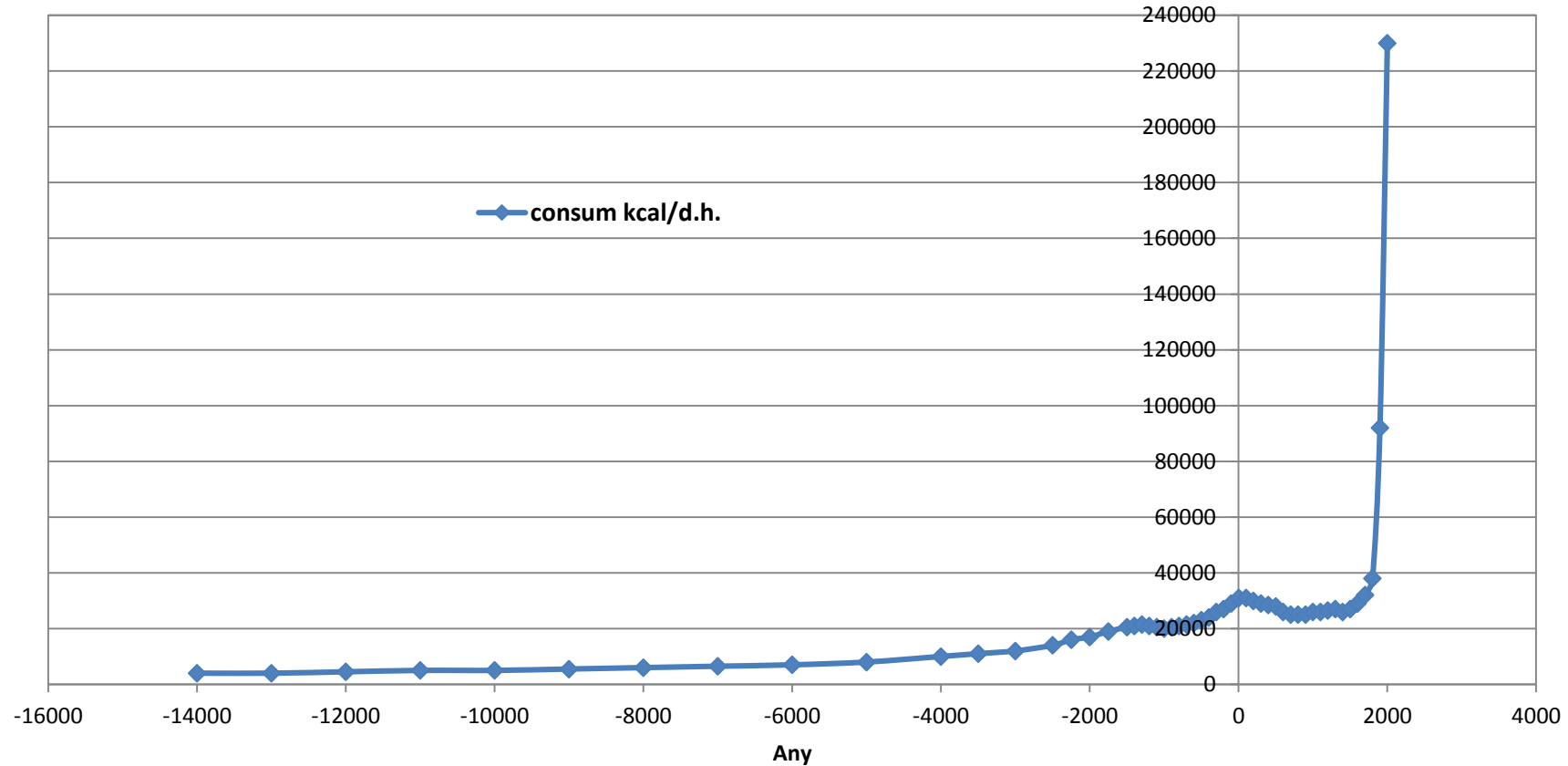


**TRANSICIÓ
ENERGÈTICA**

I INDÚSTRIA

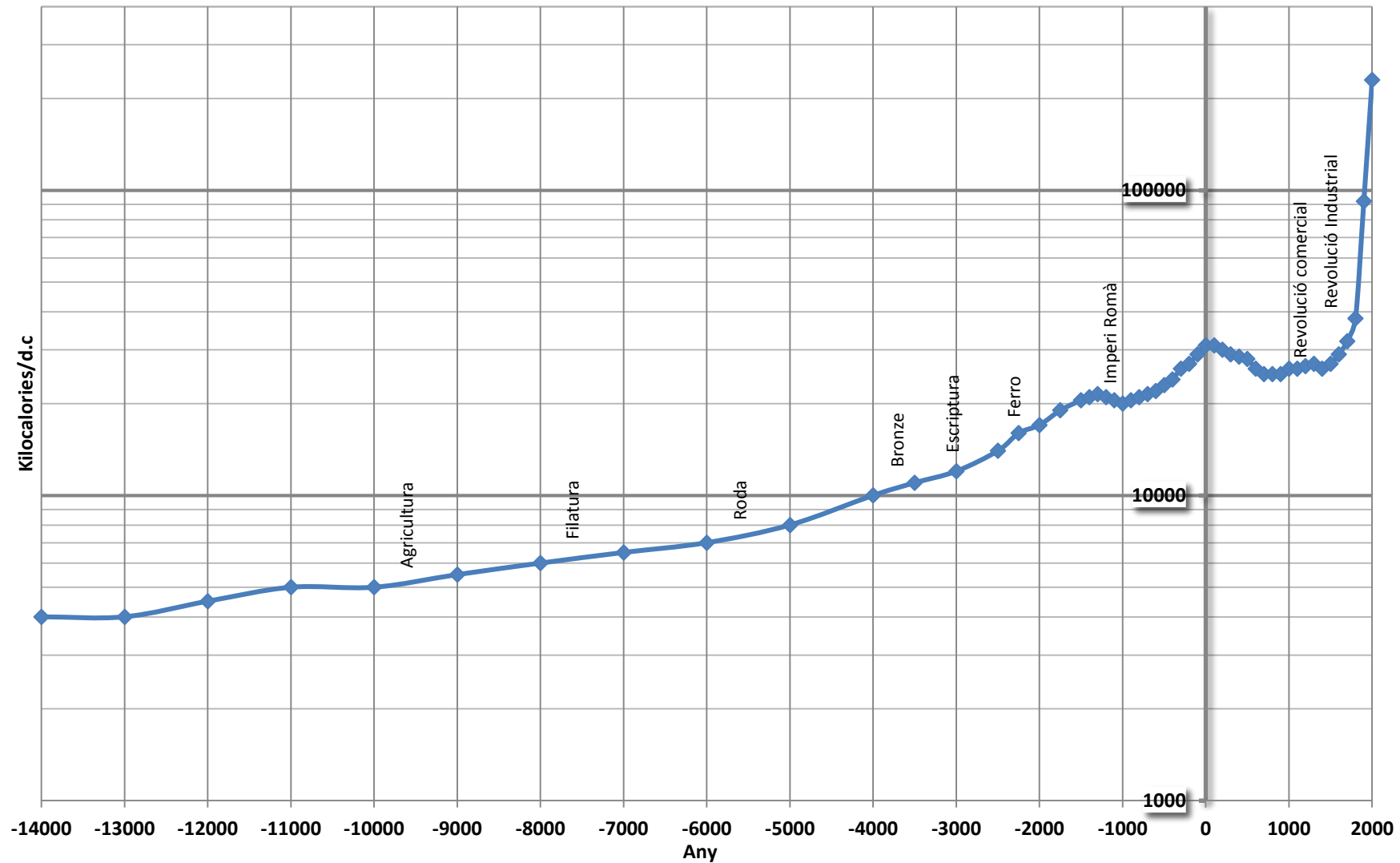
