

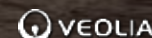
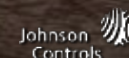
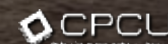
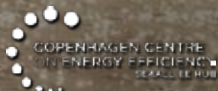


DISTRICT ENERGY IN CITIES

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



UNEP in collaboration with

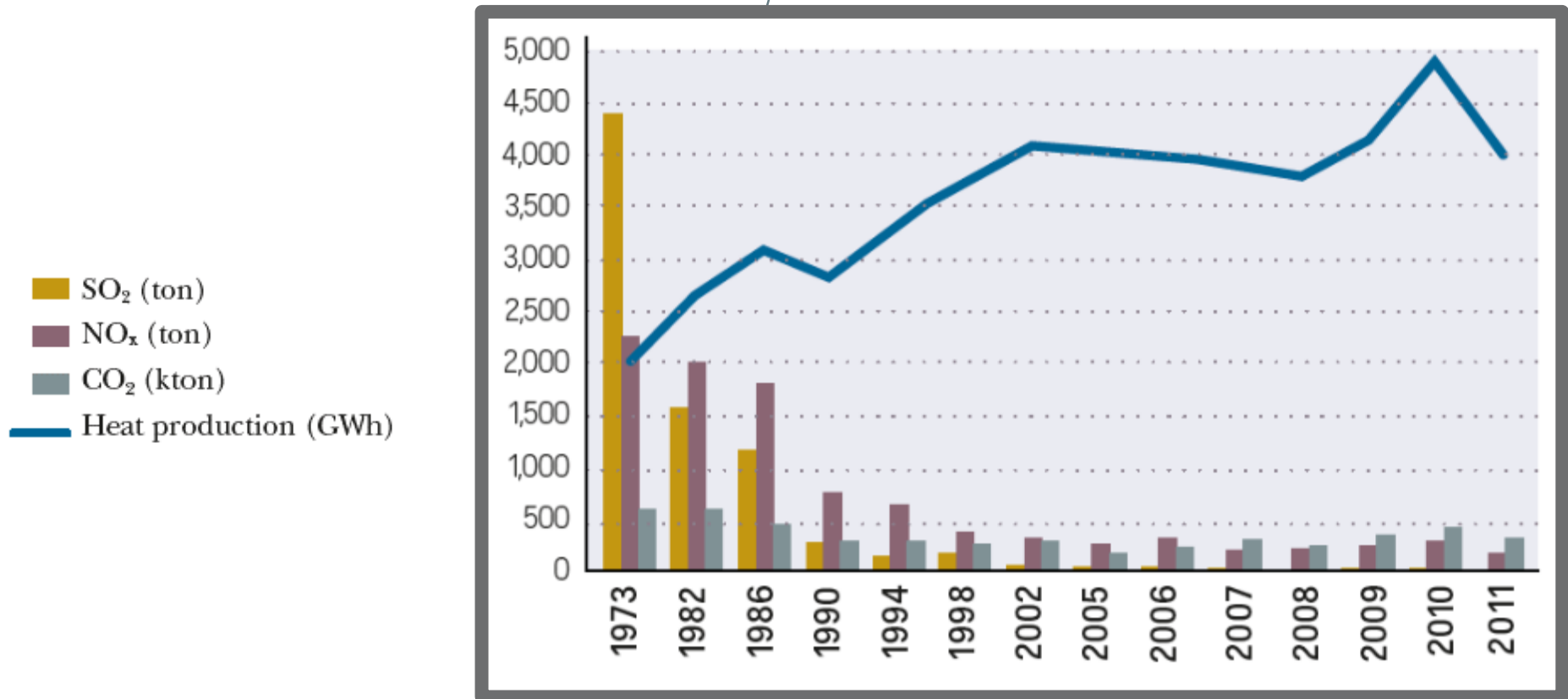




WHY IS DISTRICT ENERGY IMPORTANT?

