# Intro Project Problematic:

1. Why does Eni FR need bio methane?
   1. Client Demand
   2. Green Offer (GO gaz have a high price)
   3. New Green Certificate Law

# Basic general knowledge:

1. What is an option? Call/Put
   1. What is an underlying contract?
2. What is a spot/future/forward contract in the equity market? What is a swap?
   1. Payoff of these products
   2. Spot / Future relationship
   3. Spot / Future diffusion (GBM, Black diffusion, OU, diffusion solutions with Ito’s Lemma)
3. How are future contracts in the gas markets different than in other markets?
4. What is the price of anything?
   1. Time value of money
   2. Expected value -how much would you pay to play this game?
   3. IV vs EV of an option
5. Price a call option with a binomial tree (American vs European)
   1. Trinomial tree for mean reverting processes

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# Swing Option:

1. Relationship price and demand
2. Why do I need flex?
3. How does a storage work?
4. Define a call swing option / relationship to storages (1 ex is like an American)
5. Bang bang assumption
6. Trinomial tree to price