

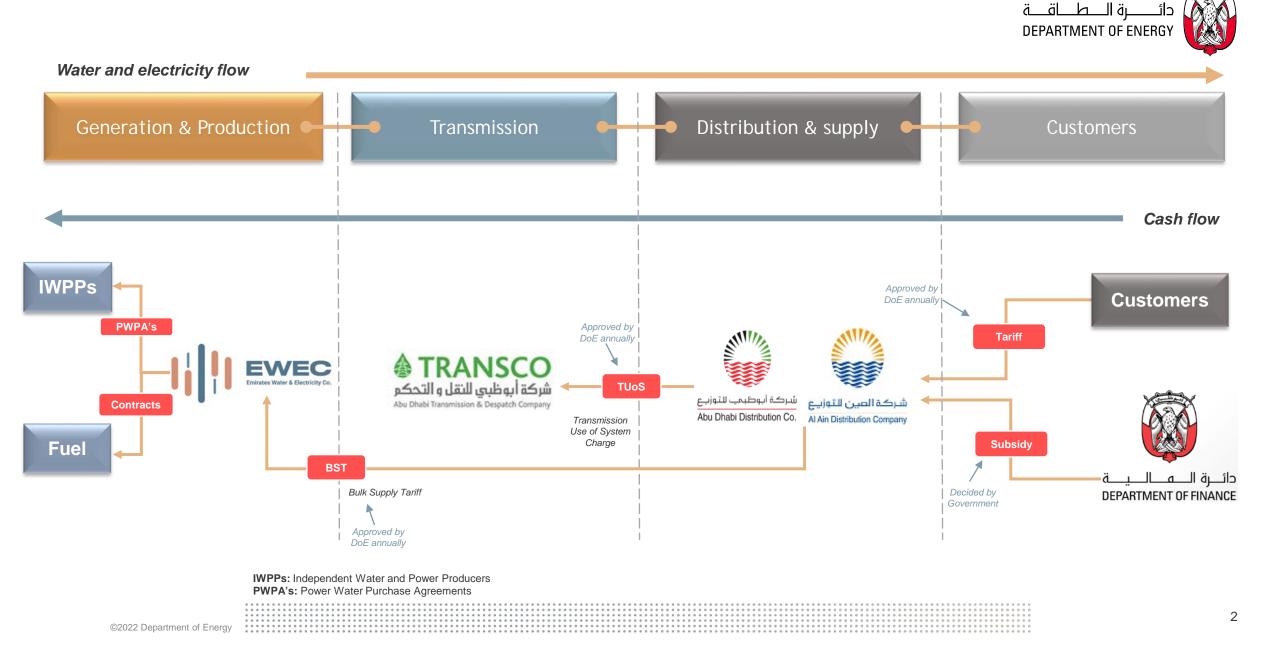
# Price Controls for Utilities Businesses in Abu Dhabi

