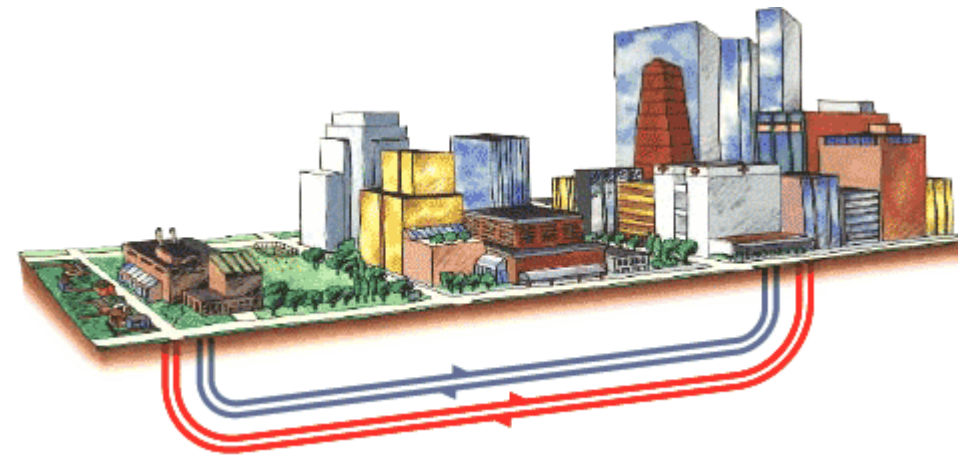


IDEA Kickoff Workshop

26th January 2018

- District Heating in Ireland, Donna Gartland
- Proposal for IDEA, David Connolly PhD
- Discussion: Future Role of IDEA



District Energy in Ireland: Current Status and Outlook

DONNA GARTLAND

Why do we need a DH Association?

Energy Planning in Ireland

Electricity Infrastructure Planning



Transport Infrastructure Planning



???