60% of the global energy consumption in buildings, largely met by fossil fuels

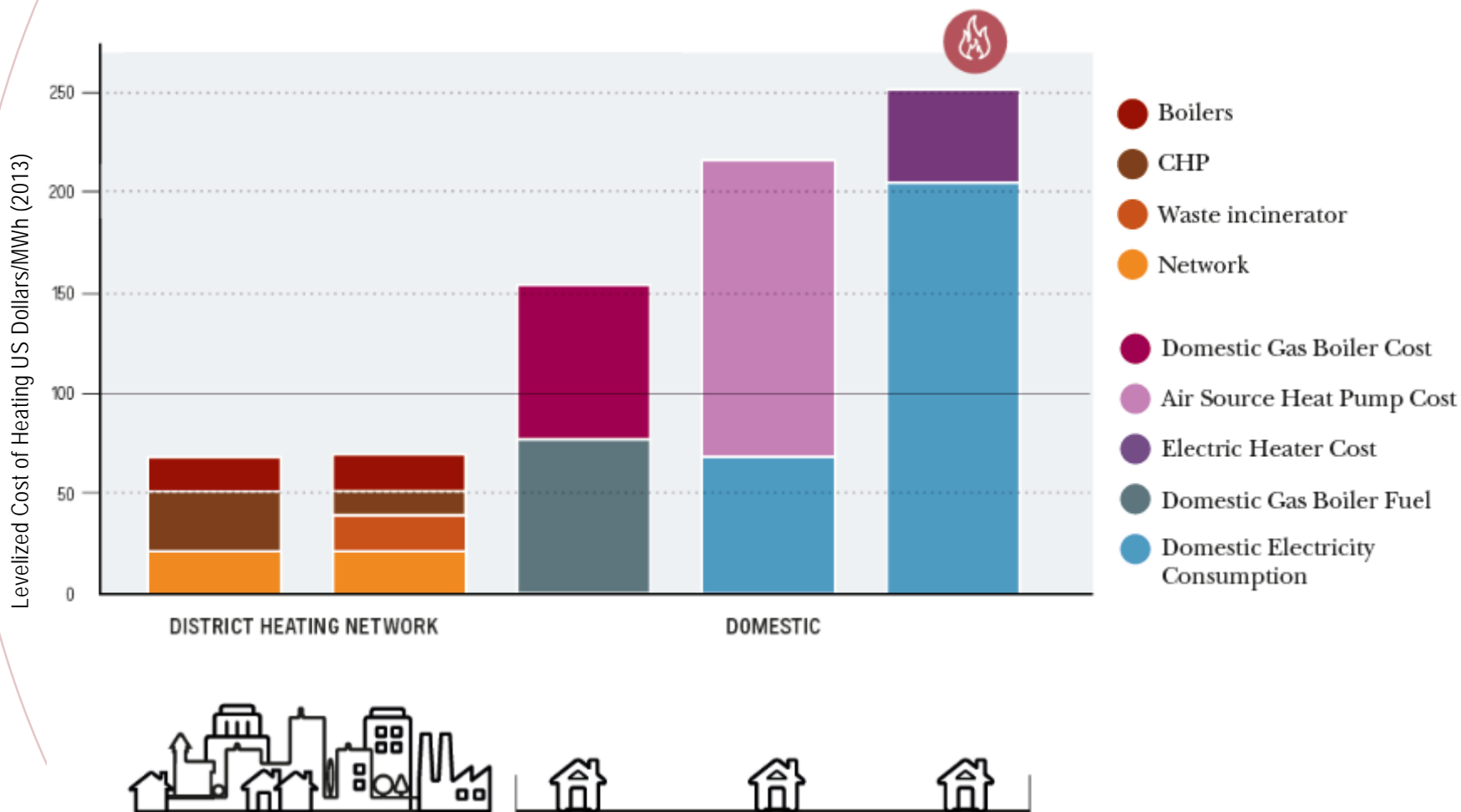
Approximately, 20% of global greenhouse gas emissions is for heating buildings





DISTRICT
ENERGY
IN CITIES

DISTRICT ENERGY IS COST EFFECTIVE



*These costs are explained in the UNEP publication District Energy in Cities: Unlocking the Potential of Energy Efficiency and Renewable Energy