Arab Electricity Regulators Forum

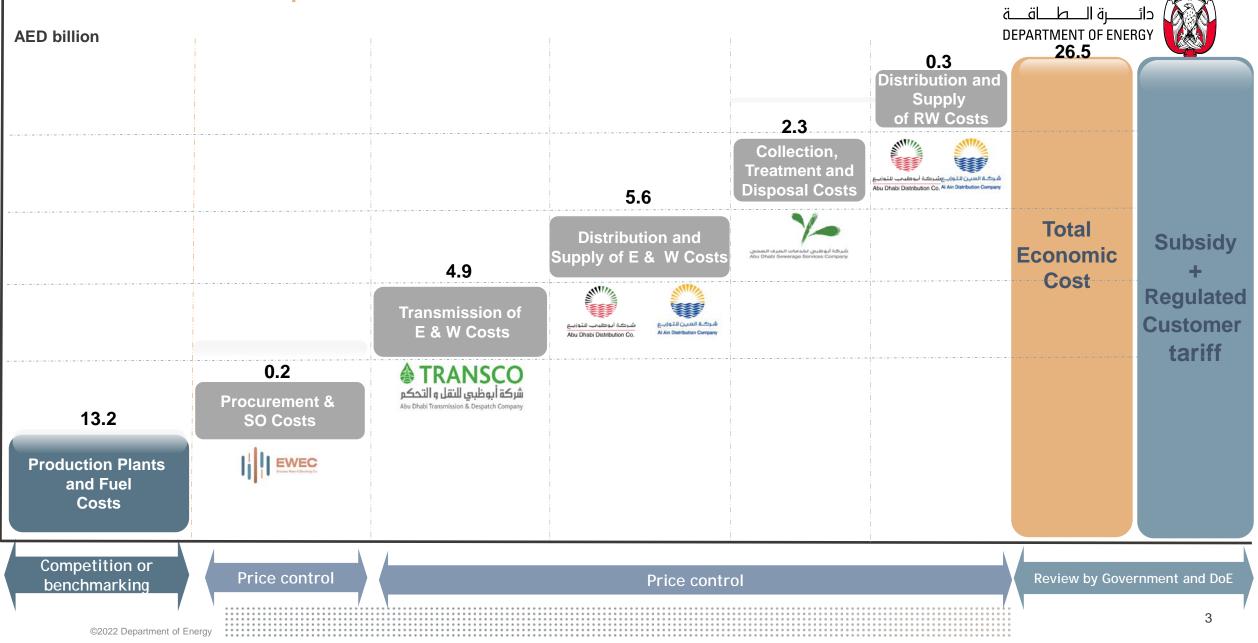
December 2022



### Water and Electricity Supply chain



### What Costs are priced Controlled?



### Objectives of Setting Revenue Cap for Energy Sector in Abu Dhabi





Ensuring Sector Companies obtain financing for their operations, and attractive returns for investors

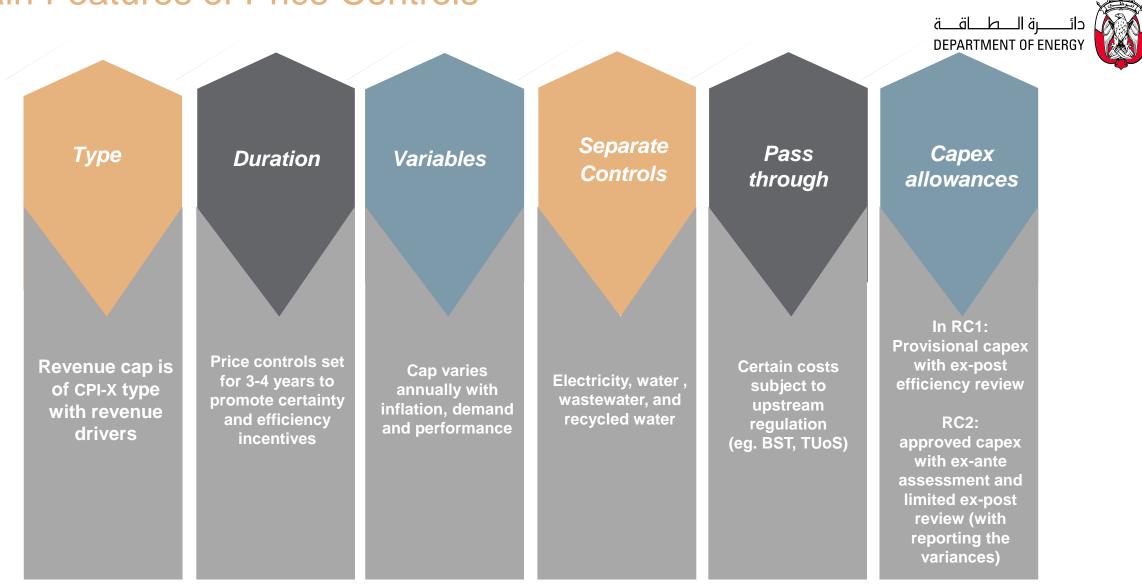


Motivating companies to improve the service provided to customers by setting performance incentives (bonuses and penalties).



Ensuring that customers are getting fair costs/prices for their services in addition to service reliability and security of supply.

