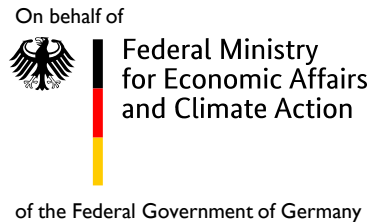
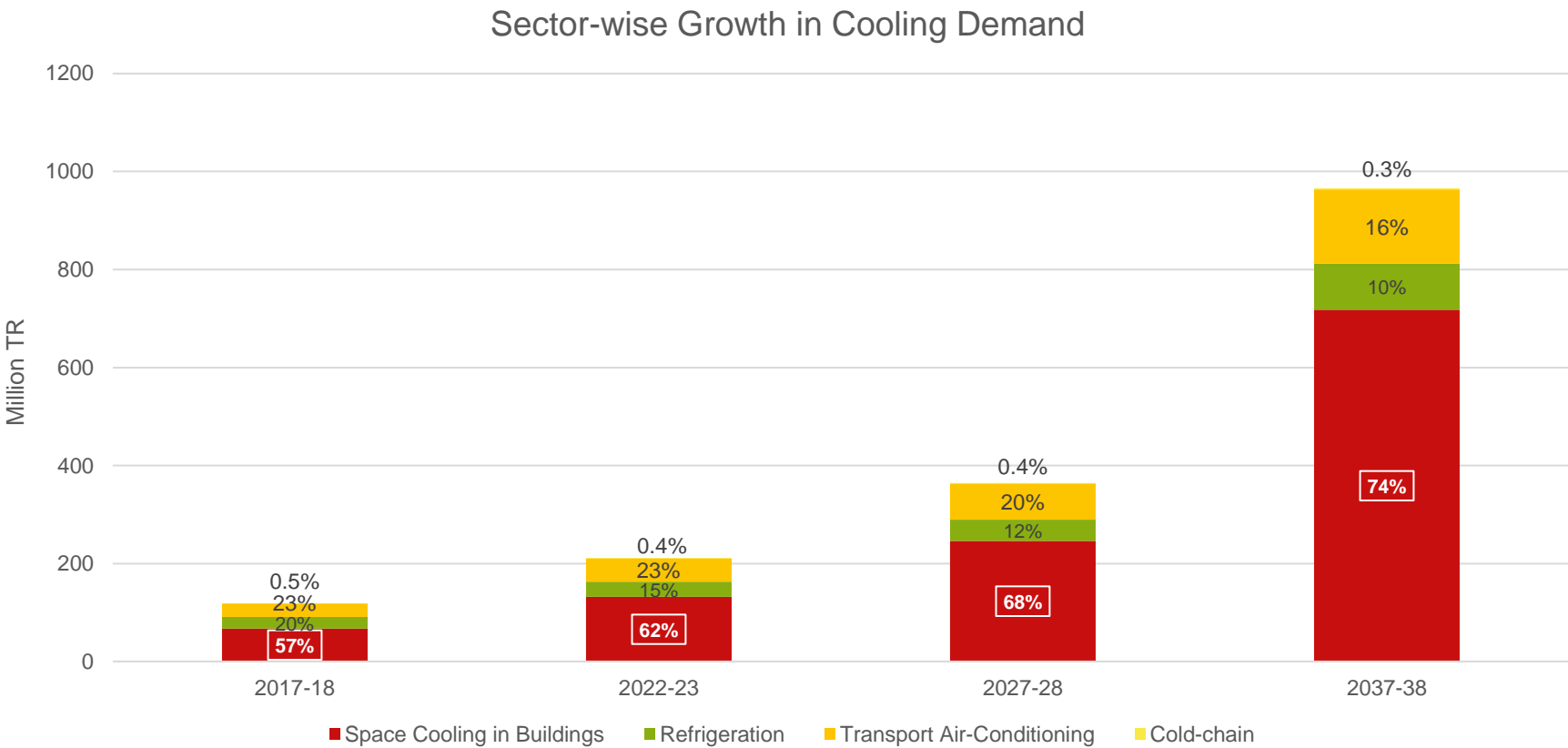