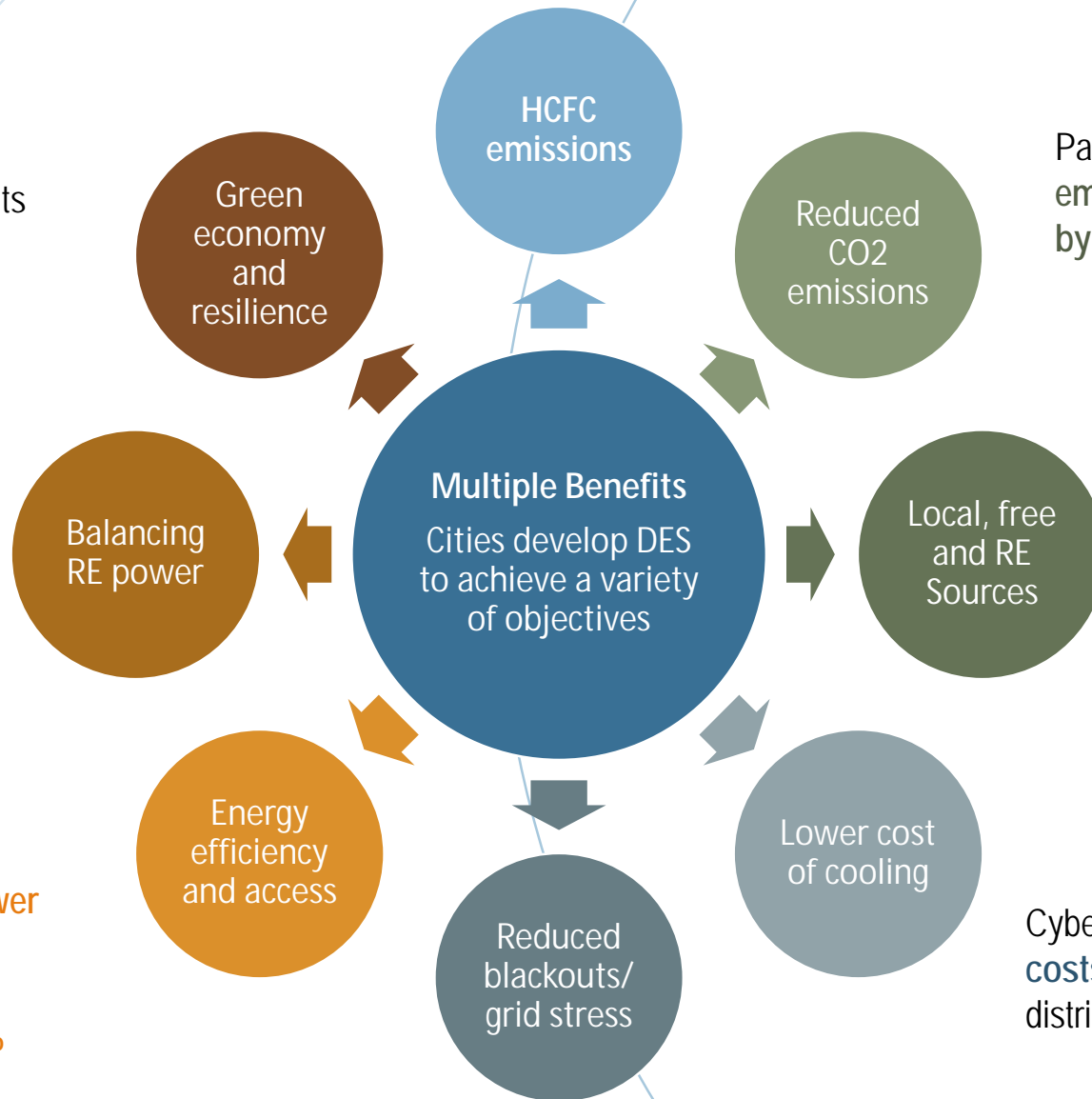
DISTRICT
ENERGY
IN CITIES

MULTIPLE BENEFITS TO ACHIEVE DIVERSE POLICY OBJECTIVES



Oslo, Norway's, employment benefits from DES are estimated at **1,375 full-time jobs**.

GIFT City could **lower electricity consumption for cooling by 65-80%**

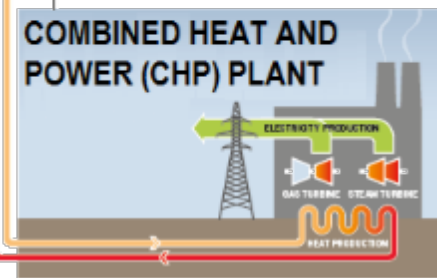
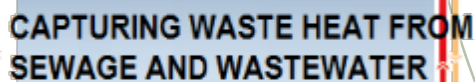


Paris reduced refrigerant emissions from cooling by **90%**

Cyberjaya **lowered cooling costs by 39%** through district cooling



WHAT IS DISTRICT ENERGY?