### Main Features of Price Controls

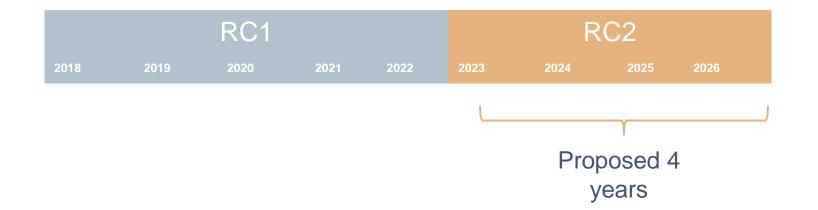


Ex-ante Capex Review: DoE capex review of the companies' planned schemes/projects, before capital expenditure is spent.

Ex-post Capex Review:: DoE capex review of companies' actual capital expenditure after it is spent.		
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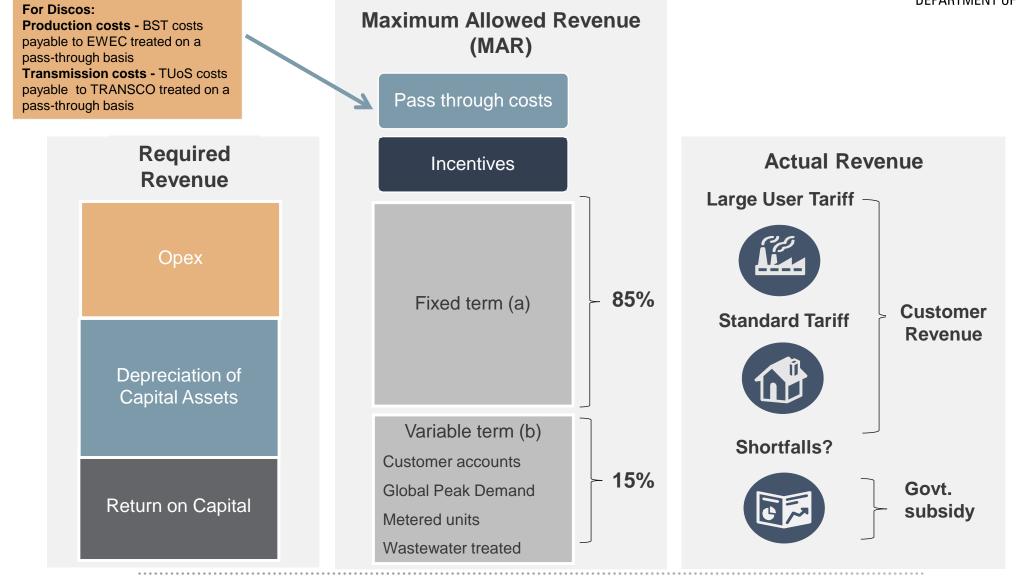






### **Price Controls Framework**







### Thank you.



### Why Price Controls and What they do?





Therefore, economics regulation (in the form of price controls) is needed to:

- ✓ control costs and prices;
- ✓ incentivize efficiency and performance, and;
  - ✓ Protect customer interest.

Set forward-looking maximum allowed revenue (MAR) for multiple-years based on efficient costs;

Provide incentives for cost efficiency and improvement in performance and service quality; and

Provide funding for efficient costs and flexibility to manage uncertainties.

New Price Controls The current price controls will end by the end of 2022 therefore a new price control is needed to set companies' maximum allowed revenue (MAR) for future years (2023-2026).

## Maximum Allowed Revenue for the Sector companies (MAR)

Price control set a limit or an upper ceiling for allowed revenues of monopolistic companies through a series of procedures and processes span for two years that includes an extensive exchangeable information/data with sector companies. Usually that happened through four consultation stages by releasing four consultation papers to the concerned and include their responses along with DoE analysis/decision into the final proposals which set the MAR for next period of price controls.

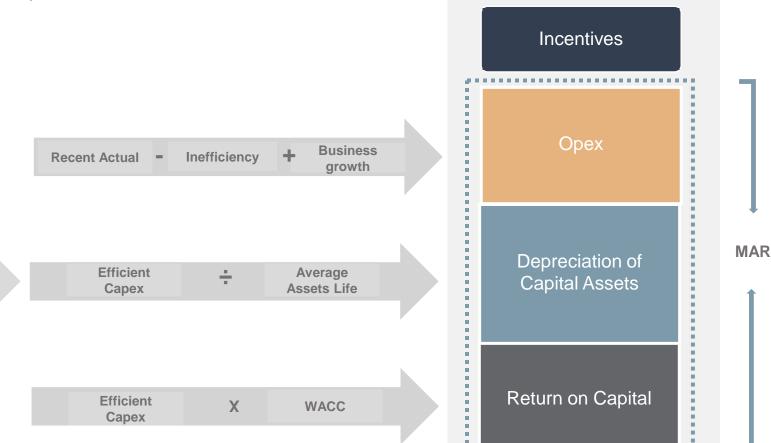
The Department of Energy performs the price controls as follows:

Assess the companies past operating expenses to set the efficient opex;

Review the capital projects budget plans for the upcoming years and evaluate them technically/economically as well as reviewing the efficiency of the performance capital spending for previous years to determine the efficient capital expenditure and set a reasonable future capex;

Set the WACC to allow reasonable return (profit) to monopiles companies for their investments on the network by taken into account the risks and costs incurred by shareholder and creditors.

Set an appropriate performance incentives to motivate companies to improve the quality of services provided to the consumers and to ensure services reliability and security of supply;

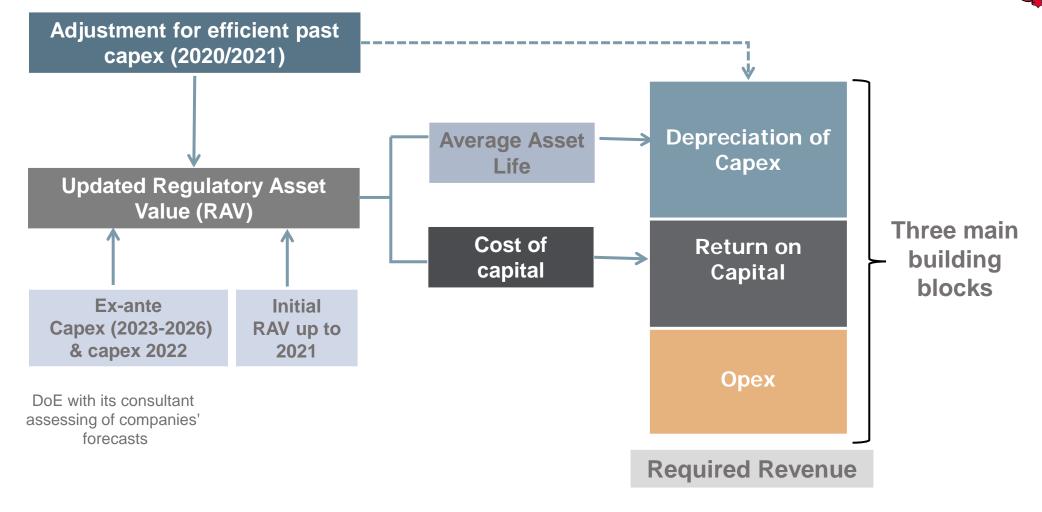






### **Price Controls Framework - Calculations**

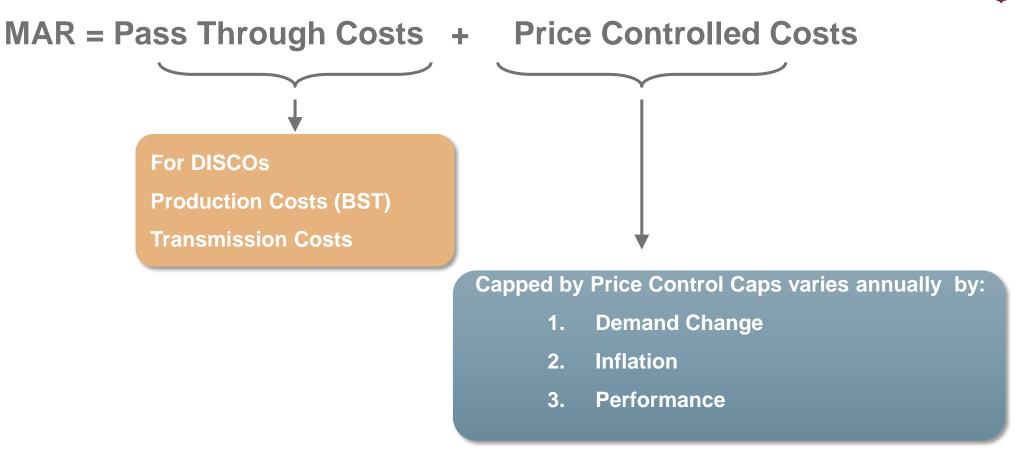
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**RAV:** is the mid-year average of opening and closing Regulatory Asset Values (RAVs). For each year, the closing RAV is determined by adding the capital expenditure (capex) incurred in that year to, and subtracting the depreciation from, the opening RAV.