Consum d'energia de la humanitat

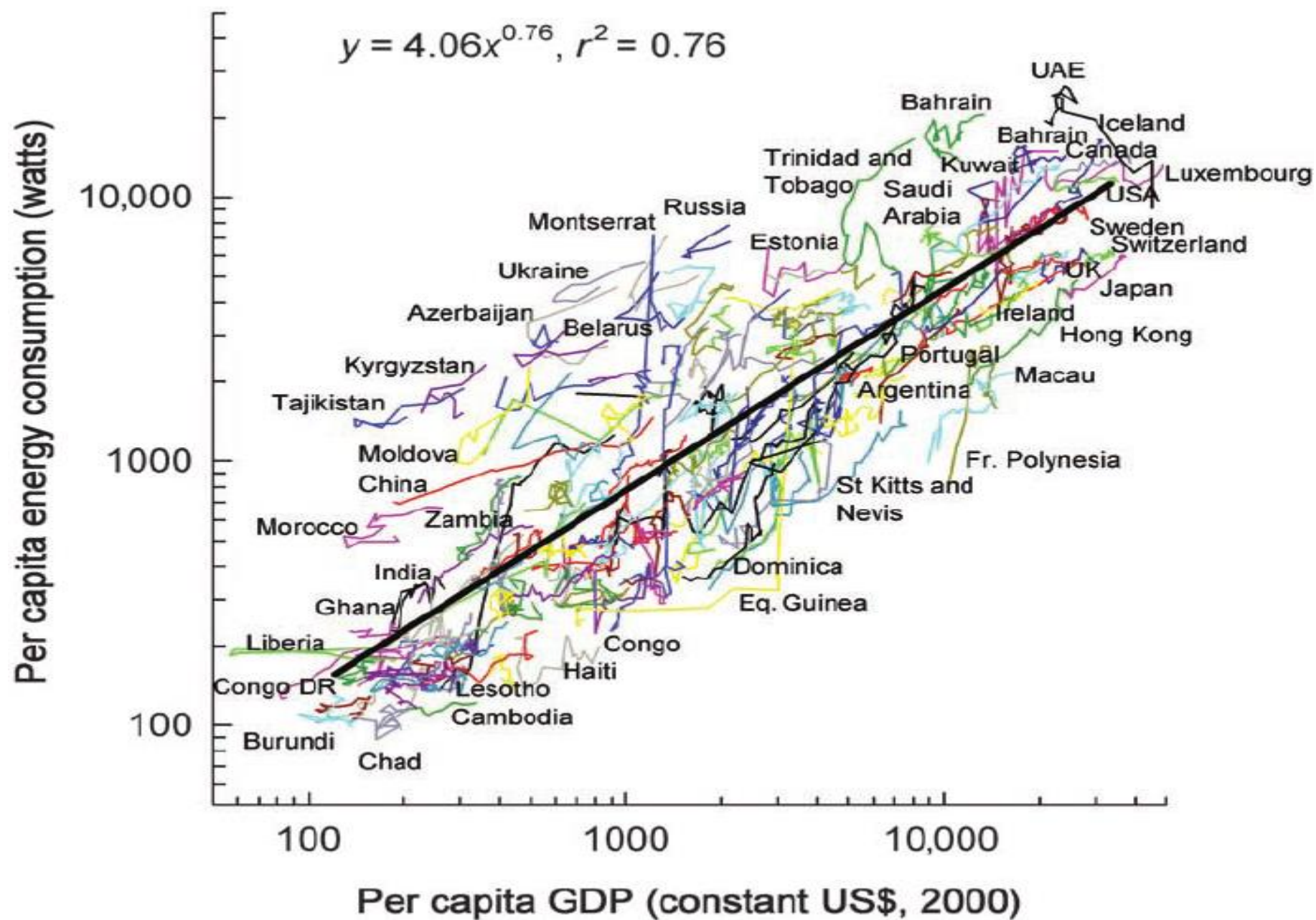
consum kcal/d.h.