DISTRICT
ENERGY
IN CITIES

LAUNCH OF DISTRICT ENERGY IN CITIES INITIATIVE AT CLIMATE SUMMIT



SUSTAINABLE
ENERGY FOR ALL

Double Global Rate of
Improvement of
Energy Efficiency by
2030





DISTRICT
ENERGY
IN CITIES

A GLOBAL PARTNERSHIP TO SCALE-UP MODERN DISTRICT ENERGY SYSTEMS



GLOBAL ENVIRONMENT FACILITY
INVESTING IN OUR PLANET



GDF SUEZ devient ENGIE





DISTRICT
ENERGY
IN CITIES

OBJECTIVES OF THE INITIATIVE



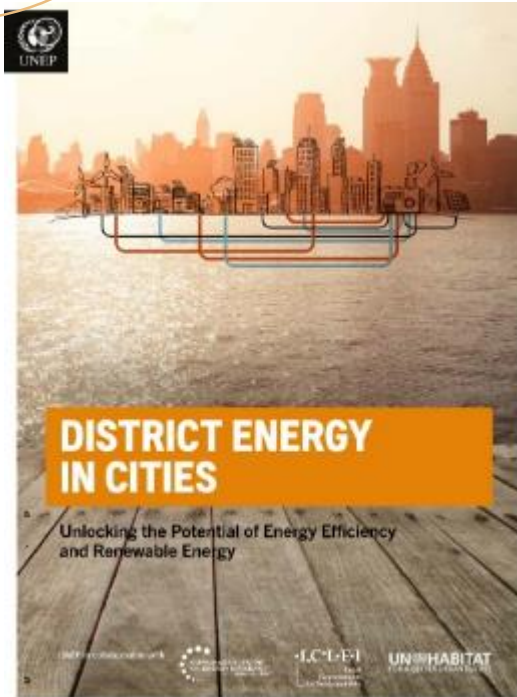
TAP THE POOL OF EXPERTISE ACROSS ITS PARTNERS TO:

- Increase awareness
- Promote and strengthen local - national policies
- Create an environment that attracts investment



DISTRICT
ENERGY
IN CITIES

A TECHNICAL GUIDE TO DISTRICT ENERGY



*"In launching this report we want to draw the **attention of the world's decision makers**, mayors and leaders at the community level **to the importance of district energy systems.**"*

- Achim Steiner, UN Environment Programme Executive Director. Launch of the District Energy in Cities Report - Paris, 25 February 2015



DISTRICT
ENERGY
IN CITIES

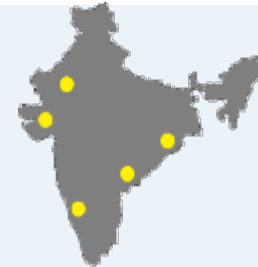
OVERVIEW OF THE DES INITIATIVE'S ACTIVITIES