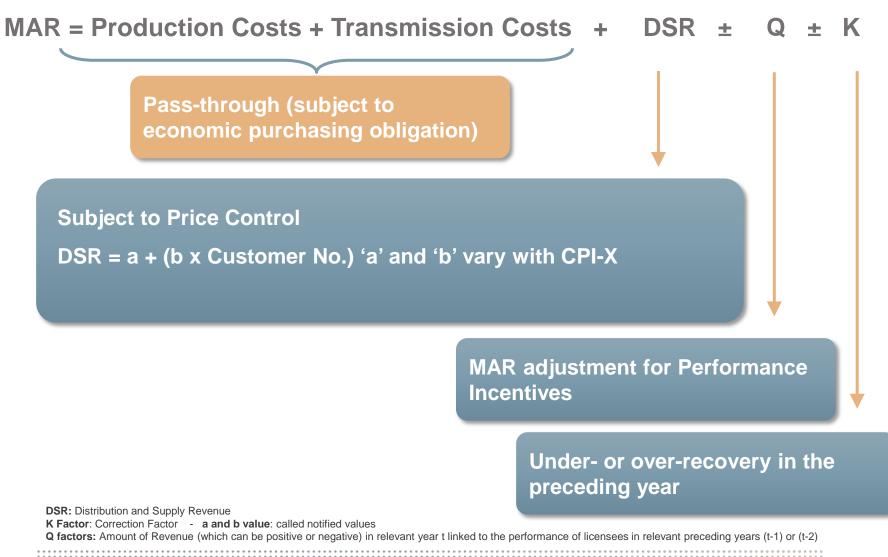
### Example: Structure of DISCOs' Price Controls





### **Price controlled Costs Calculations**





#### Weighted Average Cost of Capital (WACC) – Methodology

Up to RC1 the rate of return or WACC estimated based on local and overseas evidence.

A bottom-up approach has been applied for the RC2 WACC, where individual component of WACC is estimated separately using international regulatory benchmarks in the absence of robust local and regional data.

Cross-checked with the individual components used in price control decisions from several international regulators with a similar regulatory framework. The WACC compensates regulated networks for an assessment of efficient financing costs

WACC = Cd \* g + Ce \* (1-g)

RAV x WACC

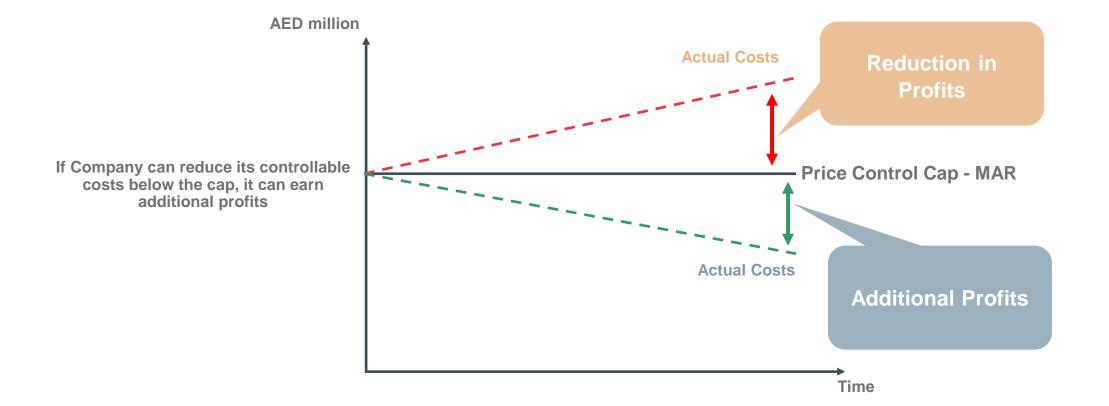


g: is gearing level, percentage proportion of debt/( debt + Equity), which is a financial ratio that compares some form of owner's equity (or capital) to debt, or funds borrowed by the company.



