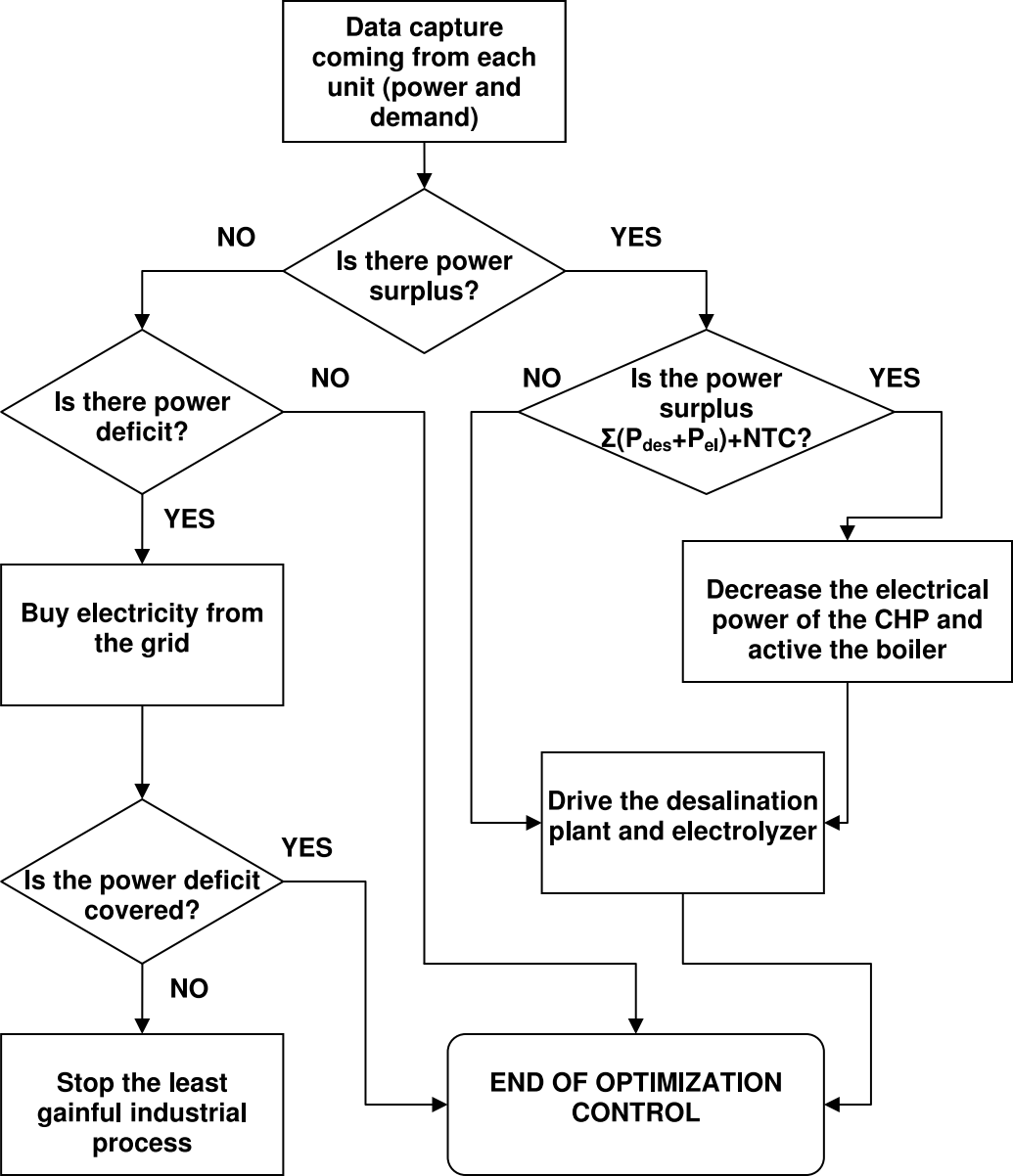
Data capture coming from each unit (power and demand)
Is there power surplus?
NO
YES
Is there power deficit?
NO
YES
Buy electricity from the grid
Is the power deficit covered?
YES
NO
Stop the least gainful industrial process
NO
Is the power surplus Σ(Pdes+Pel)+NTC?
YES
Decrease the electrical power of the CHP and active the boiler
Drive the desalination plant and electrolyzer
END OF OPTIMIZATION CONTROL