Enabling Uptake of District Cooling System in India

March 2, 2023



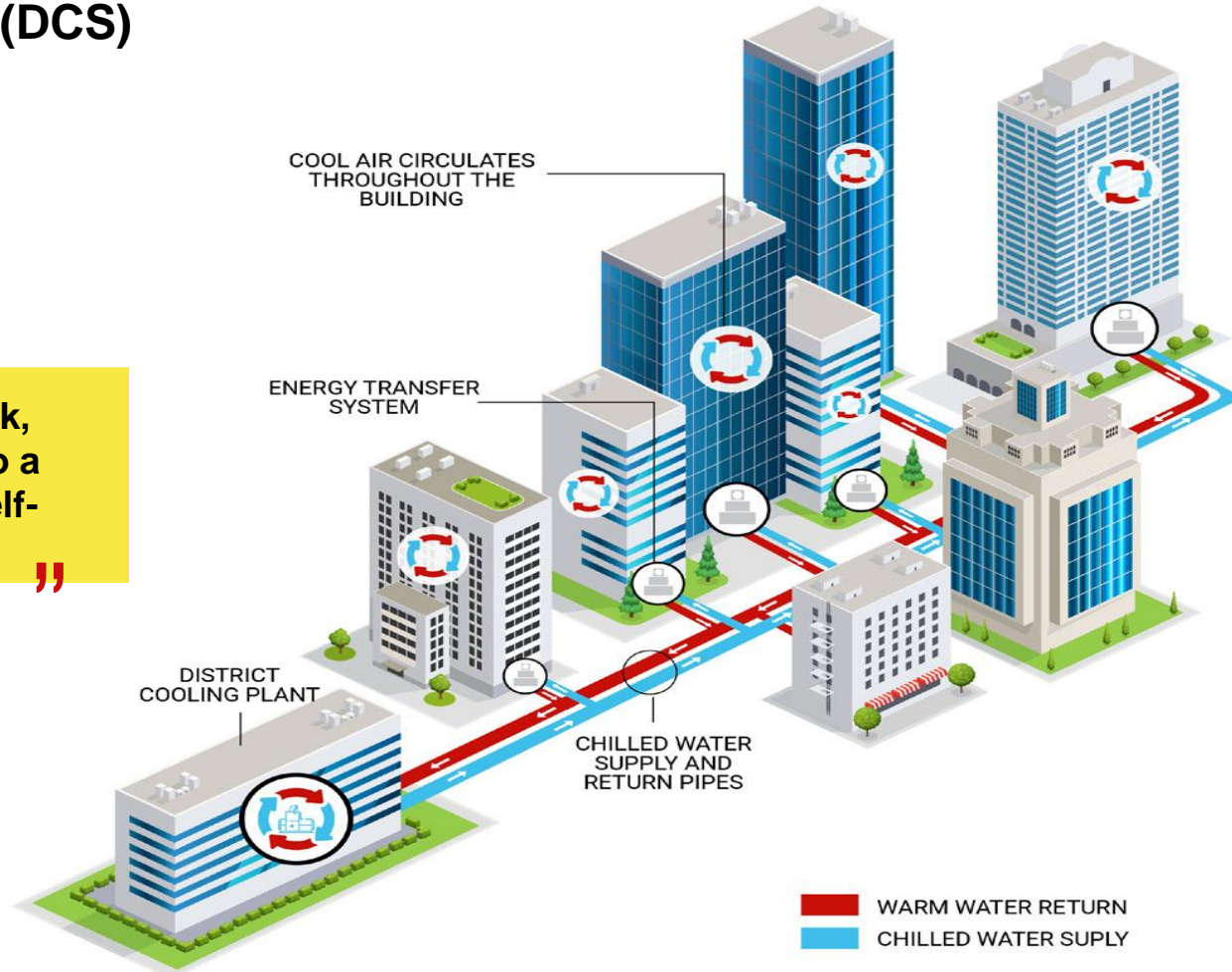
Background



“ **8X growth in cooling demand in 2 decades**
Maximum share is from Space Cooling in Buildings ”

District Cooling System (DCS)