Consum d'energia de la humanitat

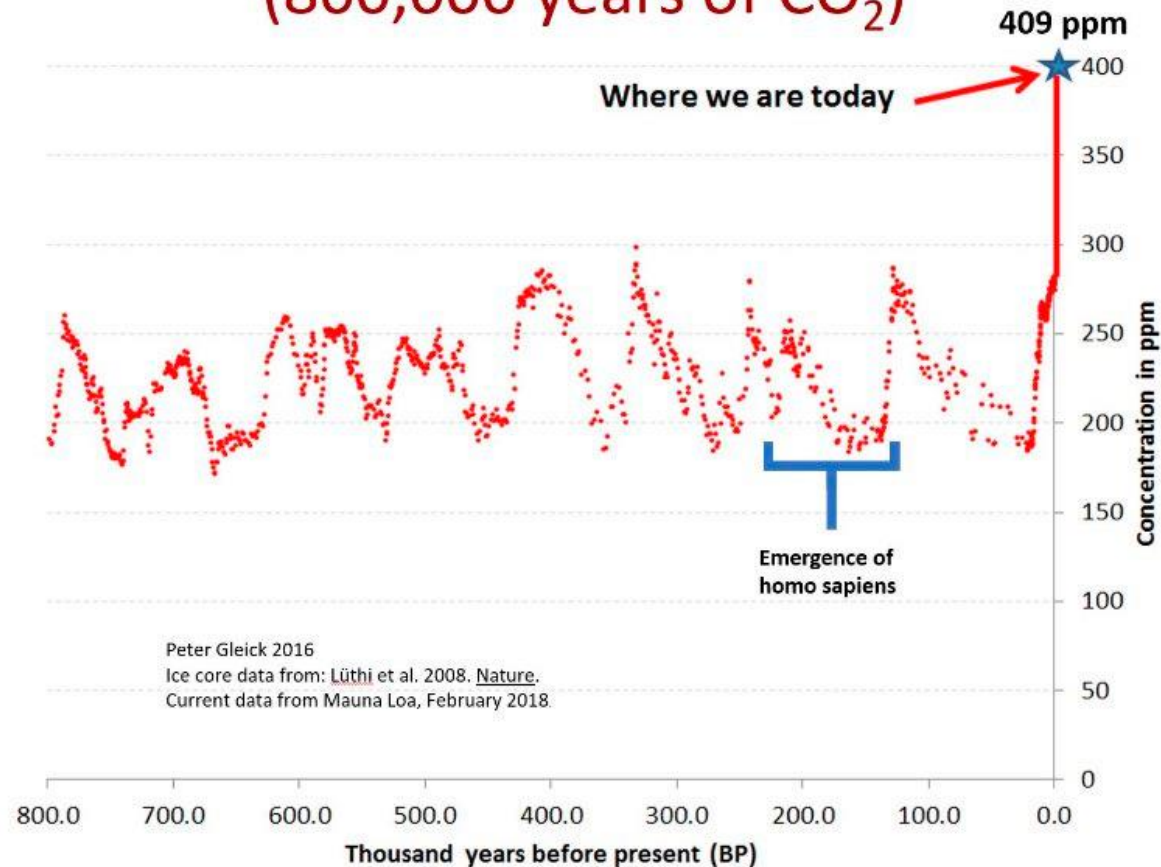
consum kcal/dia.càpita



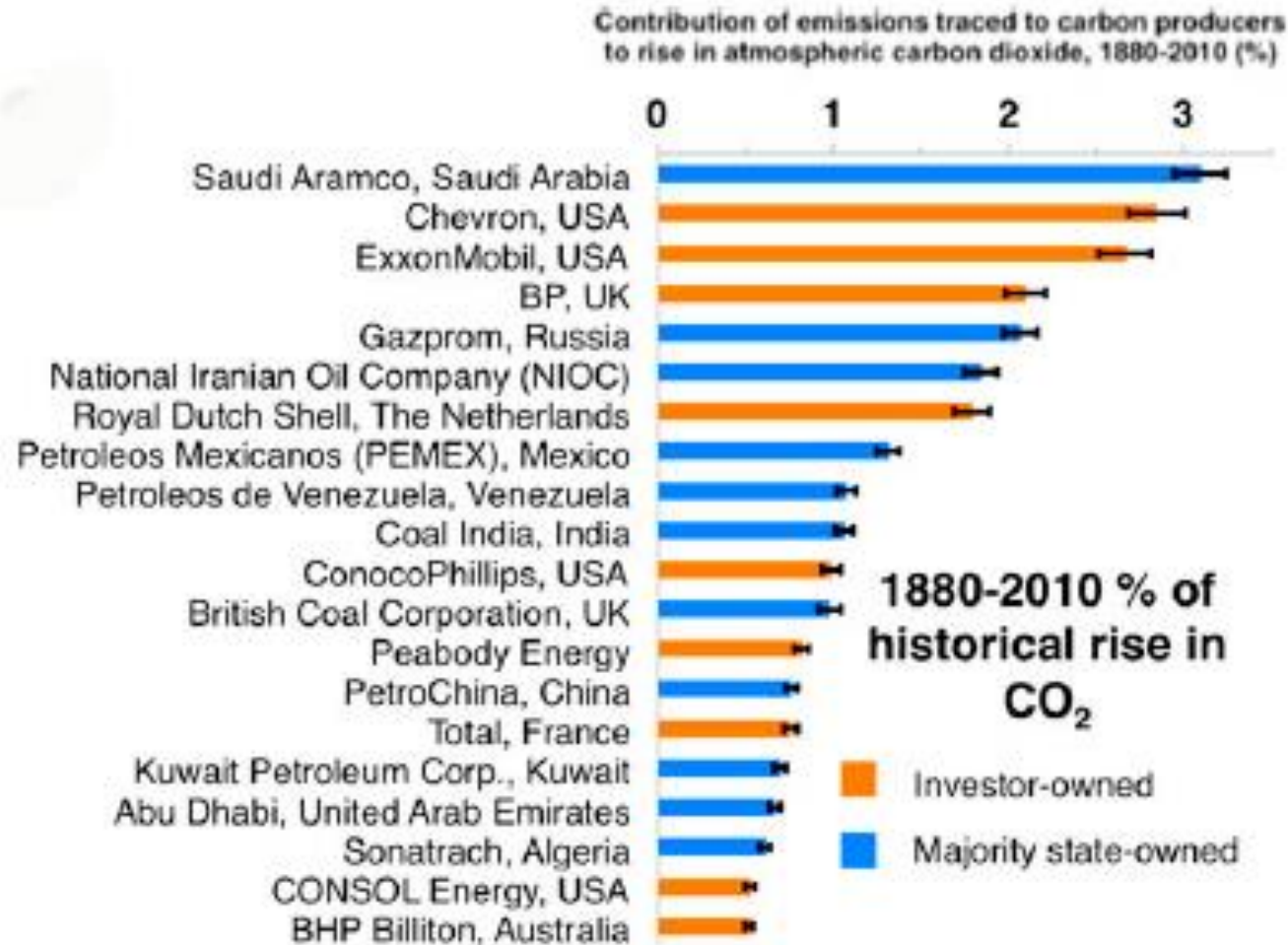


Els humans estem fent un canvi històric en la vida de la Terra

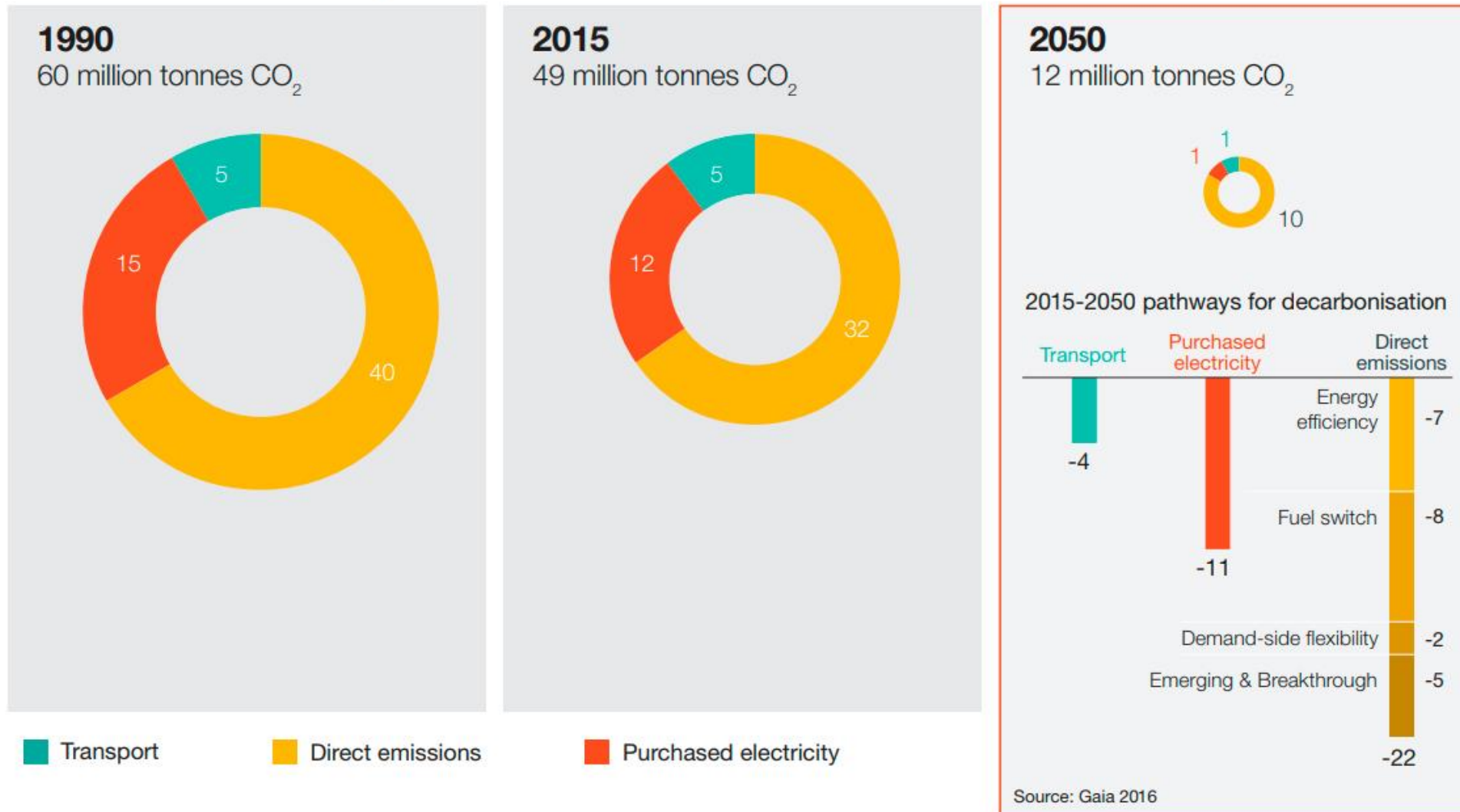
Humans Are Changing the Climate
(800,000 years of CO₂)



