

# POLICY DEVELOPMENT: INTEGRATING DISTRICT ENERGY SYSTEMS INTO URBAN PLANNING

10 AUGUST, 2021



## DISTRICT ENERGY IN CITIES

A GLOBAL INITIATIVE TO UNLOCK THE POTENTIAL OF ENERGY EFFICIENCY AND RENEWABLE ENERGY



# WHAT DO WE DO?

**Our goal:** Help cities tackle the energy transition through district energy

**Our model:** A private-public partnership with over 60 partners

**Our Approach:** Take best practices from around the world, adapt and replicate

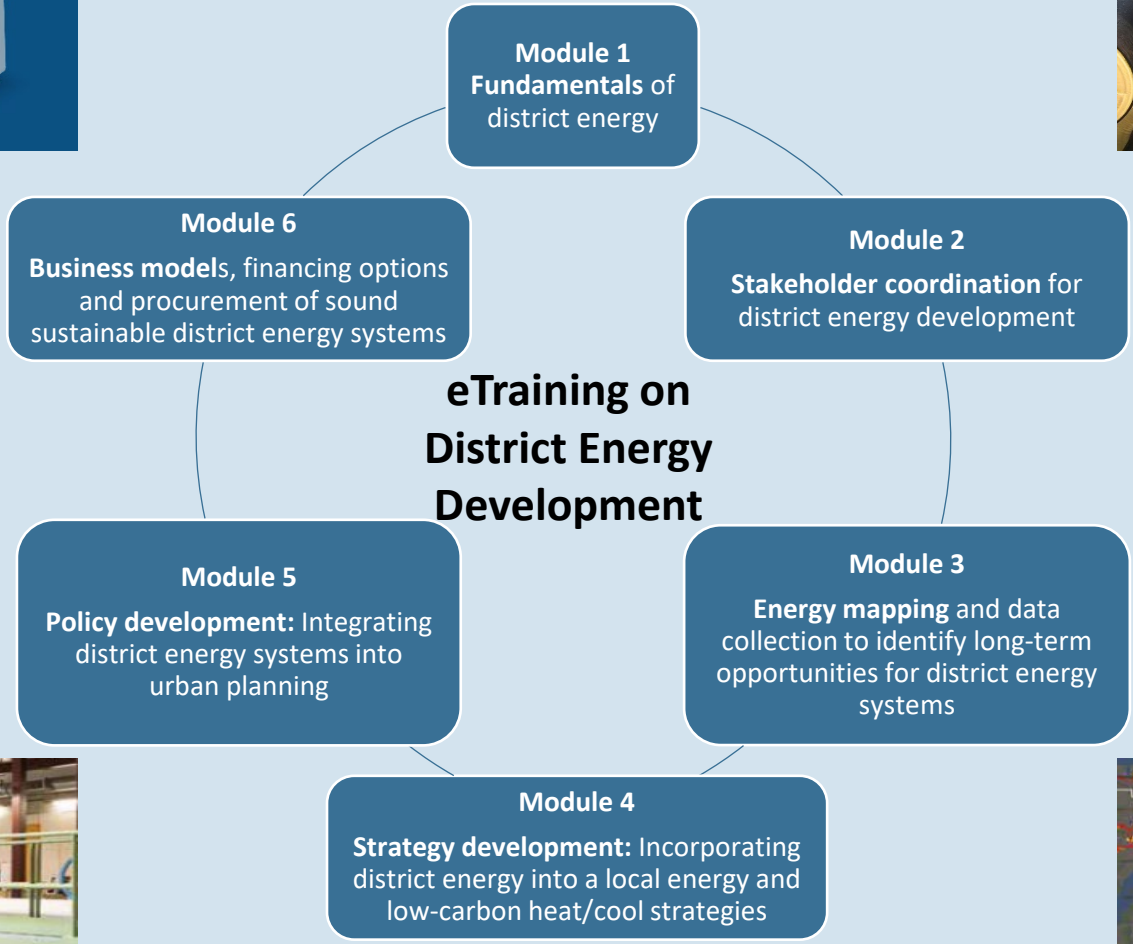
**Where are we:** Supporting over 30 cities in 14 countries

**What we do:**

MARKET TRANSFORMATION



1. Increase **knowledge** of multiple benefits of district energy
2. Provide **technical assistance** to identify potential pilot projects, undertake pre-feasibility studies, design business models, support the tender process and develop long-term local district energy strategies.
3. **Scale-up** locally, through the establishment of local multi-stakeholder coordination units, and nationally, supporting the development of a national framework to support project development.
4. **Unlock investments:** Support the identification of financial mechanisms to address financial barriers and support the first projects in new markets.



