Battery + capacity\_mAh: Int + chargeLevel: Float A CS is plugged once in the electric grid has Do they have a price attribute??? 0..n**〈〉** Socket CS has + connector: String + socketCount: Int acquires from (is a usage point on the electricity network) + location: Location + nominalPrice: Float + maxPower: Float + currentPower: Float + free: Bool + userPrice: Float CPO 0..n owns + name: String for manages has 0..n**〈〉** 0..n CPMS eMSP DSO Booking 0..n prices and mix info 0..n 0..n registers + name: String + price: Float + startDate: Date APIs 0..n 0..n + endDate: Date + isActive: Bool 0..n has **Energy Mix** holds 0..n + oilAndGas: Float + ccgt: Float + coal: Float User + nuclear: Float + userName: String + hydroelectric: Float + email: String Aggregation + otherRenewableSources: Float

(All sum up to exactly 1)

+ password: String + paymentMethod: String

Vehicle MUST not be associated 1:1 to user:

- the vehicle might be on a rent

- the user might want tocharge a vehicle which he does not own (see "parent's car")

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Only one booking is active at any given time! (Active -> charge ongoing for it)