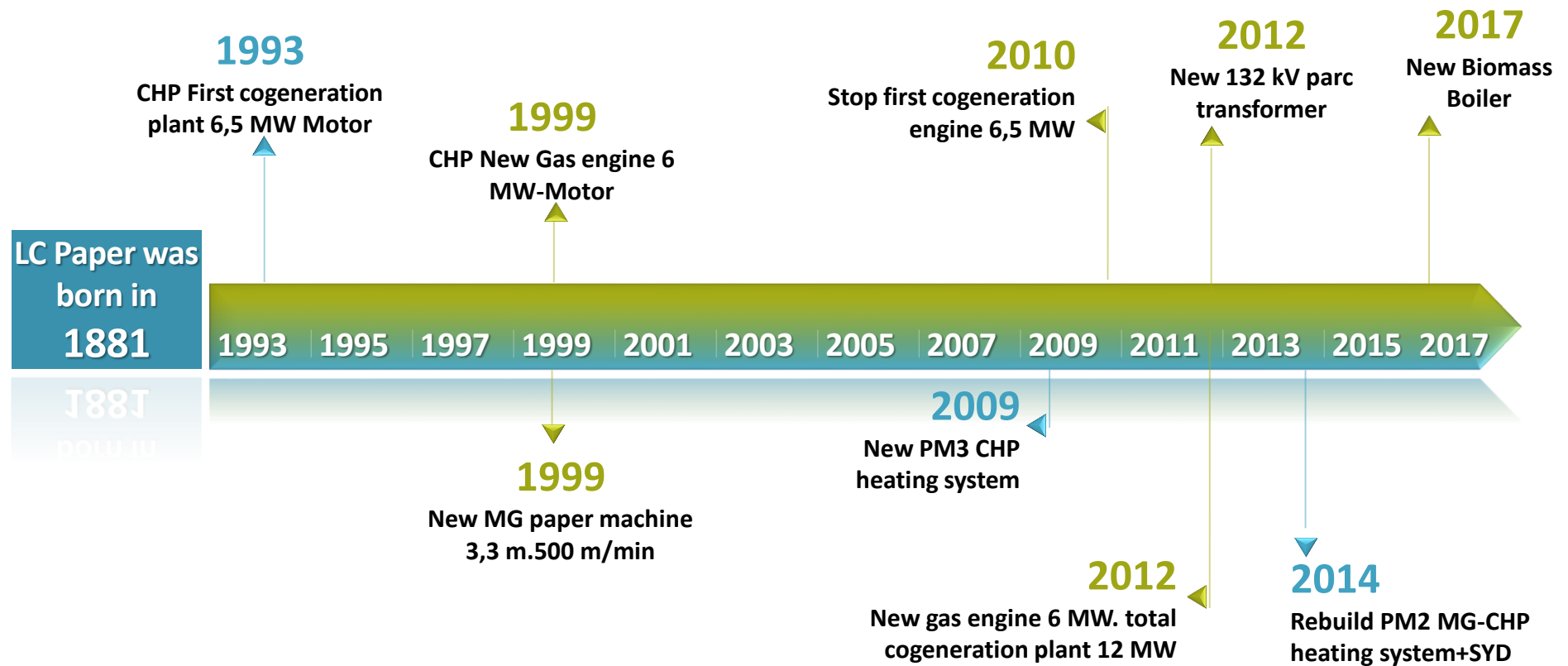
Responsables del 28% del canvi climàtic



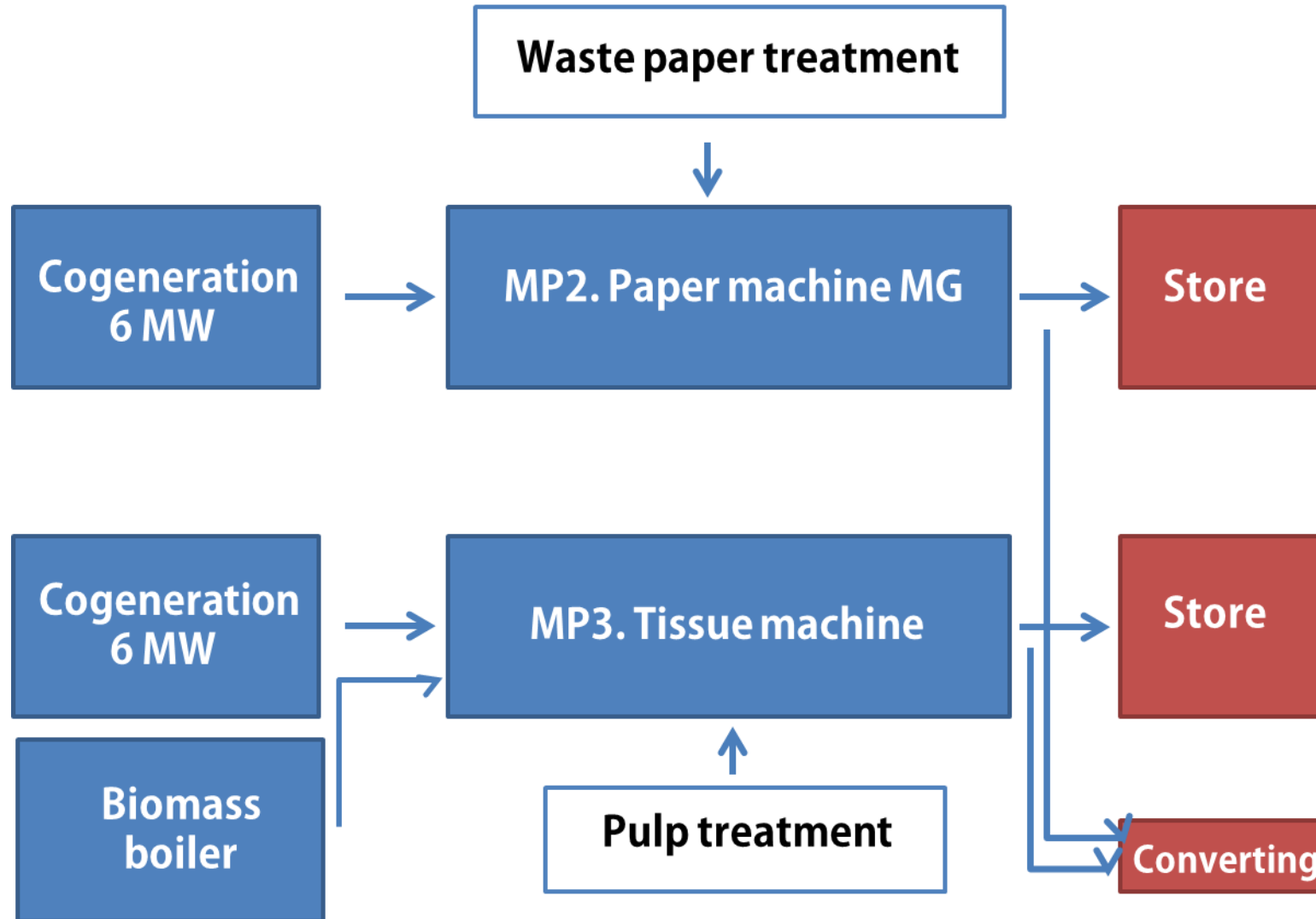
Graph 02: **CO₂ emissions reduction and decarbonisation pathways for the European forest fibre and paper industry by 2050**