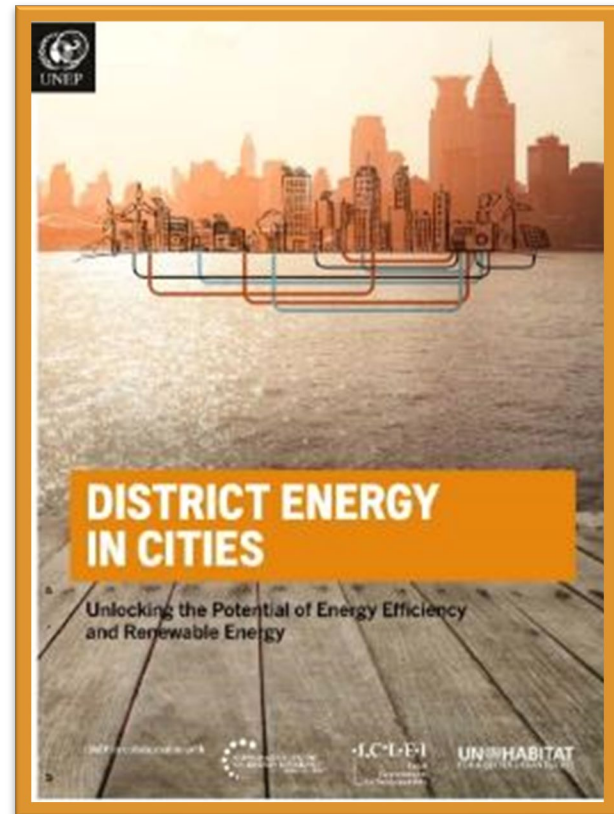


# MODULE 5. POLICY DEVELOPMENT

## DISTRICT ENERGY PLANNING

### Key Steps in District Energy planning

1. **Assess** existing energy and climate policy objectives, strategies and targets and identify catalysts
2. **Strengthen** or develop the institutional multi-stakeholder coordination framework
3. **Integrate** district energy into national and/or local energy strategy and planning
4. **Map** local energy demand and evaluate local energy resources
5. Determine relevant **policy design** considerations
6. Carry out **project pre-feasibility** and viability
7. Develop **business plan**
8. Analyse **procurement options**
9. Facilitate **finance**
10. **Replicate**



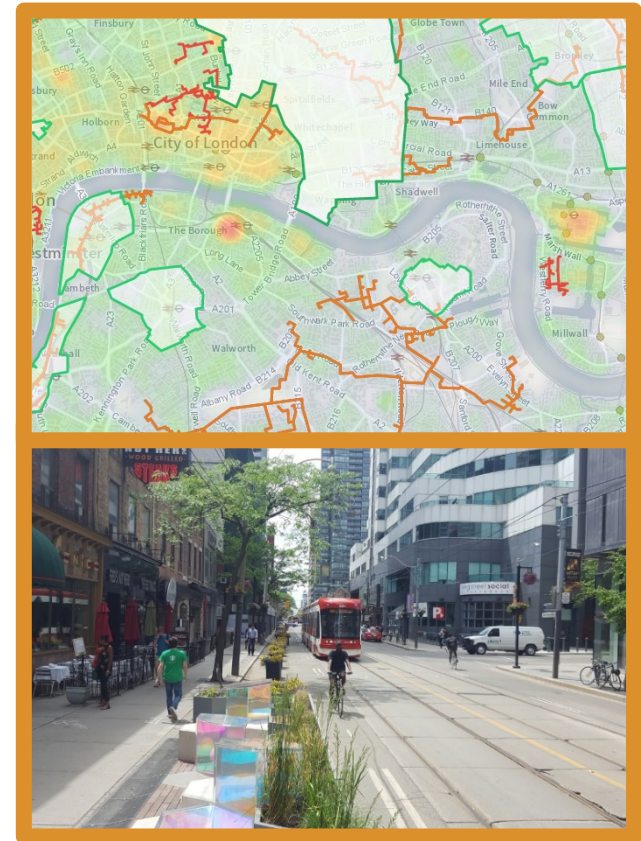
Source: District Energy in Cities. Unlocking the Potential of Energy Efficiency and Renewable Energy