OUTREACH



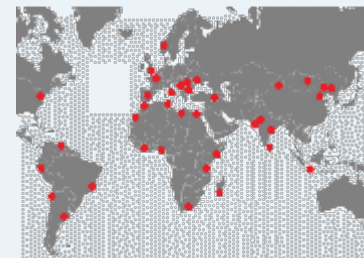
LIGHT TOUCH



DEEP DIVE



REPLICATION



OUTREACH: FIRST YEAR OF THE DES INITIATIVE



DISTRICT
ENERGY
IN CITIES



Global Awareness Raising



WORKSHOPS: 10

CASE STUDIES: 2

EVENTS AT COP21: 6

PUBLICATION LANGUAGES: 3

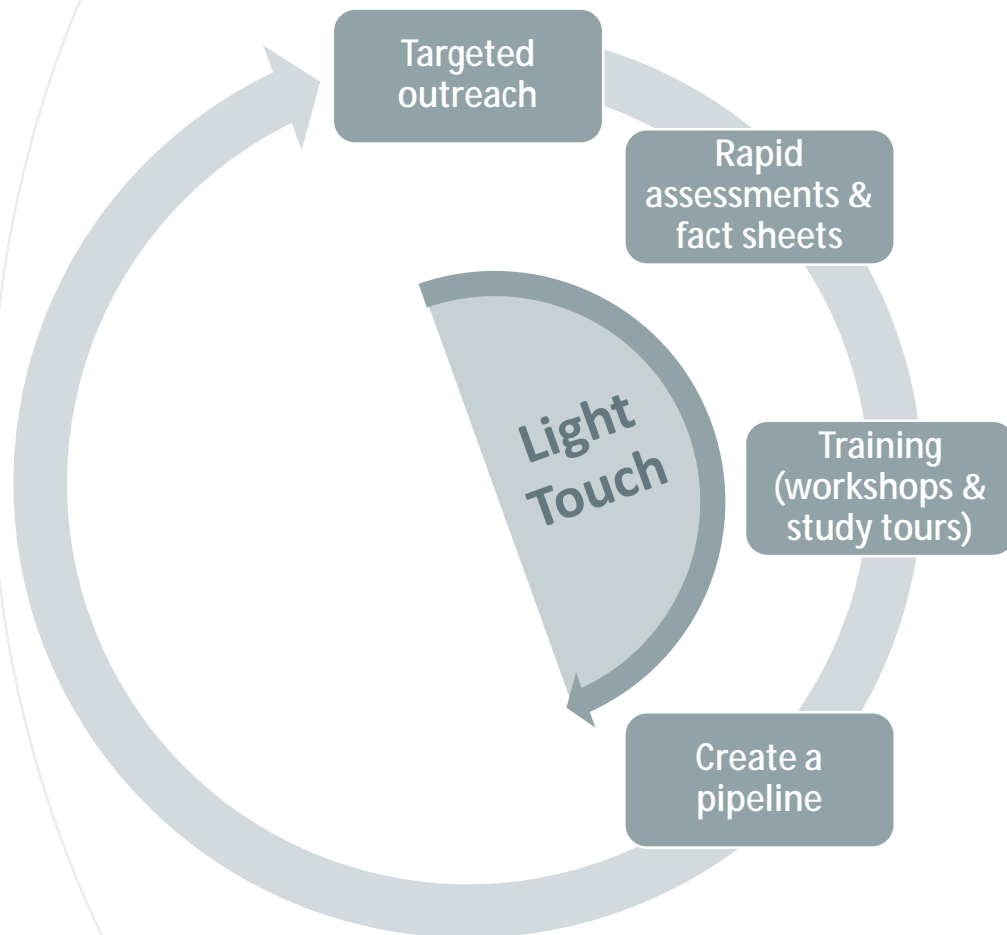
CITIES IN DIRECT CONTACT: 98

TRAINING WEBINARS: 6



DISTRICT
ENERGY
IN CITIES

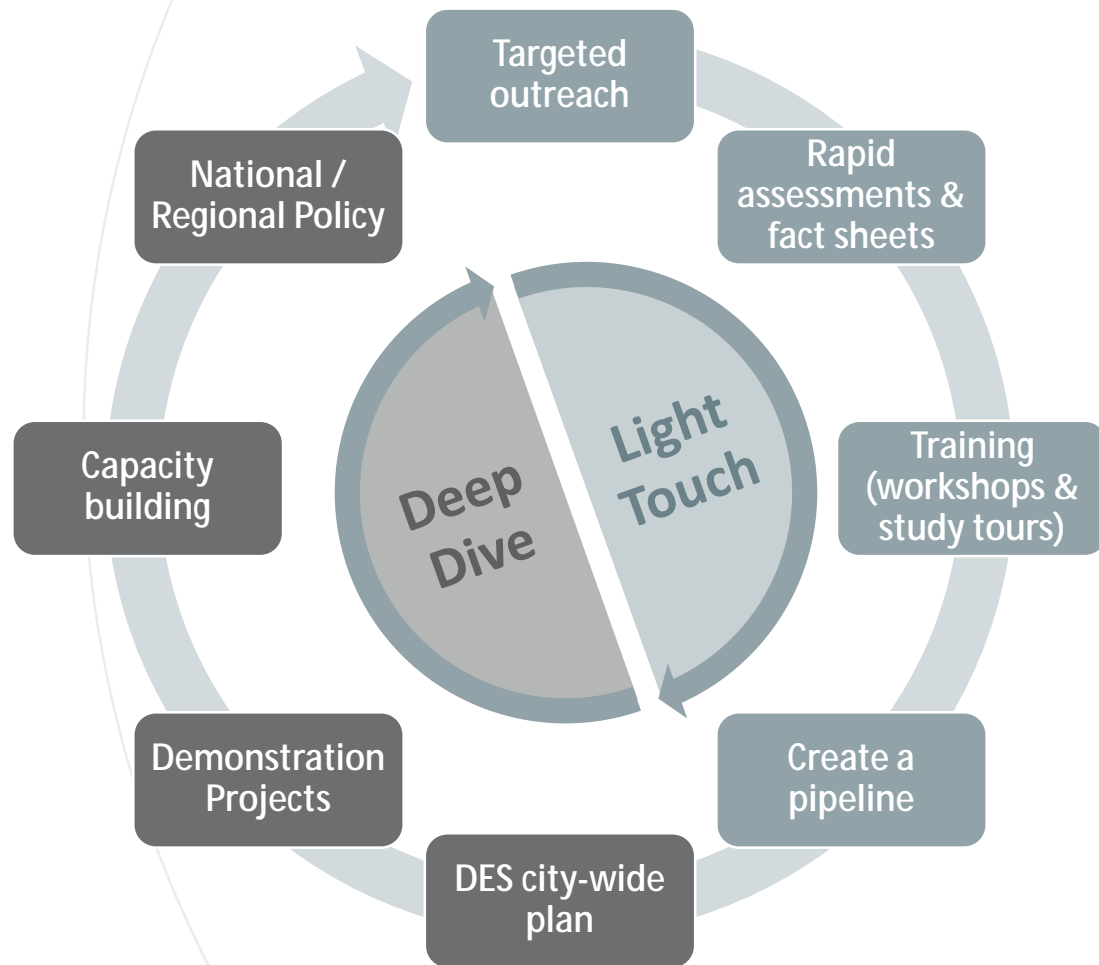
'LIGHT TOUCH' CITY ACTIVITIES





DISTRICT
ENERGY
IN CITIES

DEEP DIVE ACTIVITIES



DEEP DIVE ACTIVITIES IN BELGRADE



DISTRICT
ENERGY
IN CITIES



- **UNEP** as part of the DES Initiative can work with Belgrade to provide **deep-dive support**
- Help Belgrade deliver **low carbon** and **cost effective** district heating
- Can provide **neutral and expert opinion** for the city and its district heating
- Support **replication** in other cities in the region by providing **tools, methodologies and best practices**



Image source: liveseasonal.com



DISTRICT
ENERGY
IN CITIES

REPLICATION REGIONALLY OF INITIATIVE ACTIVITIES



AIMS

- Collect and disseminate best practice and project results to **recruit new 'learning cities'**
- Ensure signed-up learning cities are **sufficiently supported** to develop DES.

VIRTUAL PLATFORM

- Training materials, standard templates, assessment tools, methodologies, best practice

DIRECT SUPPORT