Evolució energètica de LC Paper

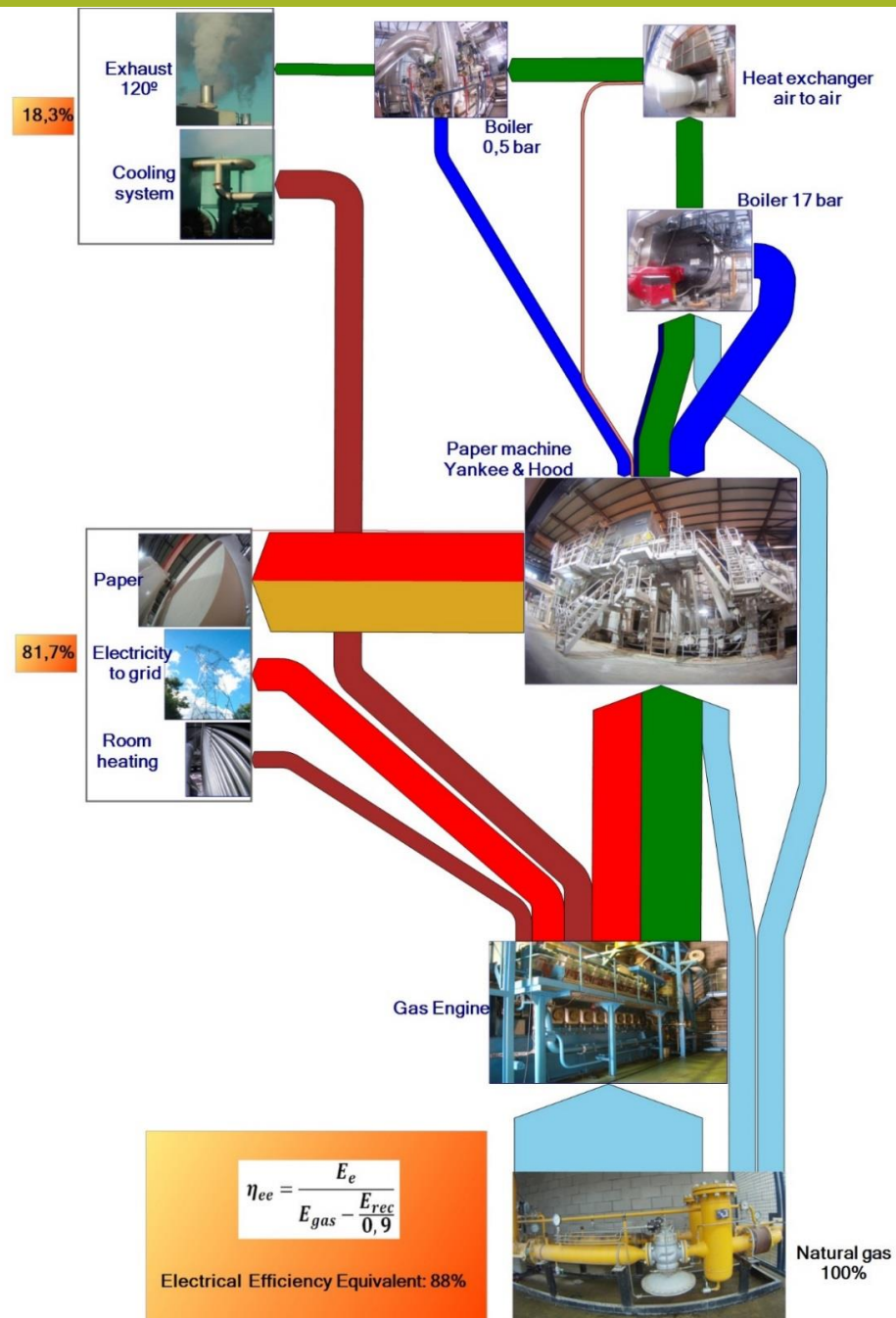


Production layout

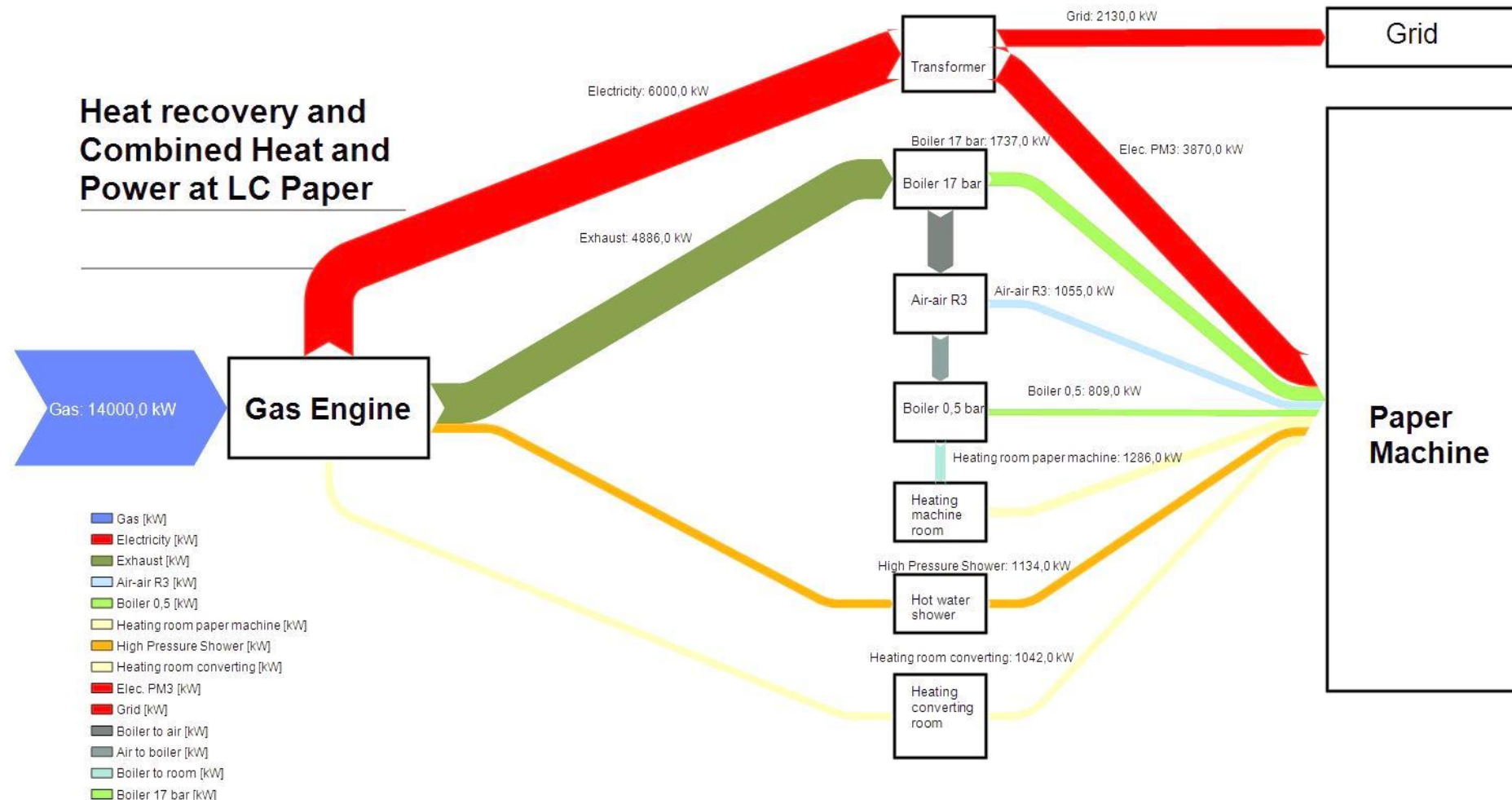


