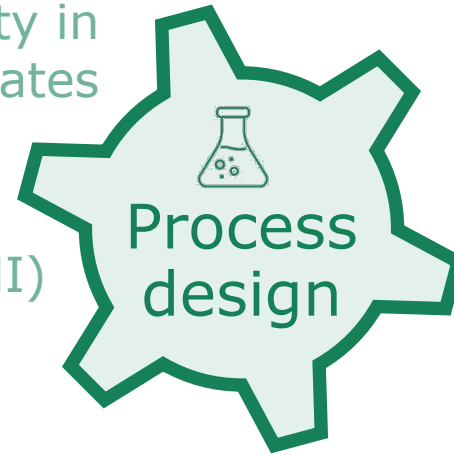


# Sustainability in pharma manufacturing and VTU

Sustainability in development gates

Process mass intensity (PMI)



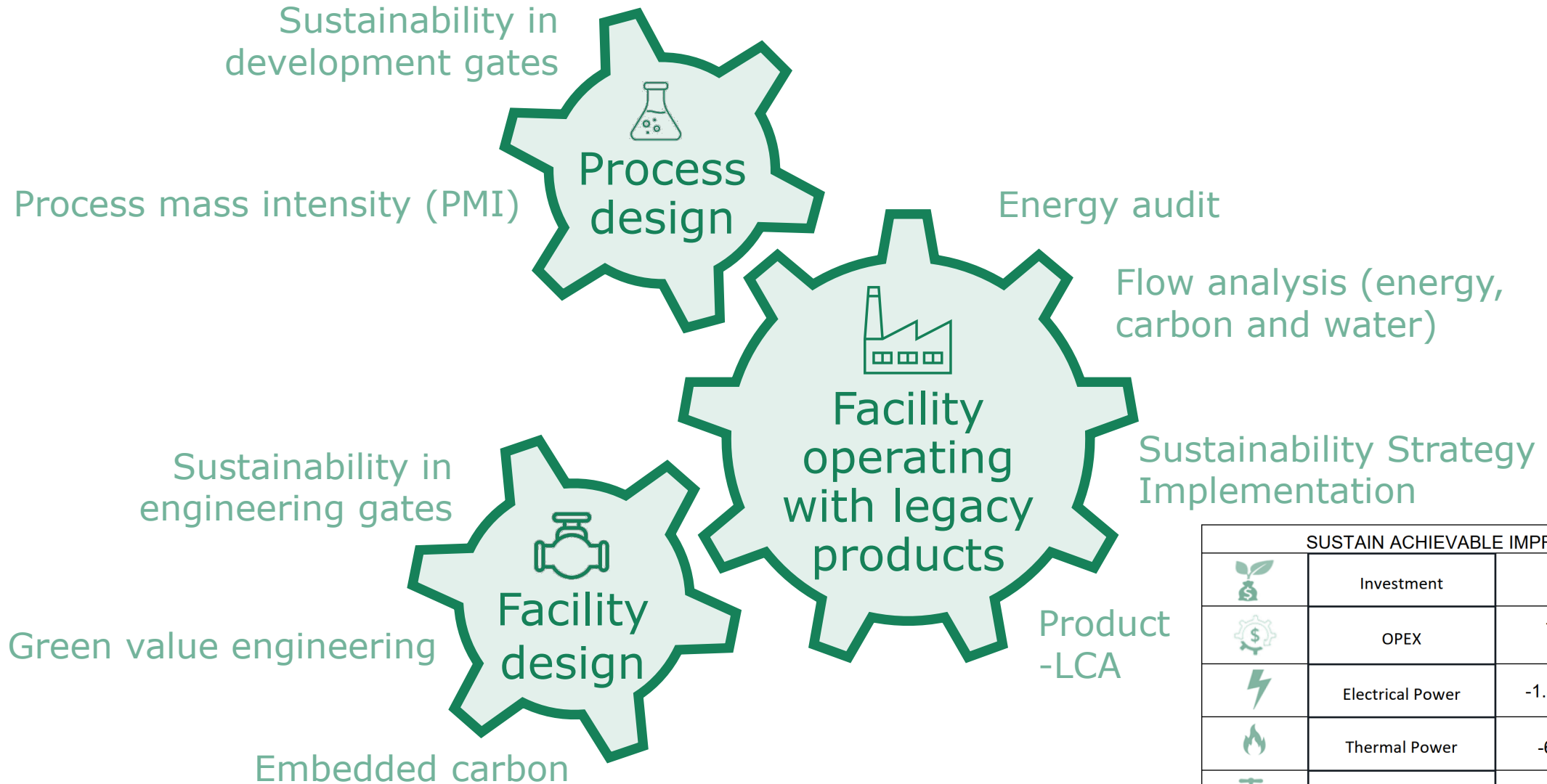
Sustainability in engineering gates

Green value engineering



Embedded carbon

# Sustainability in pharma manufacturing and VTU



SUSTAIN ACHIEVABLE IMPROVEMENT		
	Investment	3.151.443,00 €
	OPEX	-778.727,00 €/year 4 years payback
	Electrical Power	-1.504.369,00 kWh/year
	Thermal Power	-6.223.084 kWh/year
	Water Saving	-30.771 m <sup>3</sup> /year
	CO2 Impact	-1.767.231 kgCO <sub>2</sub> eq/year