**One Single Cooling Network,
Distributing Chilled Water to a
Cluster of Buildings as a Self-
Sustaining Service**

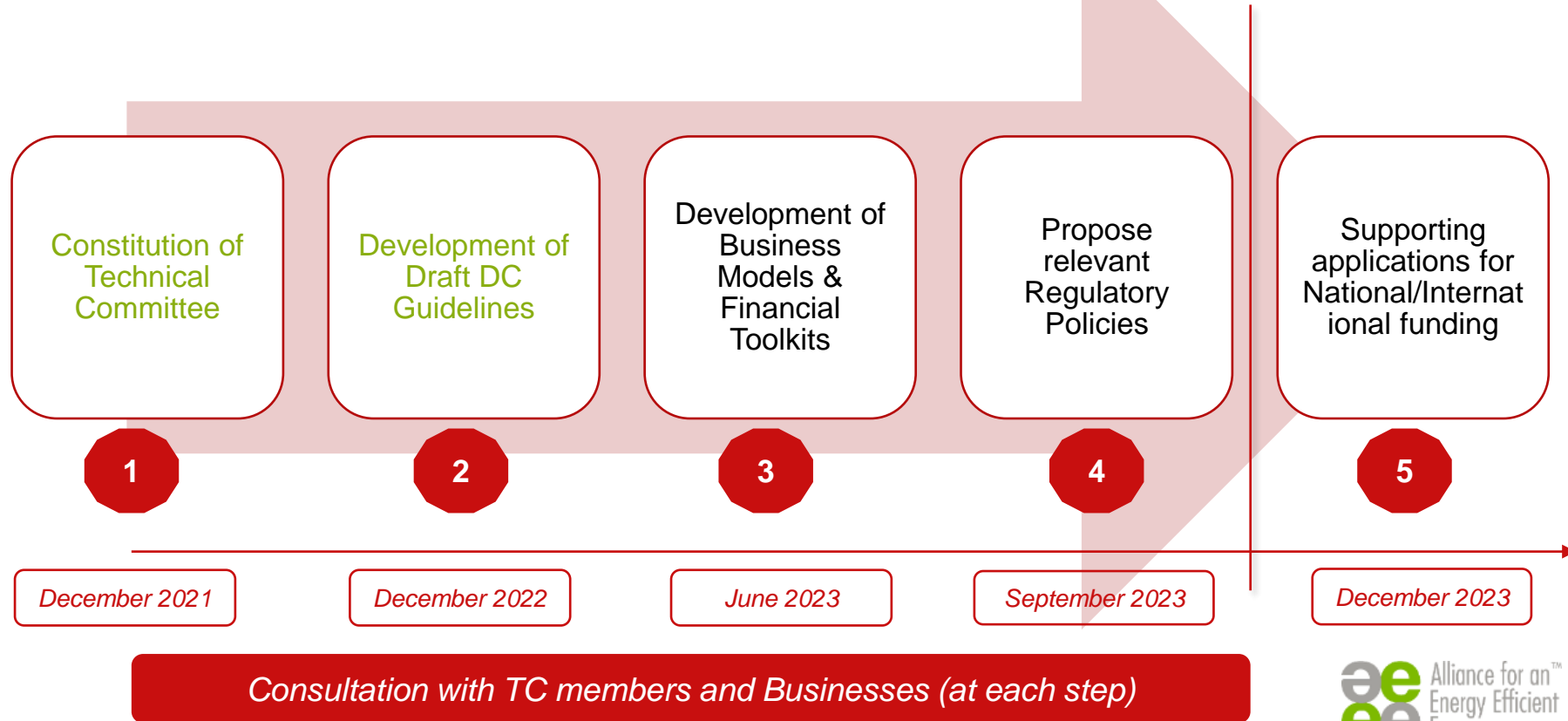


On-Going District Cooling Projects in India

S. No.	Description	Status
1	GIFT City	<ul style="list-style-type: none"> • In operation since 2015 • Total Demand of 240,000 TR met by 180,000 TR • Digging-free policy and planned underground utility corridor provides with easy access and low maintenance and operations issues • Standard operational policies and procedures were setup in advance
2	Hyderabad Pharma City	Tender has been floated for development of 3 DC Projects for the Hyderabad Pharma City
3	IIT Delhi	Feasible – Discussion in advanced stages. IIT Delhi's proposal for conducting DCS pre-feasibility for IIT Delhi campus under review
4	Jewar Airport	Identified – Discussion held with Shri Ashish Tiwari, Secretary, DoEF&CC, UP

Other projects that have been in consideration: Dholera Smart City, Pune Medicity, Silicon Valley Tech Hub in Kolkata, Central Vista, CPWD Ghitorni Complex

Roadmap for adoption of DCS in India



Key Highlights – District Cooling Guidelines

Objectives of District Cooling Guidelines

Define District Cooling Systems (DCS) in the Indian context, along with its environmental, societal and economic benefits

Act as an information handbook on DCS for a range of stakeholders, including state and city development authorities, developers, and investors

Provide guidance on DCS scope, planning, construction, O&M, measurement and billing systems, business models, bidding choices, and other enabling mechanisms

Present roles and responsibilities of key stakeholders in DCS in India

Recommend state-level actions that can be adopted to promote DCS

Provide case studies of operational DCS projects in India



Enabling Actions Identified

Considering DC as a utility: One of the most important enabling actions by the government would be to consider designating DC service as a utility. It would be best if any applicable tax and incentives for DCS be treated on par with other public utilities such as PNG, electricity, and water.

Fairness and transparency in DC tariffs for Cooling as a Service (CaaS): The government should consider providing concrete guidance on DC tariffs to ensure fairness and transparency for all three key players, i.e., end-customers, real estate developers, and DC service providers.

Competitive electricity and water tariffs for DCS: The electricity and water tariffs for the DC companies serving both commercial and residential buildings should be commensurate with prevailing tariffs for similar category of consumers. It maybe appropriate to make DCS a separate consumer category for deciding on tariffs.

Considering Sustainable Cooling as a basic necessity: Laying out Policy Mandates for consideration of cooling in the large infrastructural developments through Municipal norms, Environmental clearance regulations and issuing policies for provision of cooling in residential projects.



Regulatory Mechanism can propel the adoption of DCS In India



Way forward

DC Guideline Launch and Dissemination

Conducting 2nd GIFT City Study Tour for Key Government Stakeholders

Planning for International Study tour to Dubai/ Malaysia/ Singapore for Key Government Stakeholders

International Conference in India focusing on DCS

Business & Finance Model Toolkit Development

Strategic Roadmap for DCS adoption in India

Exploring potential for participation at COP 28

Establishment of DC Knowledge Center

Thank You