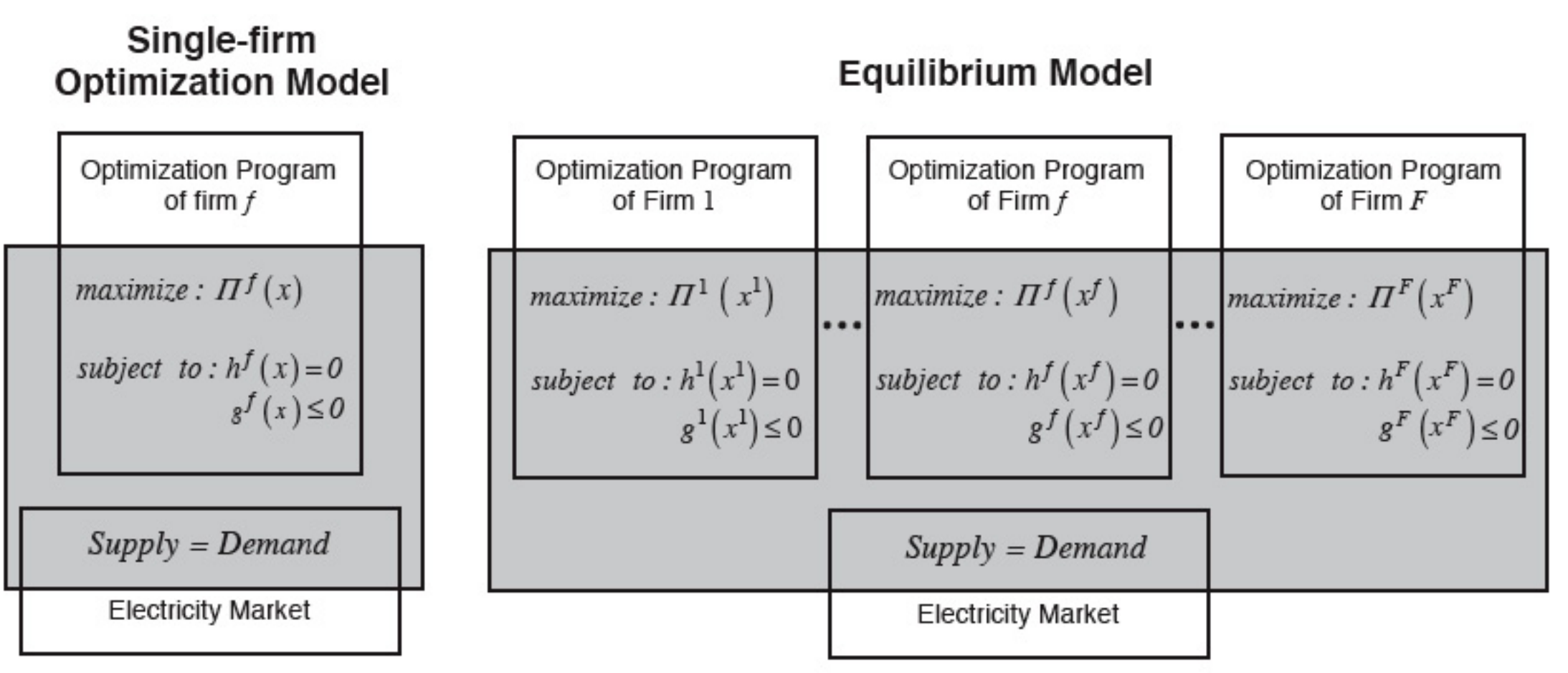
Single-firm
Optimization Model
Optimization Program
of firm f
maximize : Π^f (x)
subject to : h^f (x) = 0
g^f (x) ≤ 0
Supply = Demand
Electricity Market
Equilibrium Model
Optimization Program
of Firm 1
maximize : Π^1 (x^1)
subject to : h^1 (x^1) = 0
g^1 (x^1) ≤ 0
Optimization Program
of Firm f
maximize : Π^f (x^f)
subject to : h^f (x^f) = 0
g^f (x^f) ≤ 0
Optimization Program
of Firm F
maximize : Π^F (x^F)
subject to : h^F (x^F) = 0
g^F (x^F) ≤ 0
Supply = Demand
Electricity Market