~~Gas~~ Heat Infrastructure Planning

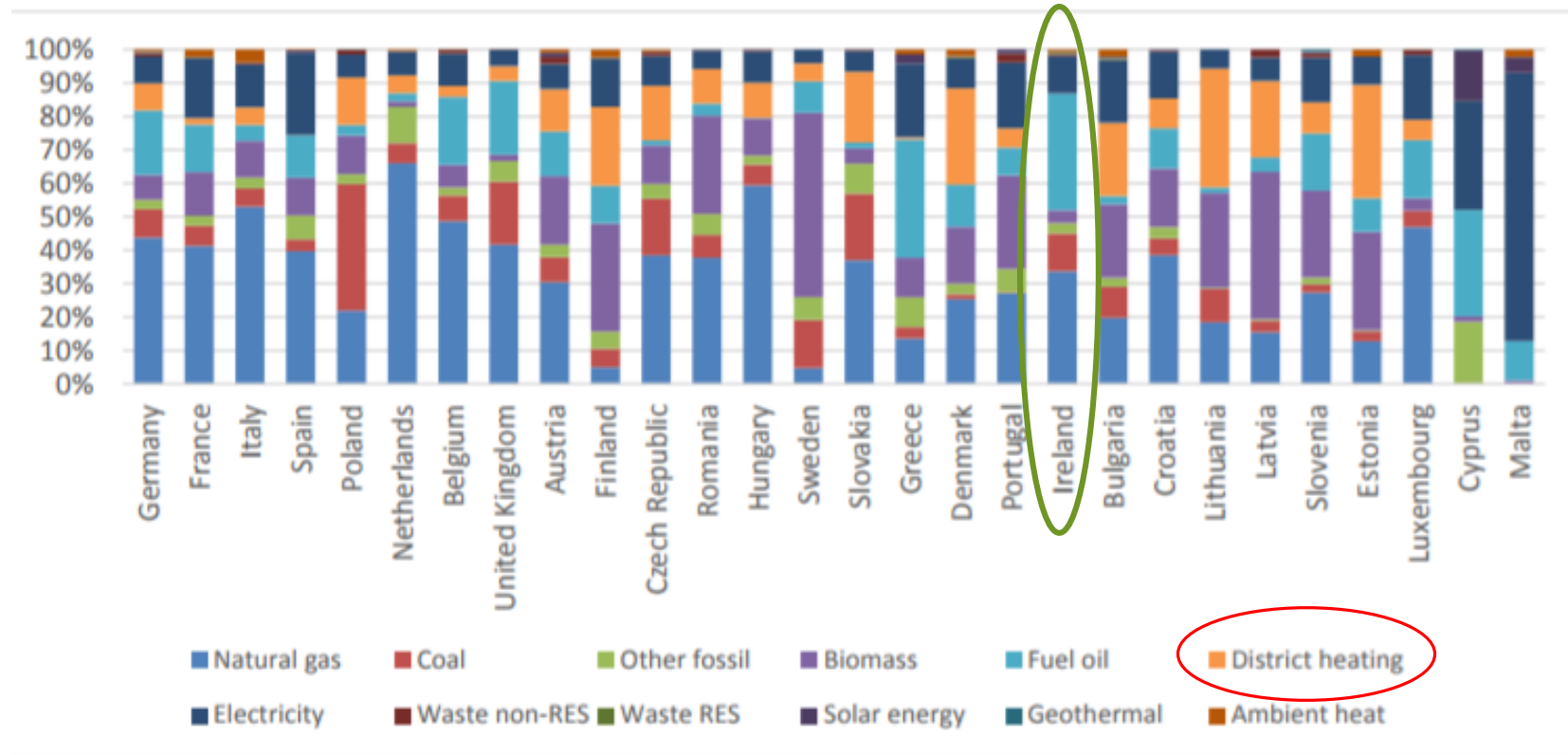
Current DH Policy

Supports (In-direct)	RHI – biomass and grant for HPs CHP	
Barriers	No support for Waste Heat use No regulation – higher risk BER issues	No planning policy Low carbon tax No Heat Plan

Contribution of DH in EU

- EU Countries with little or no DH:
 - Ireland
 - Cyprus
 - Malta
 - Greece
 - Spain

Figure 2: Final energy consumption for heating and cooling, 2012





Ireland

By Donna Gartland, last updated May 2017

<0.8%

of heat demand is covered by district
heating

25

CHP units used for district heating

35

District heating systems in Ireland

Contribution of DH in Ireland



DH at EU level



Brussels, 16.2.2016
COM(2016) 51 final

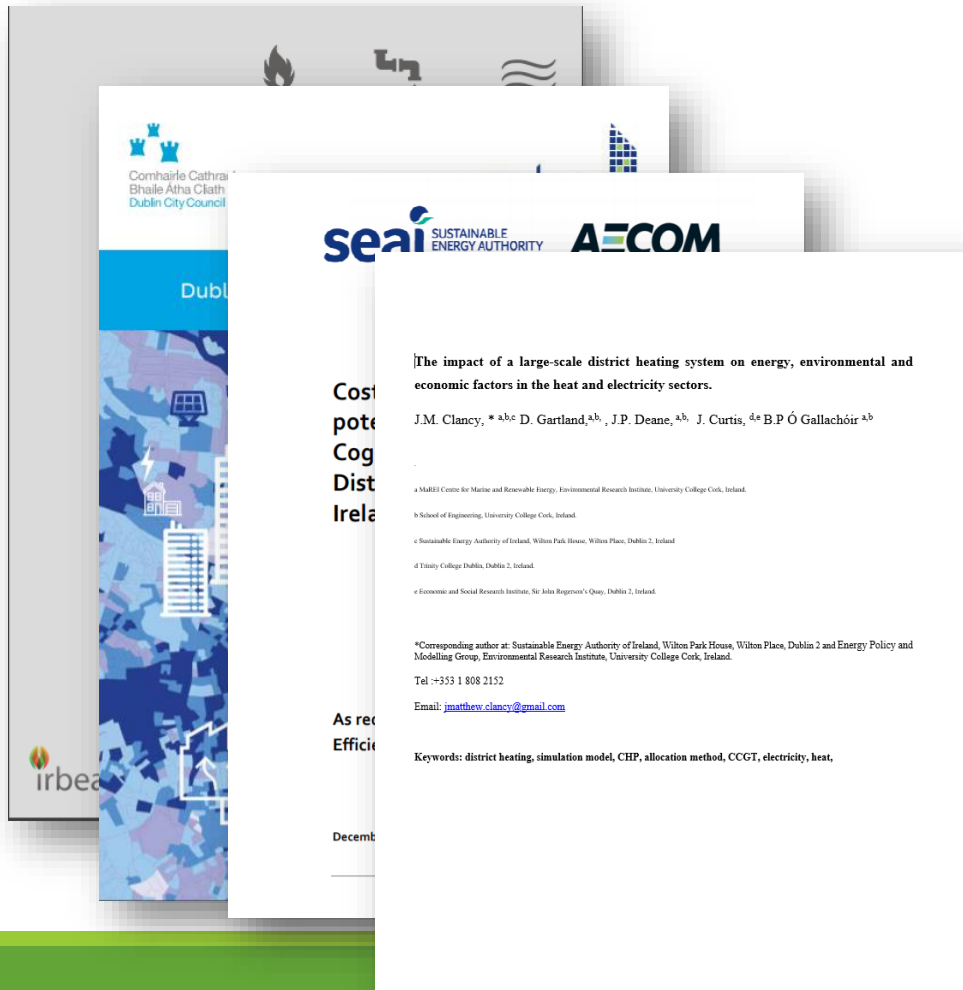
COMMUNICATION FROM THE COMMISSION TO THE EUROPEAN
PARLIAMENT, THE COUNCIL, THE EUROPEAN ECONOMIC AND SOCIAL
COMMITTEE AND THE COMMITTEE OF THE REGIONS