## DEFINITION

### What is urban planning?

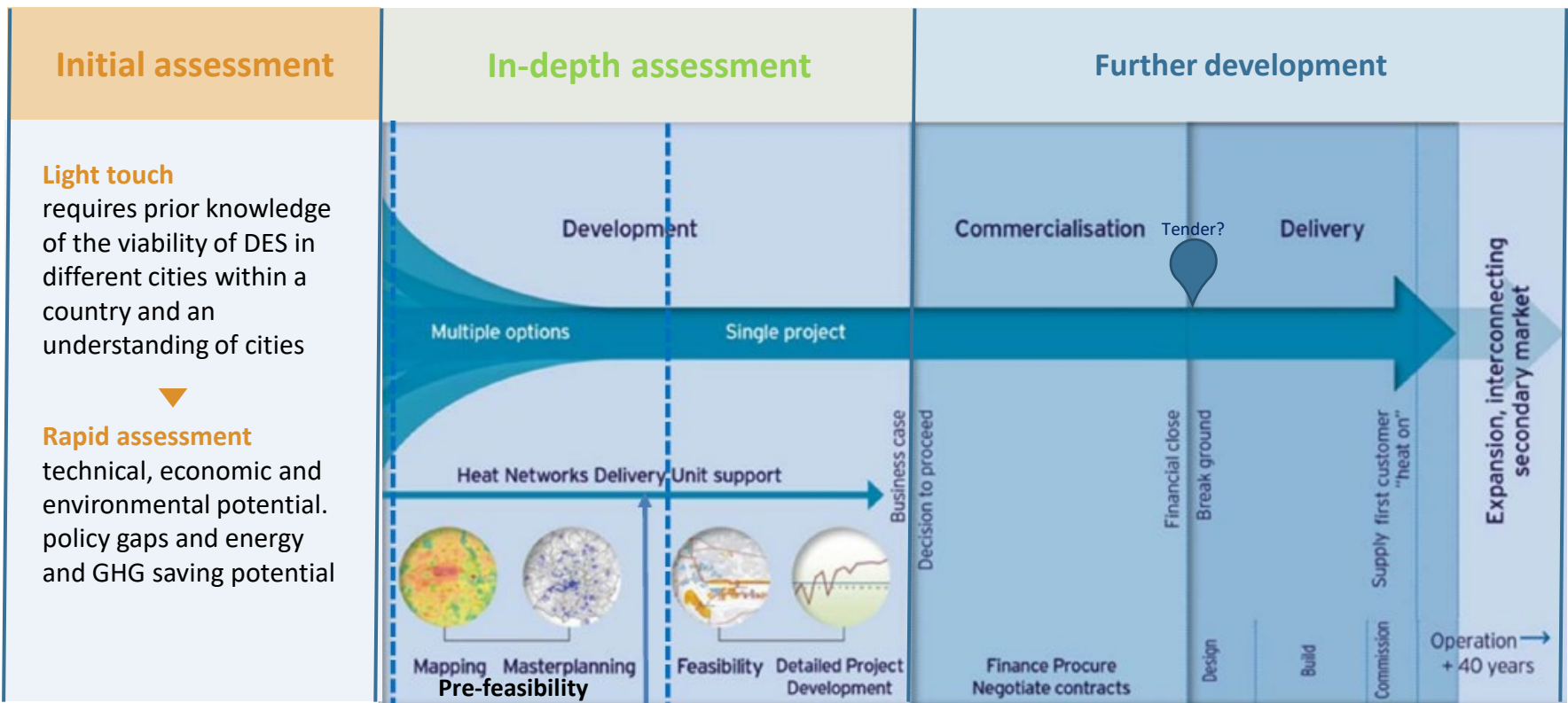
- Also known as regional planning, town planning or city planning
- It is a **technical and political process** concerned with the development and design of land use and the built environment.
- Includes **air, water, energy, and the infrastructure** passing into and out of urban areas, such as transportation, communications, and distribution networks.



