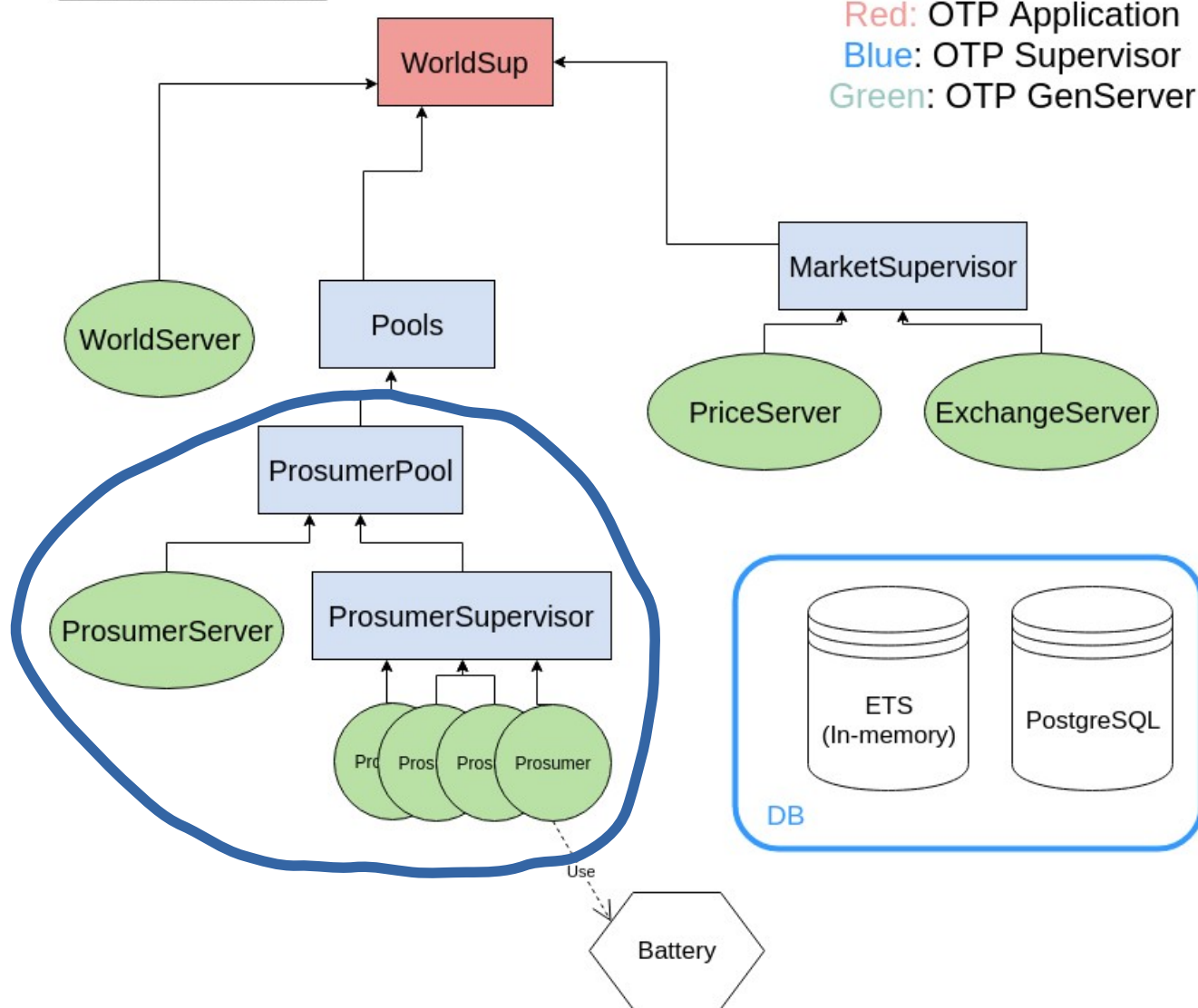


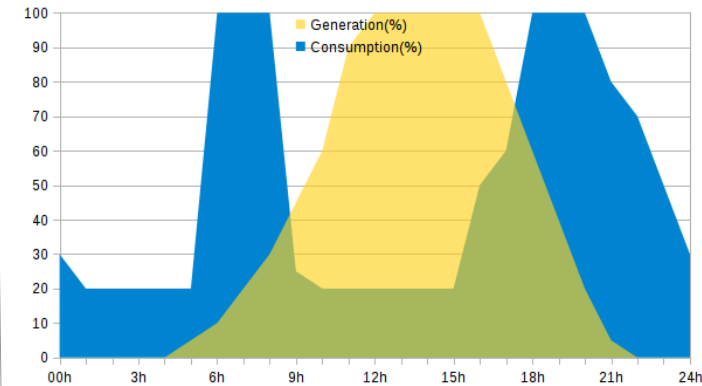
OTP Architecture



MVP status

Prosumer features

- No real sensor/HW reading
- Simulation of (charging, consumig e-, purchasing kwh from market...)
- Has *cache* to keep balance of purchased electricity from the market
- If *current_storage* < 30% & *cache* < *current_storage* ---> Purchase more power from the exchange.
- If *cache* > 0 --> consume from cache
- Simulated Hour-to-%PV(W) power curve:



Features

- New *Transaction (TR)*
 1. Find Prosumers with > 30% storage
 2. Check price from *PriceServer*
 3. Let *ExchangeServer* create the new transation (later at blockchain level)
 4. Save new TR to DB
 5. Increment buyer's cache. Decrement seller's storage.
- *PriceServer*: determine **€/kwh** based on global supply, demand, and external grid.
- DB. Save Transactions, price evolution, generation history, etc