An EU Strategy on Heating and Cooling
[SWD(2016) 24 final]

EN

EN

DH Research in Ireland



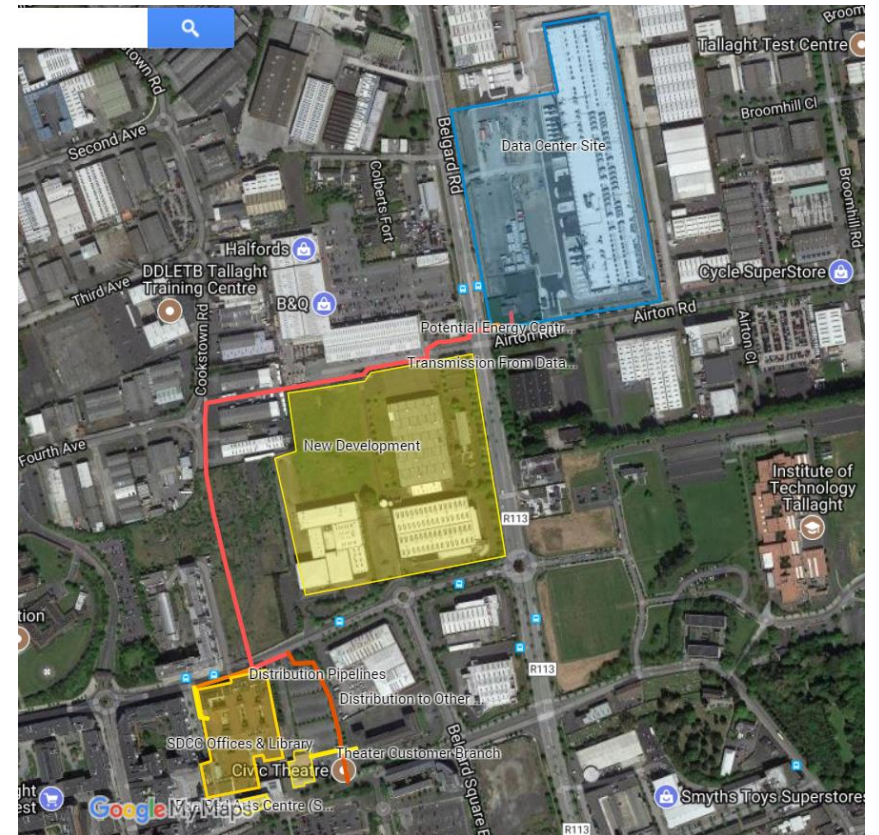
Upcoming Policy

- DCCAE Working Group on District Heating – “*To develop a policy framework to support DH*”
 - Policy & Regulation
 - Planning & Building Regulations
 - Financing
- DHPLG – BER issues & Planning
- EMRA – Regional Strategy consultation



Irish
District Energy
Association

Tallaght District Heating System



IDEA!

