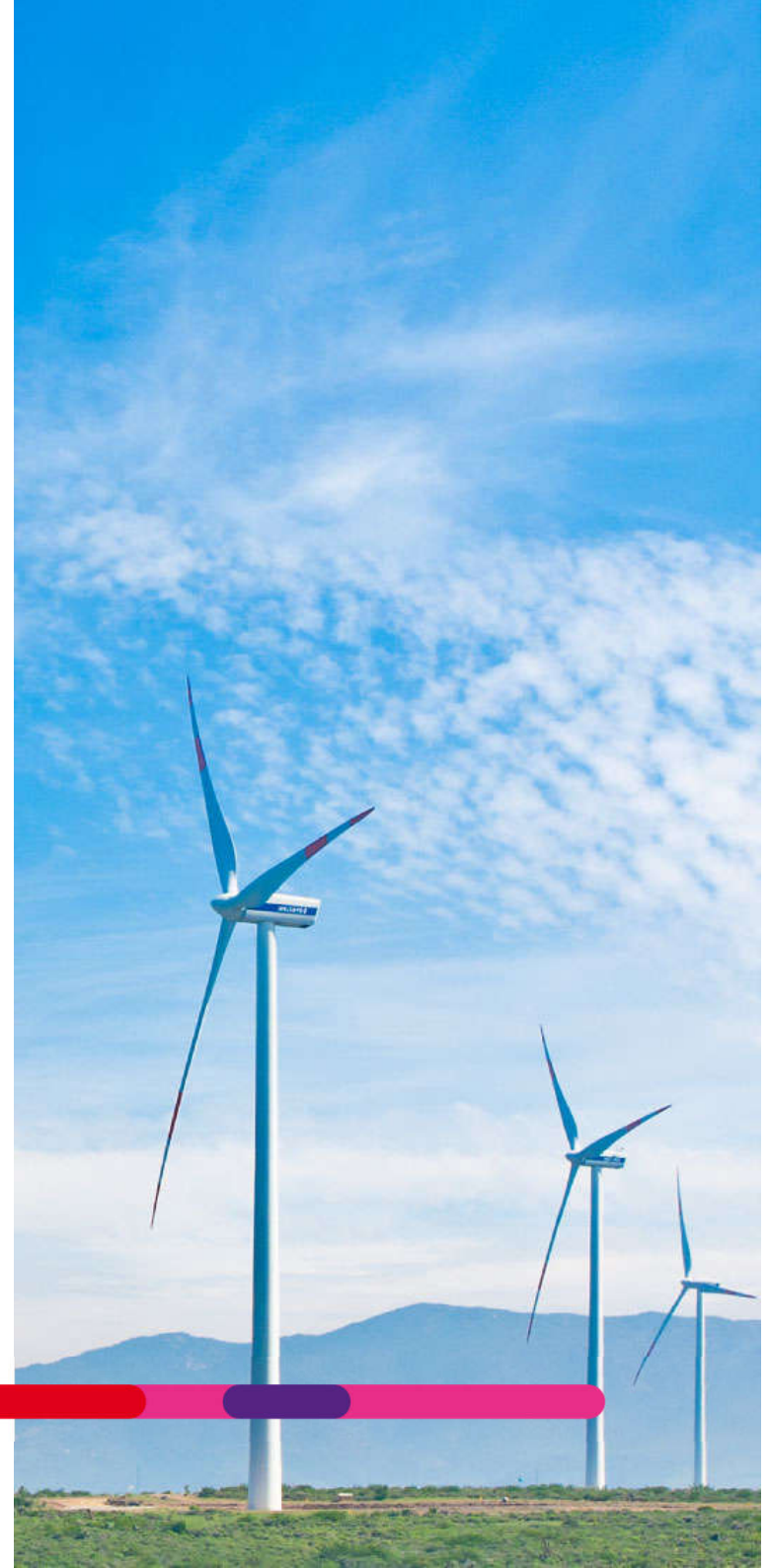


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# 05

## Industrial cyber security




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# Industrial cyber security requirements

- Connecting devices to the industrial system or disconnecting certain devices may cause plant shutdown or damage to the installations.

- It is therefore prohibited without special authorisation :

- to connect devices to the industrial system (USB, smartphones, | 
- to insert CD/DVDs to connect a cable to the industrial network 
- touching or disconnecting industrial equipment (computer, automaton, etc.) 
- to open a cabinet containing industrial equipment
- share sensitive information such as passwords

- **Failure to comply with these rules may result in exclusion from the industrial site**

- If you have any questions/for special authorization or to report a problem, please contact your Electrabel site manager.



Thank You

