Single-firm Optimization Model

Equilibrium Model

Optimization Program

of Firm f

Optimization Program of firm <i>f</i>		
maximize : $\Pi^f(x)$		
subject to: $h^f(x) = 0$ $g^f(x) \le 0$		
Supply = Demand		
Electricity Market	T	

maximize:
$$\Pi^1(x^1)$$

subject to: $h^1(x^1) = 0$

$$g^1(x^1) \le 0$$

Optimization Program

of Firm 1

Supply = Demand

Optimization Program of Firm F maximize: $\Pi^f(x^f)$ subject to: $h^f(x^f) = 0$ $g^f(x^f) \le 0$ maximize: $\Pi^F(x^F)$ subject to: $h^F(x^F) = 0$ $g^F(x^F) \le 0$

Electricity Market