Motor de gas de 6 MW

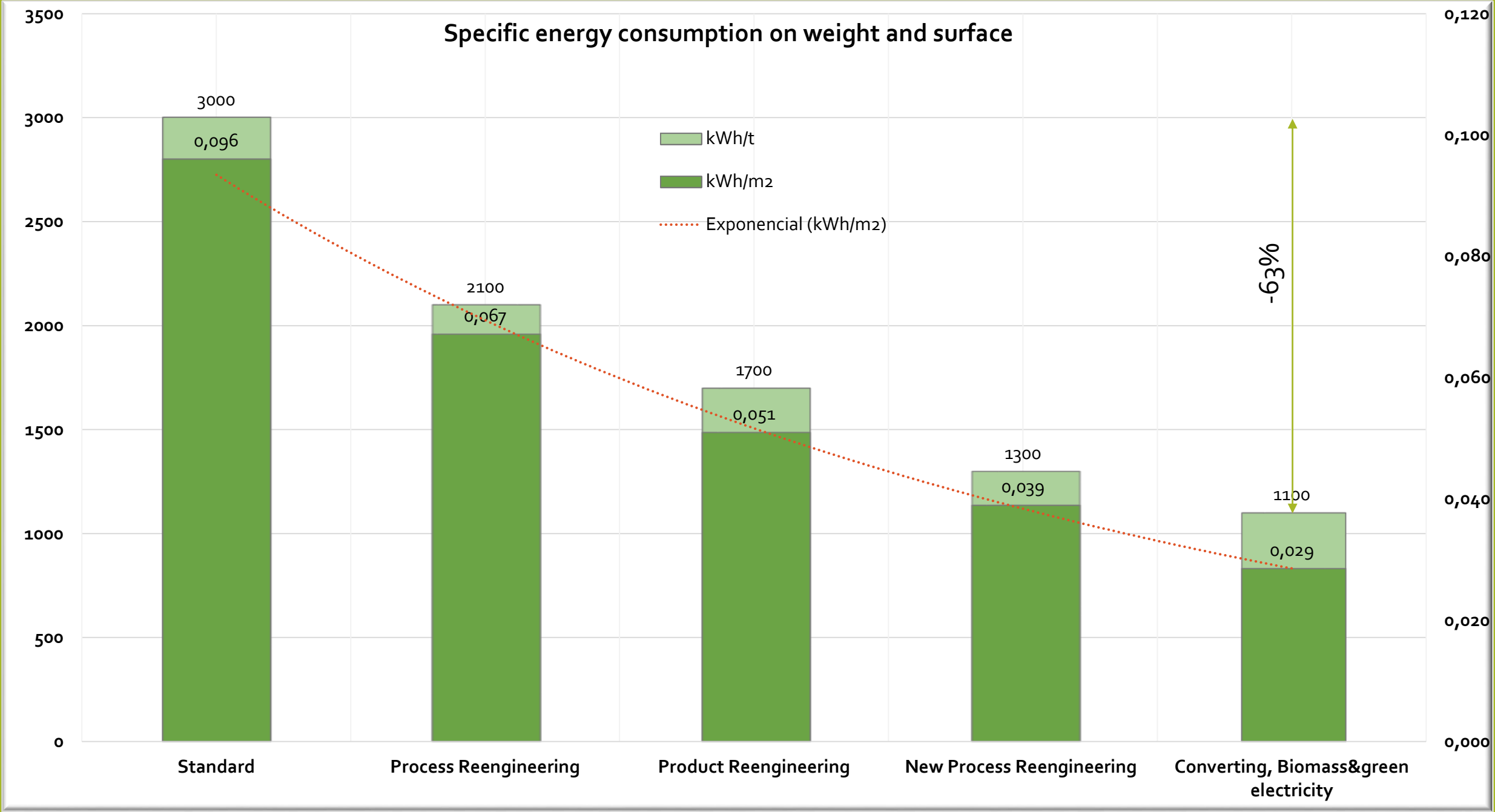




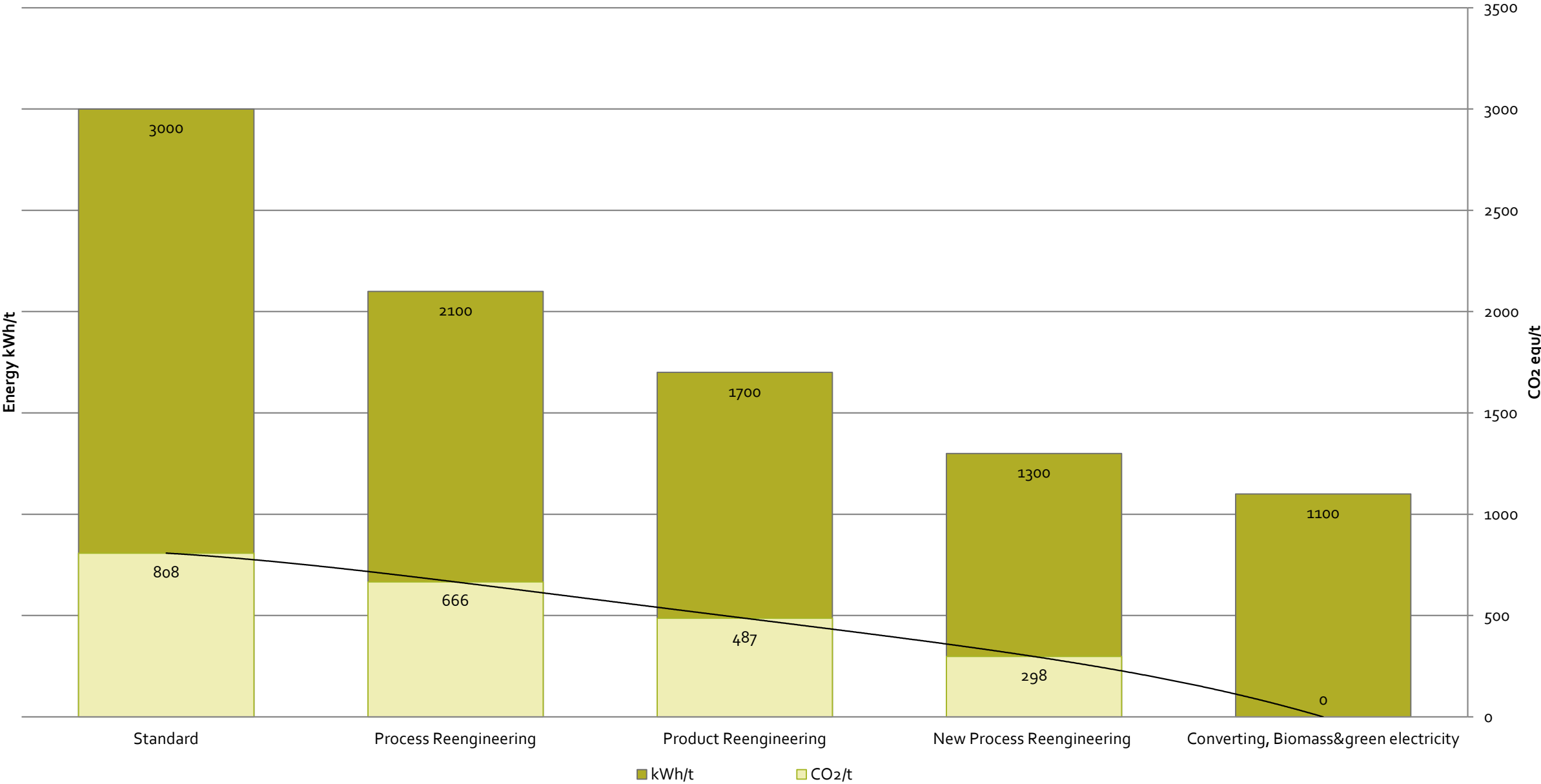
Sankey aprofitament cogeneració LC Paper



