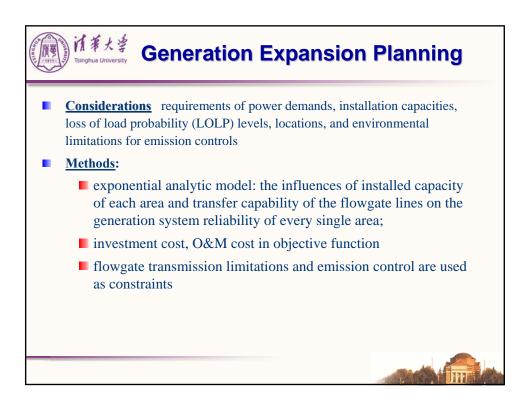
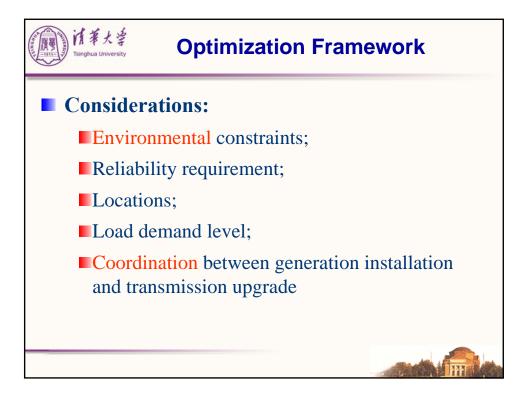


## Generation Expansion Planning Based on Multi-area Reliability Exponential Analytic Model and Emission Control

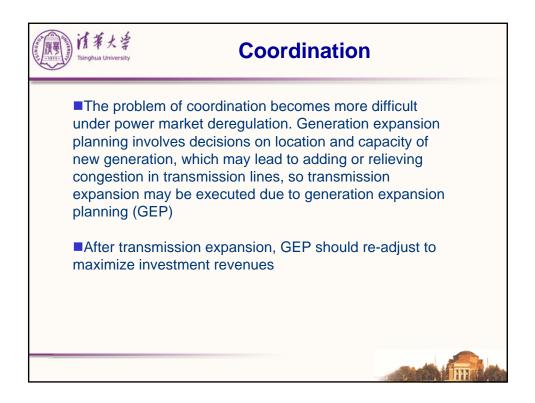


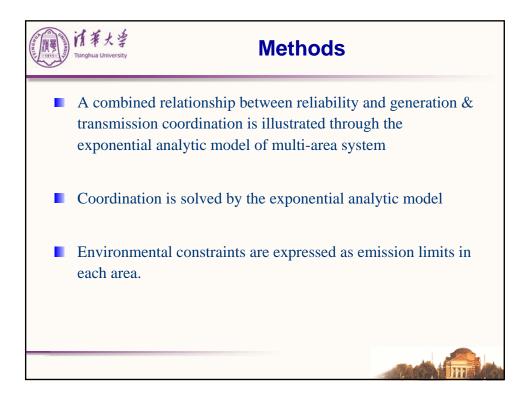
Lin Cheng Tsinghua Univ.

