

**Purpose of the document**

- This document describes the process “To produce at energy optimum” in a A4 page (5W1H) and a set of 10 questions for self-assessment and a SIPOC.

Reference material

- Energy Management System

Position of the process

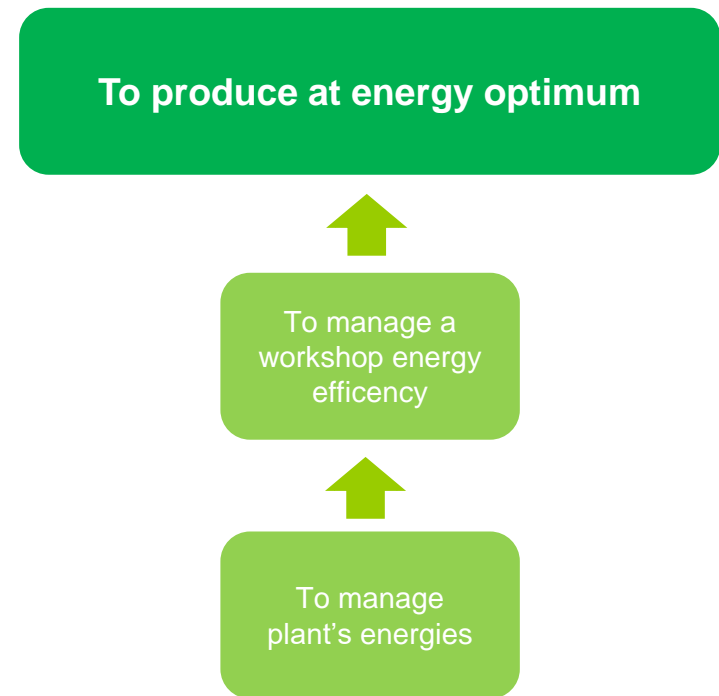
- This process is included in the « Manufacturing » process

Actors involved in the process

- Process owner: DQI/DPSI/IBIE/APE
- Guarantor of the process: Facilities manager or line manager (*RF*)
- Person in charge of the process: Supervisor (*RG*)

Scope

- Applicable worldwide to all Final assembly plants and Production plants (*UP*)



Version	Date	Description
V0		Creation
V1	17/06/16	Dissociated in Value stream and Support process

Management of the documentation	
Author	
Verified by	
Validated by Function manager	
Validated by MPES	

**WHAT?**

- Minimize energy consumption during production and non-production time
- Manage associated relevant KPI and indicators

WHY?

- To improve the Added Value of our output : vehicles, power train, parts, body...
- To be compliant with the commitments on social and environmental responsibilities of the group (CSR)

WHO?

- **Production team**
- Production managers : Group leader (*RU*), Supervisor (*RG*), Line Manager (*RF*), Director
- Teams in charge during non production times : maintenance, sub contractor...

WHERE?

- In the area of responsibility of the manufacturer and facility department

WHEN?

- During the presence of the manufacturing teams (and maintenance if necessary)

HOW ?

- By applying the “Managing nominal activities” process
- Manufacturing at the lowest energy cost:
 - By applying the manufacturing standards defining the management of the installations. Presence of stop and start work standard for all installations, all energies and speed lines,
 - By shutting down the energies during breaks,
 - By stopping the biggest consumers when stopping unprogrammed production,
 - By engaging the means of production to the just necessary to ensure the manufacturing,
 - By starting the installations at the latest and stopping at soonest,
 - By **eliminating waste from production**, and dealing with compressed air leaks,
 - By optimizing existing equipments,
 - By applying best practices from Clubs energy
- By managing energy nominal:
 - By respecting the nominal reference values for electricity and compressed air during non production (*Talon*) week-end and at night,
 - By guaranteeing the respect of these values by the presence of appropriate devices
 - Including start stop work standard in the Audit of Work Standard (*VRS*)
 - By monitoring the performance of power generation facilities



Upstream Processt	Supplier	Input	Requirements	Process Step	Output	Requirements	Customer	Downstream Process	
	Pilote or Energy correspondent	Energy consumption data	Reliable Fitted to the perimeter of the person in charge Easy to access	<p>Start event : Start of serial life</p> <p>↓</p> <p>To produce at energy optimum</p> <p>↓</p> <p>End of proces : Stop of production of the plant</p> <p>↓</p> <p>Scope : Every production workshop world wild</p>	Energy targets are met : Budget (R134), Consumption, Talon	Whatever the weather conditions and production volume Without impact on social climate	Workshop Director		
	Corporate Energy Animation team	Energy consumption data bench	Easy to access		Consumption targets are met (kWh/unit, Talon)	Objectif convergent vers un bench	C'est une exigences des cibles, donc en Input	Director	
Best practices sharing in Club Metier	Pilote or Energy correspondent	Mise à disposition des Bonnes Pratiques	Easy to access and to apply		According to the nominal	Compliant with CSR targets	C'est une exigences des cibles, donc en Input	Director	
						No exceeding		Director	Purchase processes
	Producer N+1 (Line manager (RF) or Facilities manager)	Nominal values	Budget Consumption targets Talon targets Animation quotidienne et Hebdo						
	Energy correspondent Production team Support functions	Stop and start work standard Tools	Available Up to date						