Equivalent Electrical Performance = 88%



Energy consumption versus CO₂ MP2



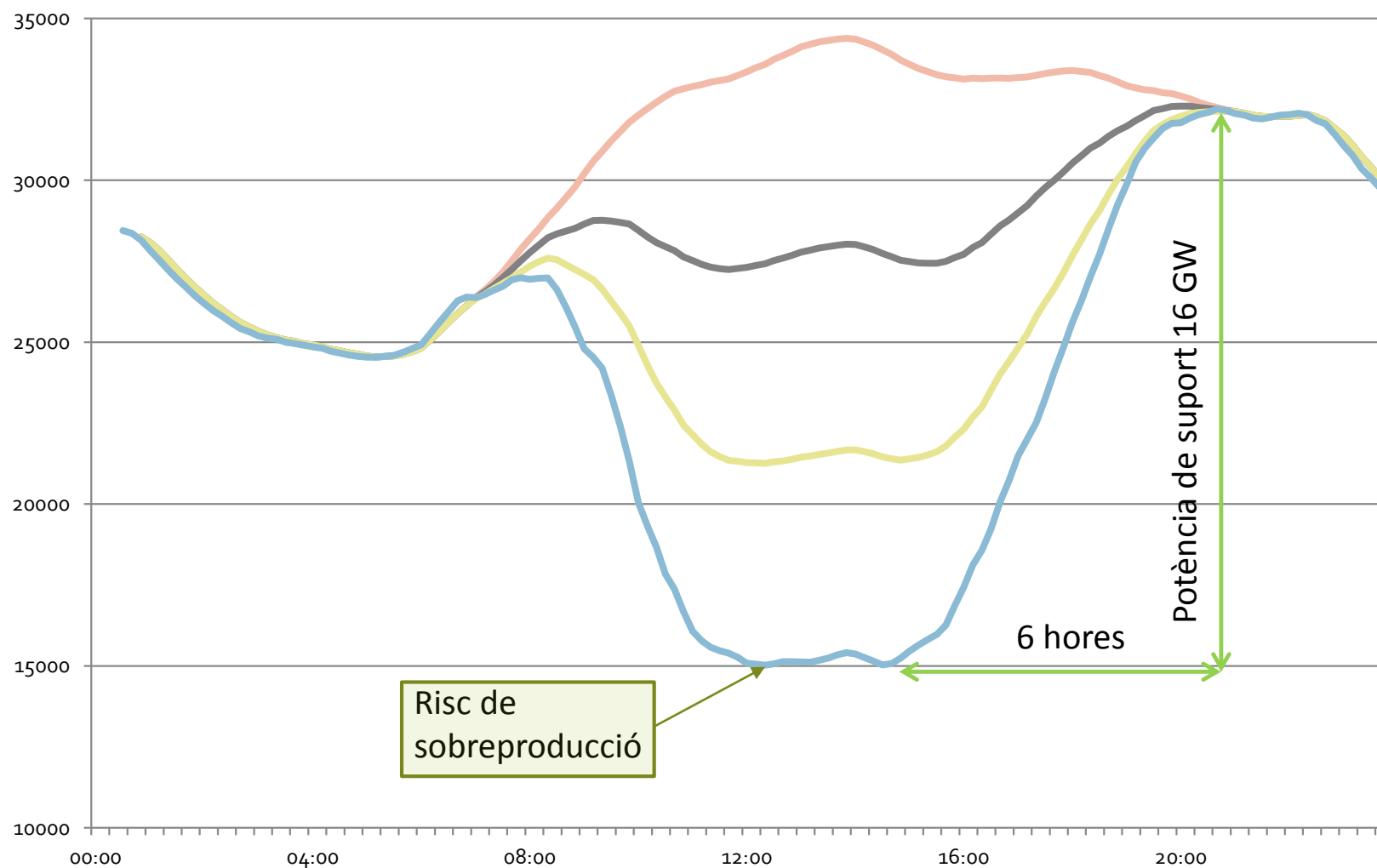


CO₂

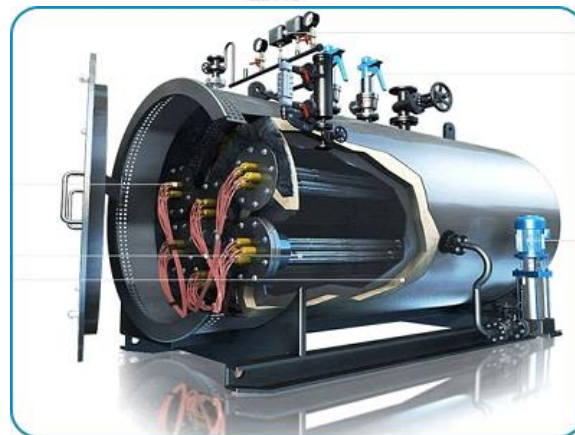
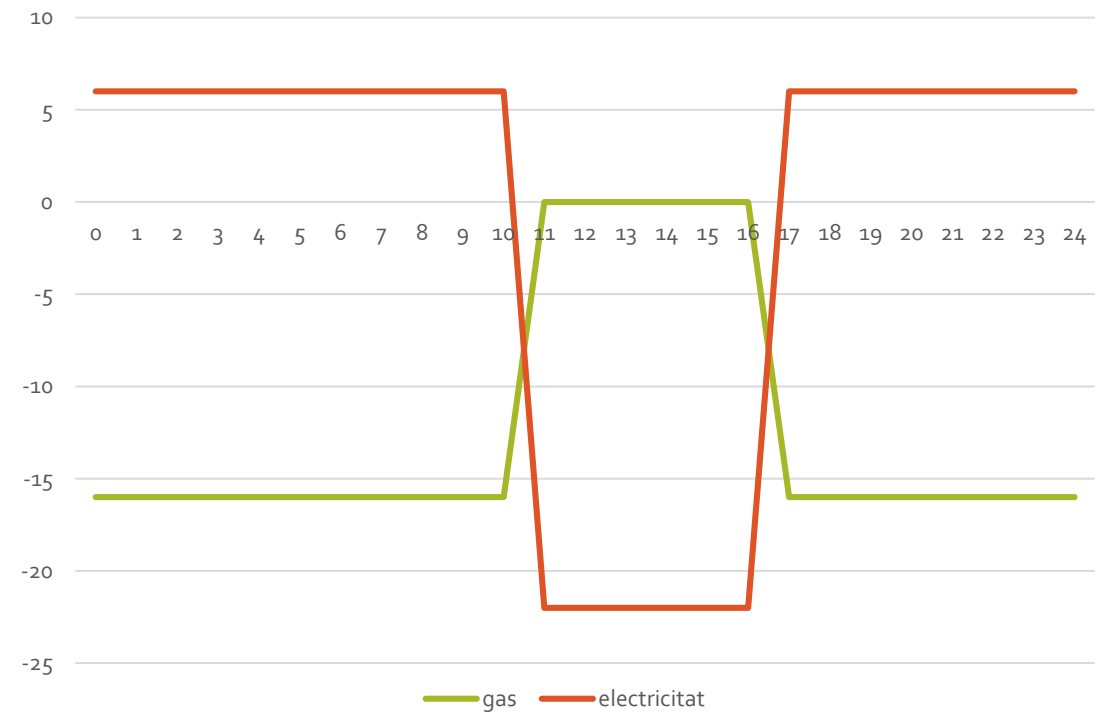
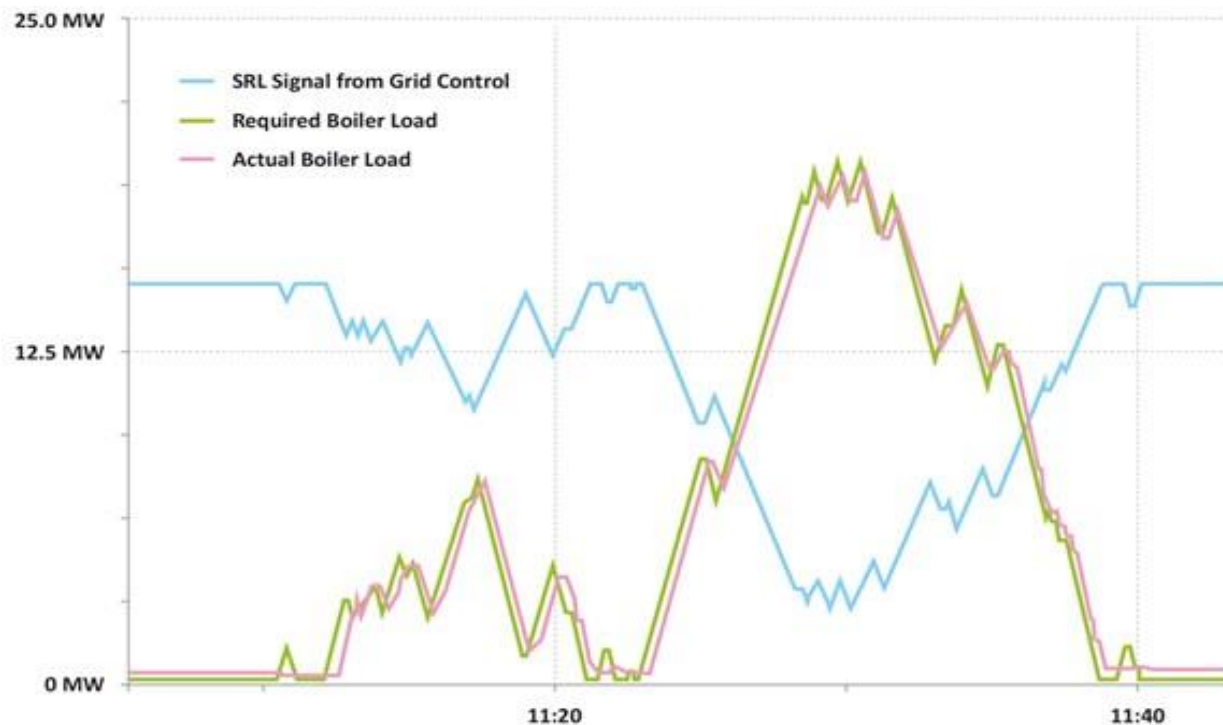
L'estalvi energètic ha propiciat un estalvi important en CO₂ generat en la fabricació de paper tissú. A partir d'un consum baix ha estat possible eliminar del tot el gas amb la caldera de biomassa i comprar l'electricitat verda per aconseguir un valor de petjada al carboni en fabricació de... Zero!

MP2	kWh/t	CO ₂ /t
Standard	3000	808
Process Reengineering	2100	666
Product Reengineering	1700	487
New Process Reengineering	1300	298
Converting, Biomass&green electricity	1100	0