### Price Controls – Incentives to reduce costs



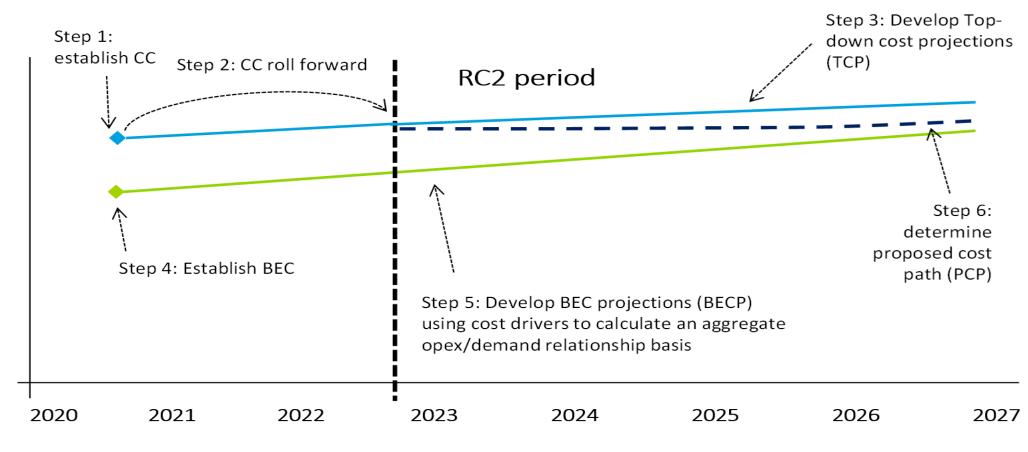


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### **Operating Expenditures- Methodology**

Hybrid of top -down and bottom-up approaches

Provisional allowances for uncertain specific cost items (eg Emiratisation)

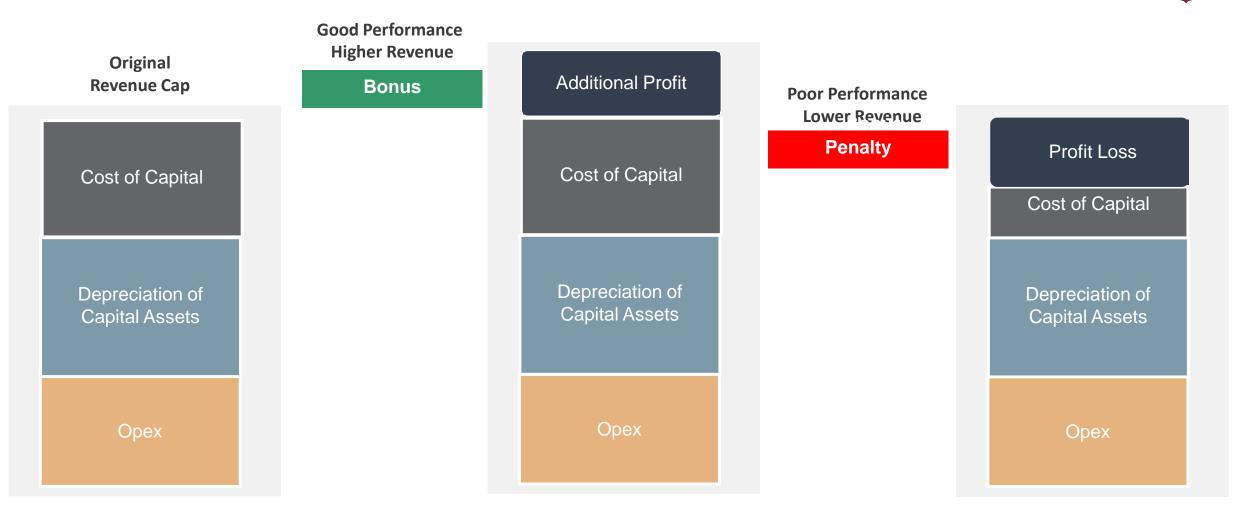


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### Incentives – Impact in building blocks





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