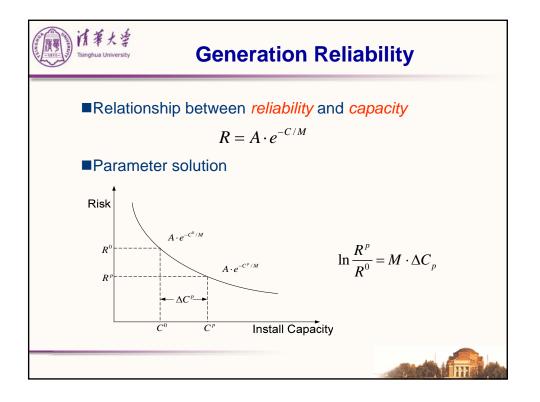


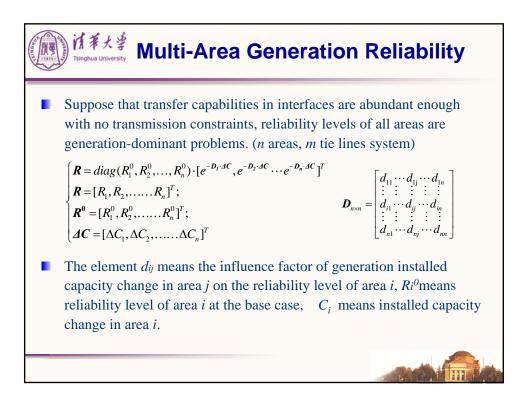


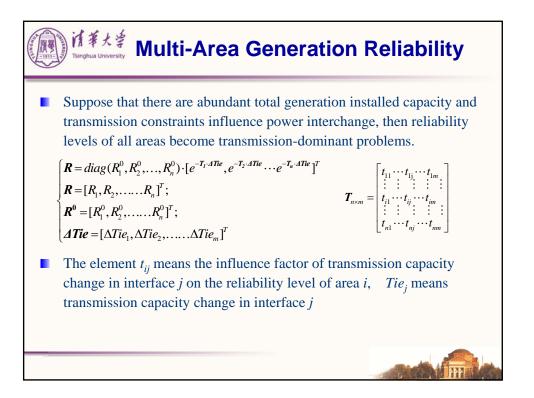


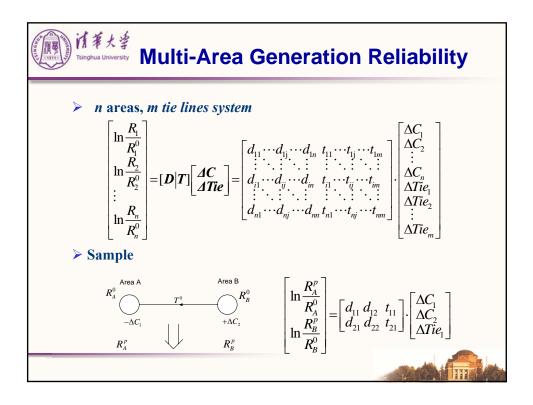


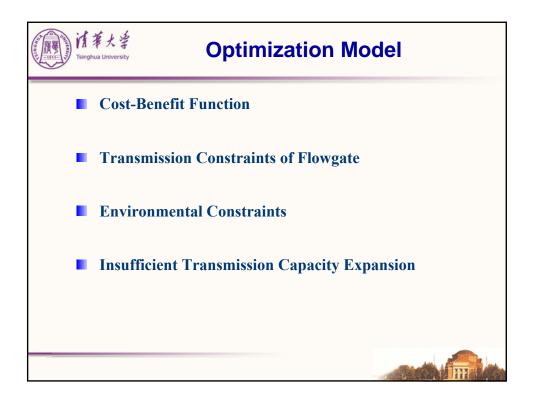


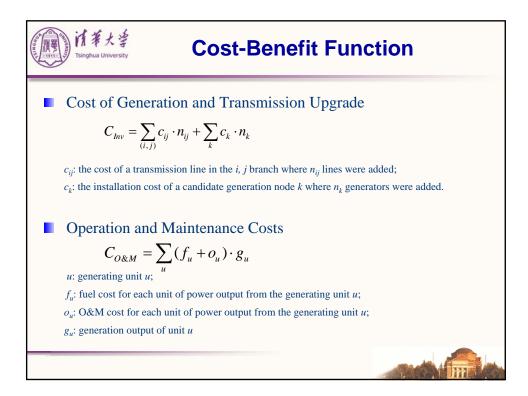


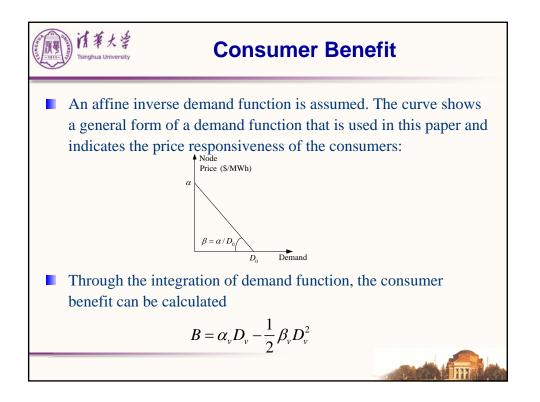


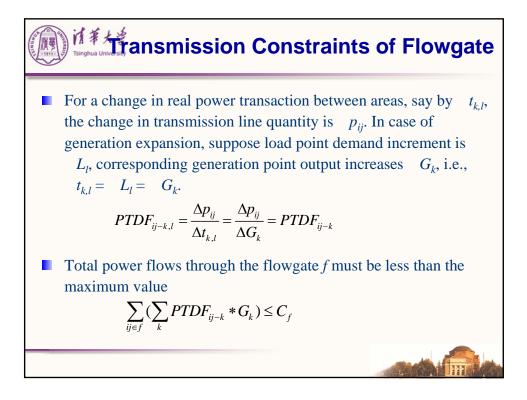


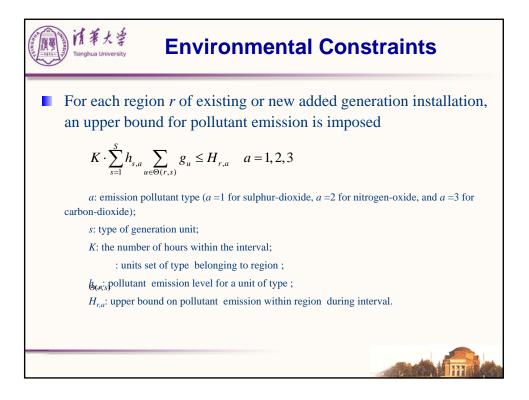


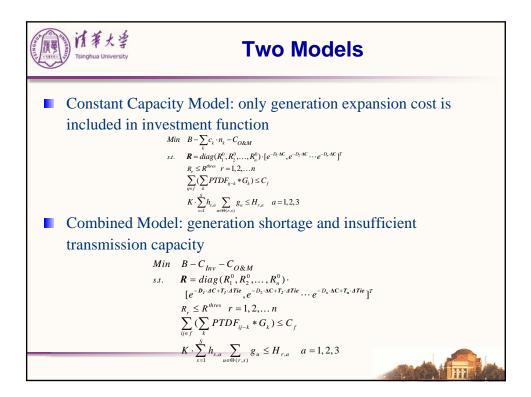


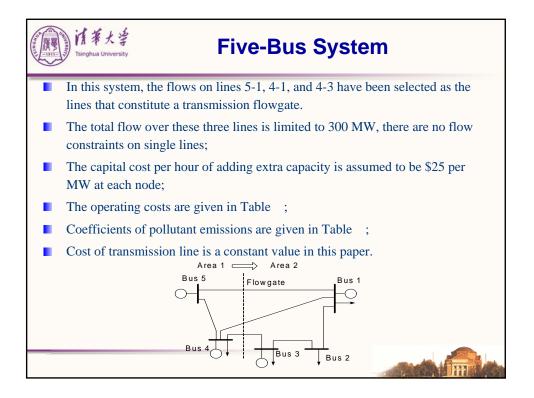












	清華大学 Tsinghua University System Parameters							
TABLE I Generator Data								
		Generator	r Capacity(MW)		1 Cost(\$/MWh)			
		Bus 1	200		30			
		Bus 3	520	25				
		Bus 4	600	10				
		Bus 5	210		15			
Pollutant	Coel	Coef	Upper bounds for	r Pollut	ant Emission	Bounds (*10 <sup>3</sup> kg/yr)		
Pollutant	Coal			as	Bus 1	Bus 3	Bus 4	
SO <sub>2</sub>	5.84	1		)	50	50	50	
NO <sub>X</sub>	2.93		2.49 0.0	03	25	19	20	
CO <sub>2</sub>	890		753 44	18 15000		12000	12000	

