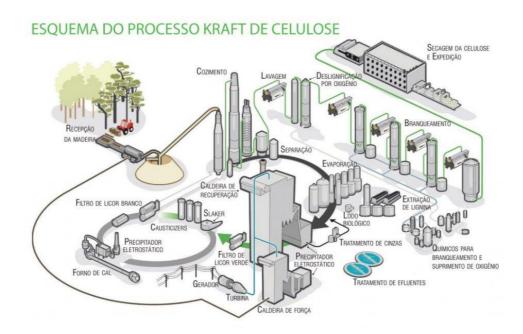
# **Workshops for Mill Annual Shutdowns**

**BOOST FURTHER COLLABORATION WITH CUSTOMER** 



## What are the objectives of the Annual Shutdown Workshop?

- Reading and recommendations of the reports from the previous Annual Shutdown;
- What equipment will be required to perform the Services (scope by equipment);
- Critical points and opportunities during caimpaign;
- Spare Parts (Shutdown Planning);
- Maintenance instructions/indications (manufacturer's maintenance manual);
- Questions, suggestions, etc.





## **Annual Shutdown WorkShop**

	Tuesday	Wednesday	Thursday	
	CMPC GUAÍBA	CMPC GUAÍBA	CMPC GUAÍBA	
<u>Customers</u>	ASD - Work Shop	ASD - Work Shop	ASD - Work Shop	<u>Valmet</u>
<ul><li>Planners</li></ul>	8 to 12 am → FBL	8 to 12 am → WLE	8 to 12 am → WPH	Specialist
Technicians	COC – Cont. Cooking, BSW, Diffusers BAT – Batch Cooking	EVA – Evaporation ASL – Ash Leaching	PDU – Pulp Drying BAL – Baling	Engineers
<ul> <li>Supervisors</li> </ul>	27 Catering	CRY – Crystallization	D, LE Dannig	Managers
<ul> <li>Managers</li> </ul>		LGB – Lignoboost LKI – Lime Kiln		
-		RCA – Recausticizing		• PES
<ul> <li>Production</li> </ul>				• PER
<ul><li>Processes</li></ul>				• FSE
Mechanical				
	1 to 5 pm → FBL WOB – Washing, Oxyg. Delign., Bleaching	1 to 5 pm → REC  RBO – Recovery Boilers and Rebuilds  NCG – Mill wide NCG solutions  BUR – Burners	1 to 5 pm → WPH WHL – Woodhandling	



### Mill clock planned according to your needs



Follow-up meeting after shutdown

Time frames here are directive, some special works require longer booking periods

ASD-L2-2026 08.01.2026

Shutdown execution

3° Work Shop ASD-L2-2026 16 to 18.09



Parts delivery & Services

negotiation

6-4 months before the shutdown

Field services work and parts order

e 0

Closing the scope

New technology investments and large scale service packages

Field services work and parts recommendations

8 months before the shutdown

Planning reviews and updates

Action list for the next

major shutdown

**Planning** 



1° Work Shop ASD-L2-2026 04 to 06.02

2° Work Shop ASD-L2-2026

27 to 29.05



## Factors more important to increasing revenue?

#### **Preventive Maintenance**

- Schedule regular inspections and servicing to avoid unexpected failures.
  - Replace wear-and-tear components before breakdowns occur.

#### **Upgrades and Retrofits**

- Improve performance with updated components or software.
  - Extend equipment lifespan and enhance efficiency.

#### **Technical Training**

- Provide operator and maintenance team training.
- Increase safety and reduce misuse-related issues.

#### **Emergency Repair Services**

- Offer rapid response for unexpected equipment failures.
- Minimize production losses and restore operations quickly.

#### **Energy Efficiency Assessments**

- Analyze equipment energy consumption.
- Recommend improvements to reduce operational costs.



#### **Calibration Services**

- Ensure equipment accuracy and compliance with industry standards.
  - Recommended for measurement and control devices.

#### **Spare Parts Management**

- Identify critical spare parts and maintain inventory levels.
  - · Reduce downtime by ensuring availability.

#### **Remote Monitoring and Diagnostics**

- Implement IoT solutions for real-time performance tracking.
- Enable predictive maintenance and faster troubleshooting.

#### **Documentation and Compliance Audits**

- Review and update equipment documentation.
- Ensure compliance with safety and regulatory standards.

#### **Lifecycle Cost Analysis**

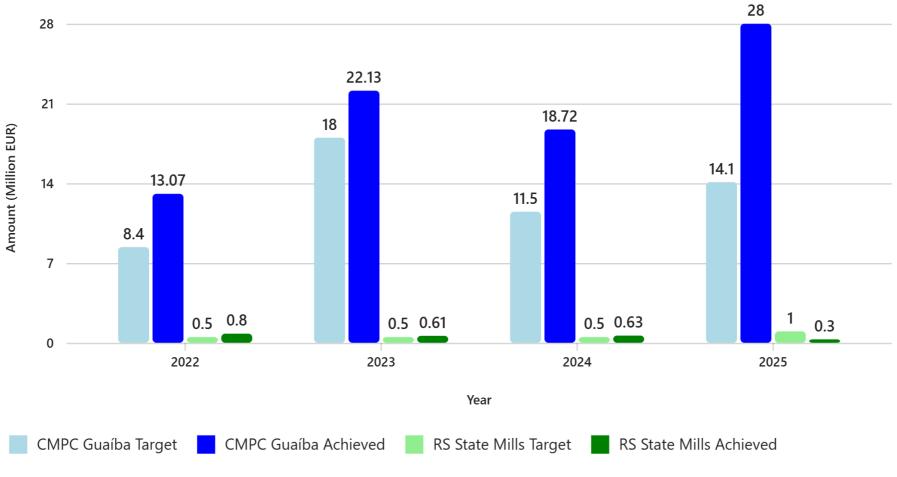
- Evaluate total cost of ownership.
- Support decision-making for replacements or upgrades.



Short term Operational Objectives	year Medium term 2 y	years 3 y	ears Long term Estrategic Objective	4 years	5 years or more
A	Tuotical Objectives	<b>1</b>	Estrategic Objective	5	<del></del>
<b>→</b> 2023	<b>→</b> 2024	→ 2025	<b>→</b> 2026	→ 2027	
Campaign → 15 months	Campaign → months	Campaign → months	Campaign → months		
<ul> <li>Feb – 1st Work Shop ASD Package for 3 cycles Agreement negotiation</li> <li>Apr – ASD - KoM</li> <li>May – ASD-L2</li> <li>Sep – 2nd Work Shop Legal Department</li> <li>Sep – ASD - KoM</li> <li>Oct/Nov – ASD-L2 BioCMPC</li> </ul>	<ul> <li>Feb – 1st Work Shop ASD Service scope</li> <li>Apr – SSD – PDU_02</li> <li>May – ASD-L2</li> <li>Jun – 2nd Work Shop ASD Service scope</li> <li>Jul – ASD - KoM</li> <li>Aug – ASD-L2</li> </ul>	<ul> <li>Feb – 1st Work Shop ASD Service scope</li> <li>Mar – SSD-L2 - WHL/FBL</li> <li>Apr – ASD-L2 - WHL/FBL</li> <li>Mai – 2nd Work Shop ASD Service scope</li> <li>Sep – 3rd Work Shop ASD Service scope</li> <li>Oct – 4th Work Shop ASD Service scope</li> <li>Dec – ASD - KoM</li> </ul>	• Jan – ASD-L2	• Jul – ASD-L2	



### **Hub@Region Achievements**







~18M EUR