- Communication links with mentor cities, funders and private sector partners



DISTRICT
ENERGY
IN CITIES

CLIMATE TECHNOLOGY CENTRE & NETWORK (CTCN)



Fast and short (3 pages) application process for countries



ctc-n.org

Technical assistance provided:

- To developing countries upon their request
- Free of charge (value up to 250,000 USD)
- State of the art and locally relevant expertise
- To academic, public, NGO, or private entities
- For a broad range of adaptation and mitigation technologies

At all stages of the technology cycle:

- Identification of technology needs
- Prioritization of technologies
- Feasibility analysis of deploying specific technologies
- Support to scale up use and identify funding for specific technologies
- Support testing of technologies
- Support laws and policy frameworks



DISTRICT
ENERGY
IN CITIES

THANK YOU!



For more information on the Global District Energy in Cities Initiative and to become a partner, please visit the website or contact:

- **Mr. Pier Carlo Sandei,**
Programme Coordinator for South Eastern Europe
UNEP - Vienna Programme Office
piercarlo.sandei@unvienna.org
- **Mrs. Djaheezah Subratty,**
Head of Policy Unit,
Energy, Climate, and Technology Branch, UNEP
djaheezah.subratty@unep.org
- **Ms. Lily Riahi,**
Advisor on Sustainable Energy in Cities,
Energy, Climate, and Technology Branch, UNEP
lily.riahi@unep.org