Source: [maps.london.gov.uk](https://maps.london.gov.uk), [880cities.com](https://www.880cities.com)

**MAIN PHASES**

**Main phases and assessments in DES planning**



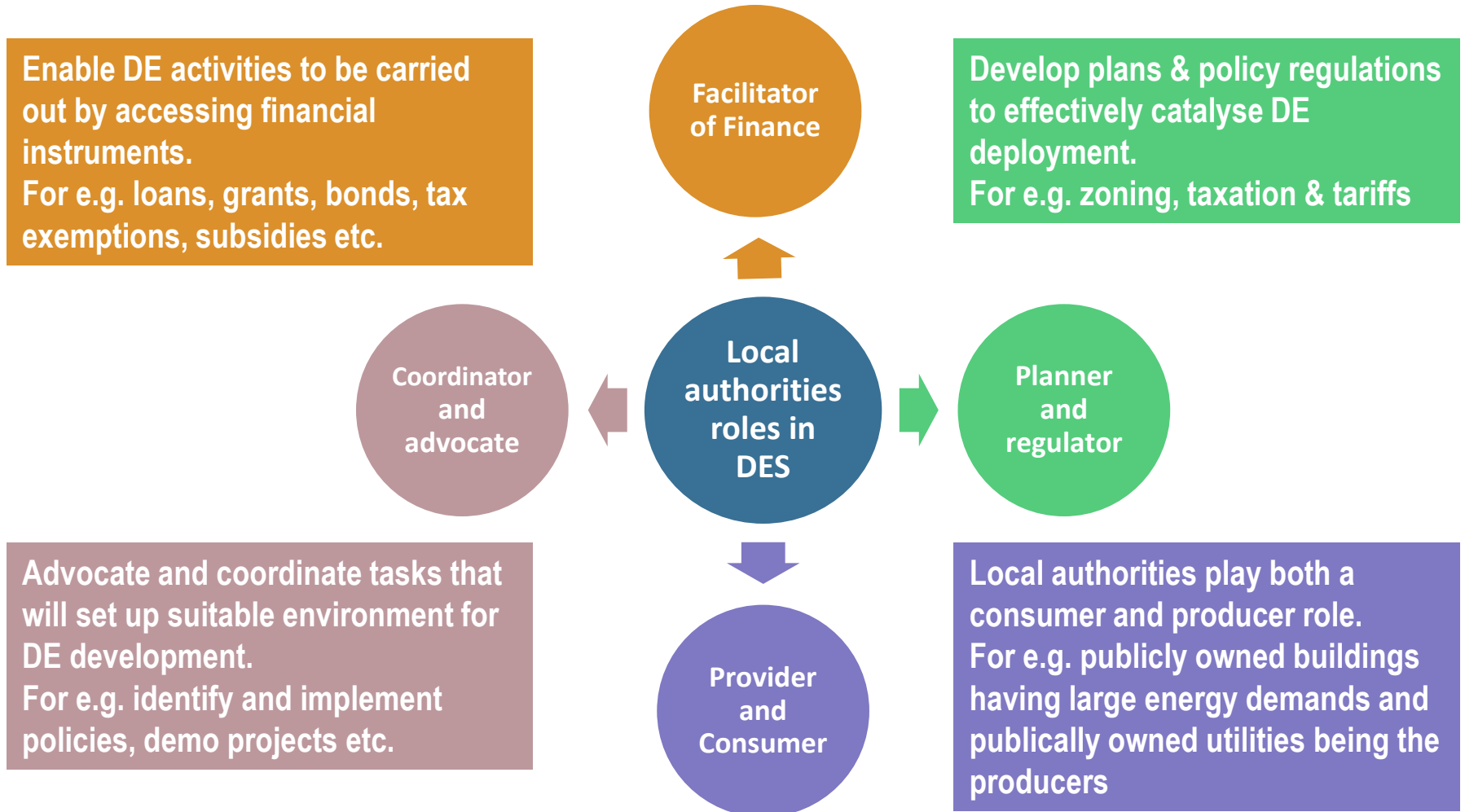
Source: Adapted from Carbon Trust



# MODULE 5. POLICY DEVELOPMENT IN DE

## THE ROLE OF LOCAL AUTHORITIES

Local authorities have the following main roles in DES planning

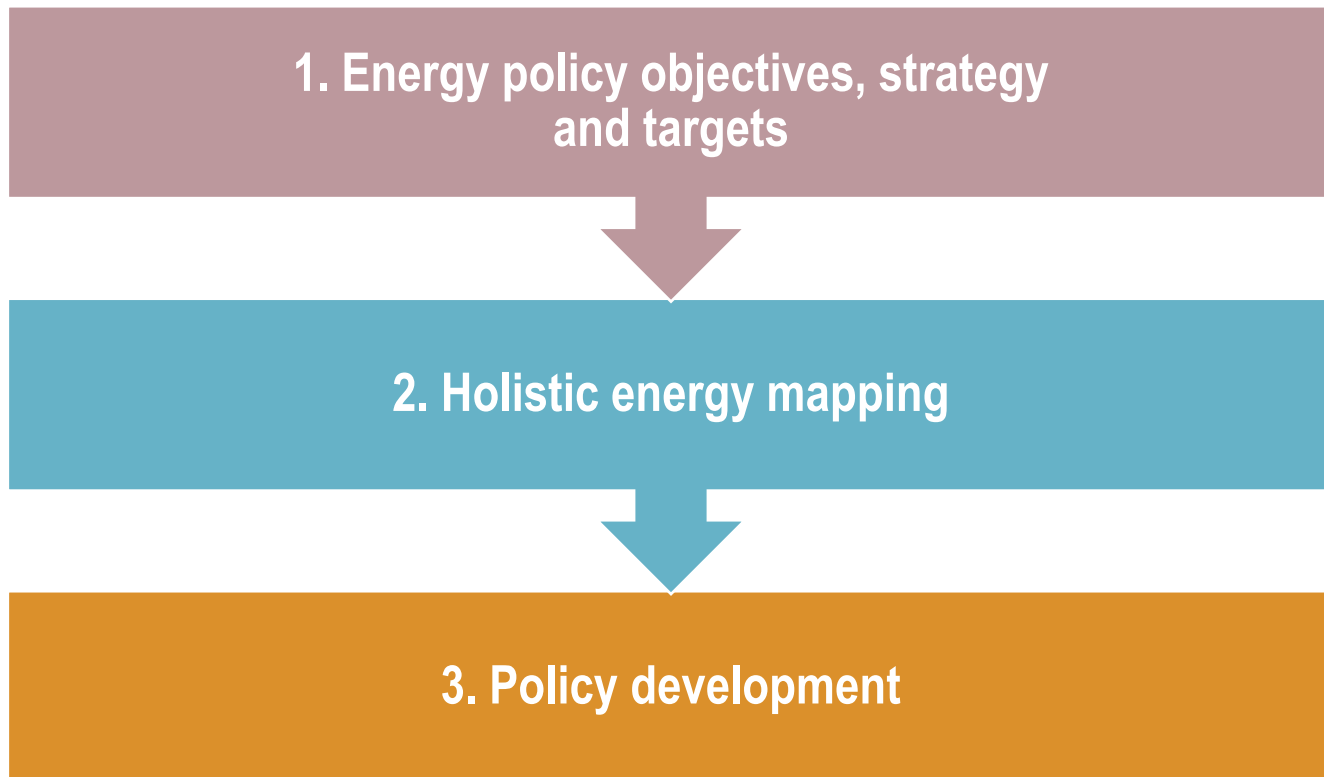




# MODULE 5. POLICY DEVELOPMENT IN DE

## THE ROLE OF LOCAL AUTHORITIES

**As planners and regulators,  
local authorities have three main areas for policy intervention:**







**THANK YOU FOR YOUR ATTENTION**

For more information on please visit the website or contact:



District Energy in Cities: <http://districtenergyinitiative.org>



Copenhagen Centre on Energy Efficiency: <https://c2e2.unepdtu.org/>



## THANK YOU FOR YOUR ATTENTION

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