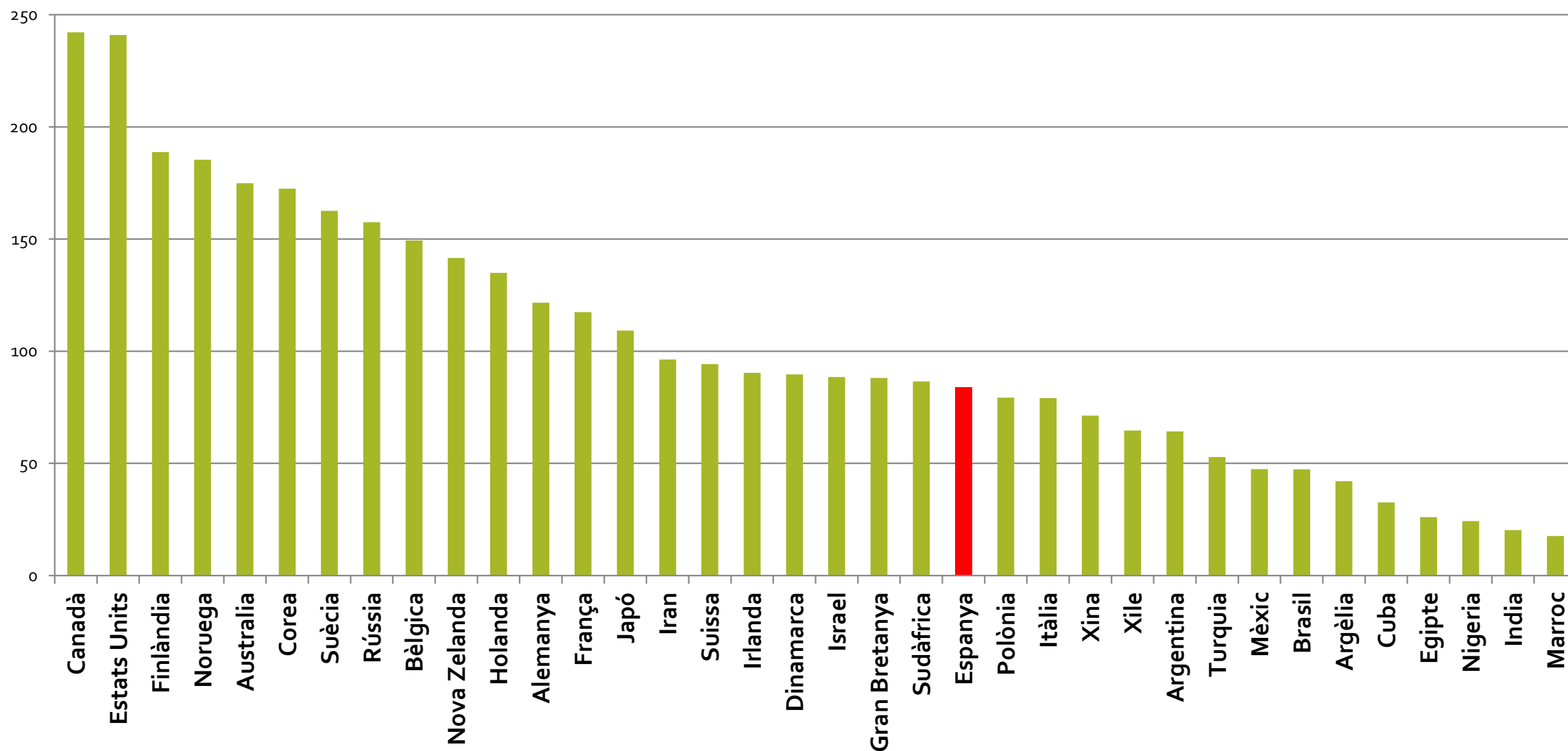
La corba de l'ànec potencial Espanya



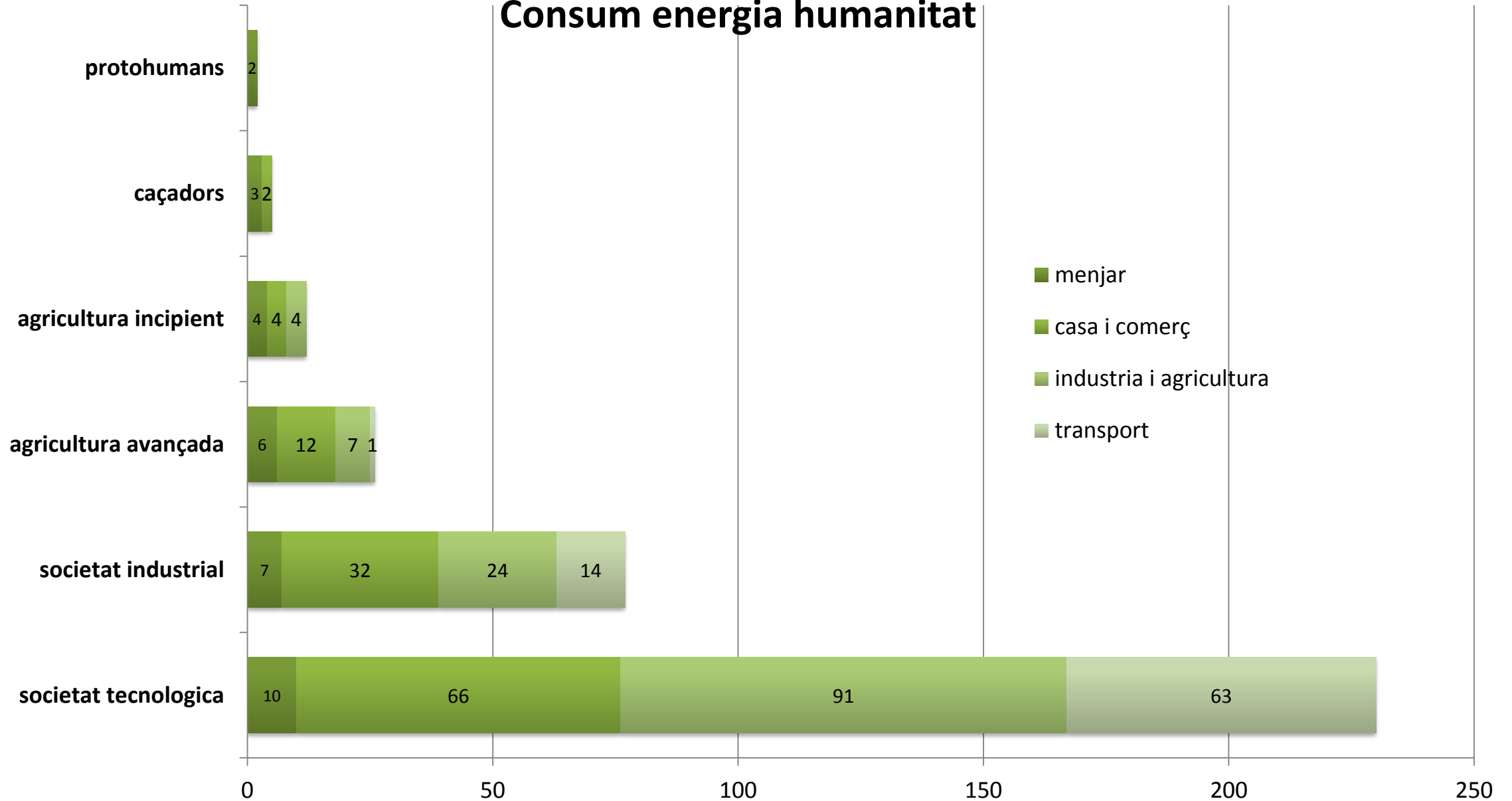
Regulació secundària



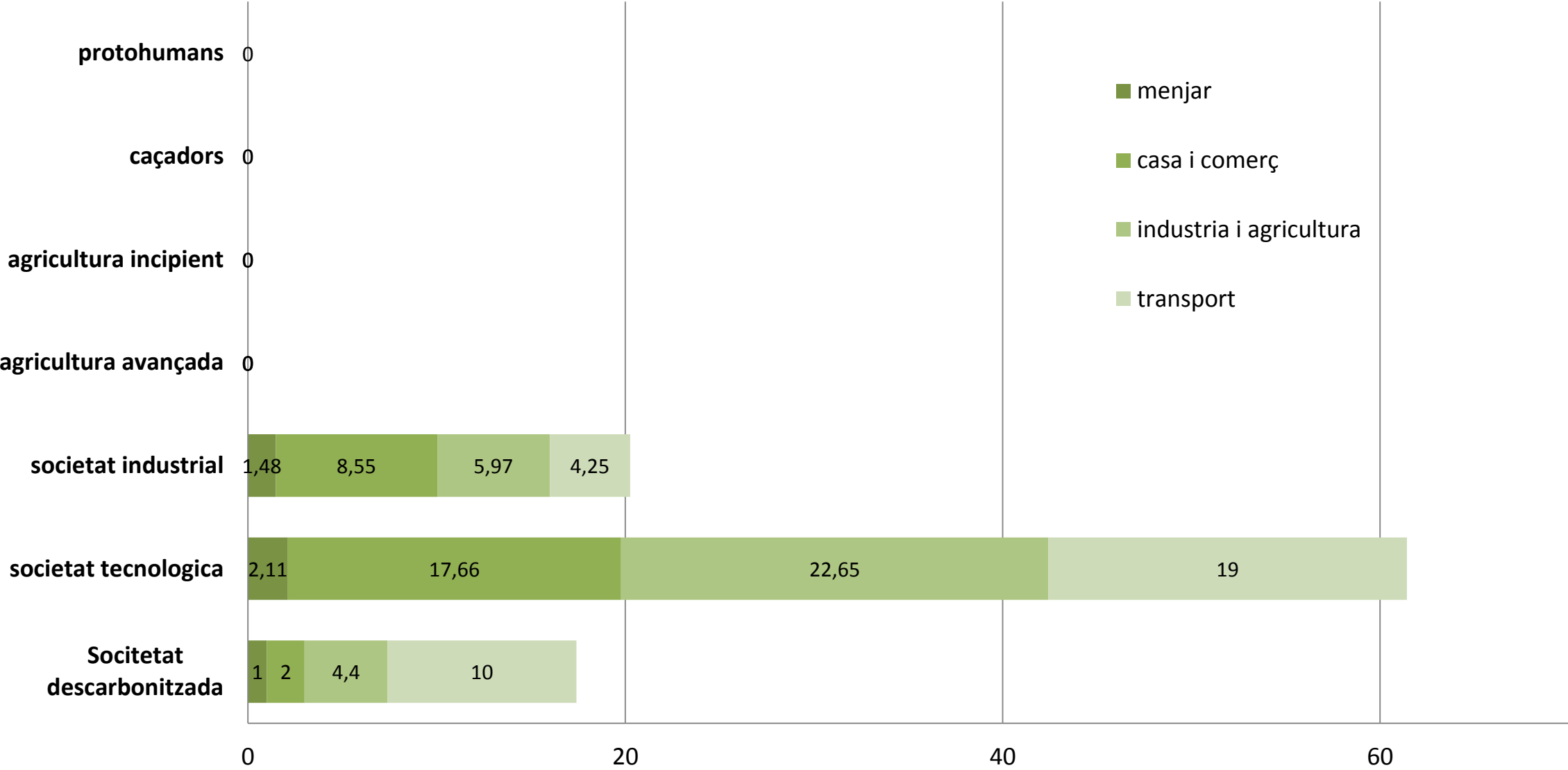
Energia/d.h



Consum energia humanitat



CO2 equivalent en la història



Distribució del consum energètic personal