- Ideal time to come together to form the Irish District Energy Association
- Influence policy, stay informed, networking
- Work together to develop successful DH industry in Ireland

Overview of IDEEA

DAVID CONNOLLY

About Me

- 2003-2011:
 - B.Eng in Mechanical Engineering
 - PhD in Energy Modelling, University of Limerick
- 2011-2017:
 - Assistant/Associate Professor, Aalborg University
 - Coordinator of the Heat Roadmap Europe Project
- 2017-Present:
 - Head of Policy, Irish Wind Energy Association

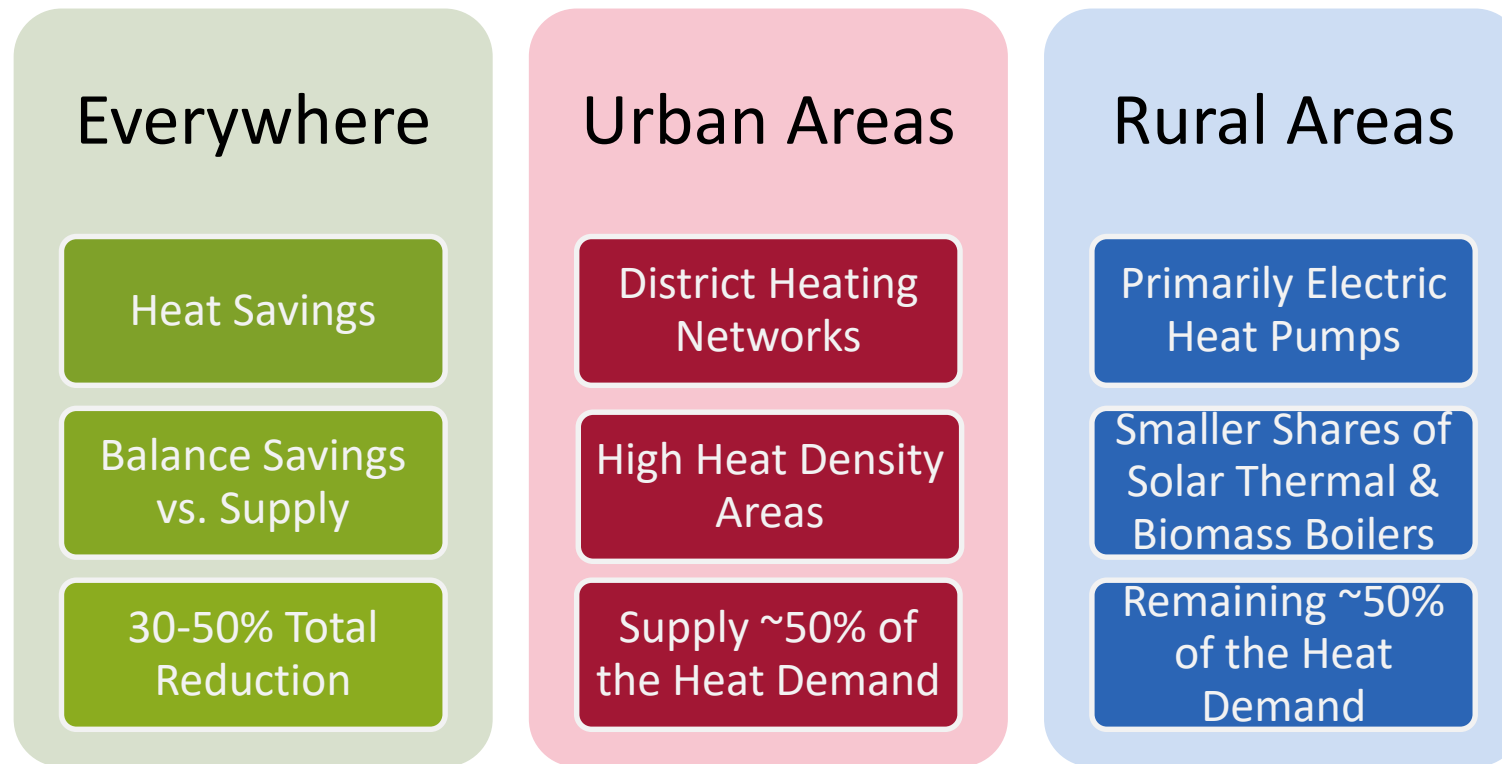


UNIVERSITY of LIMERICK
OILLSCOIL LUIMNIGH



Heat Roadmap Europe

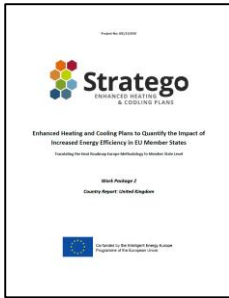
Key Recommendations for the Heat Sector



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 695989.

www.heatroadmap.eu
@HeatRoadmapEU





Example of Results for Each Country: UK



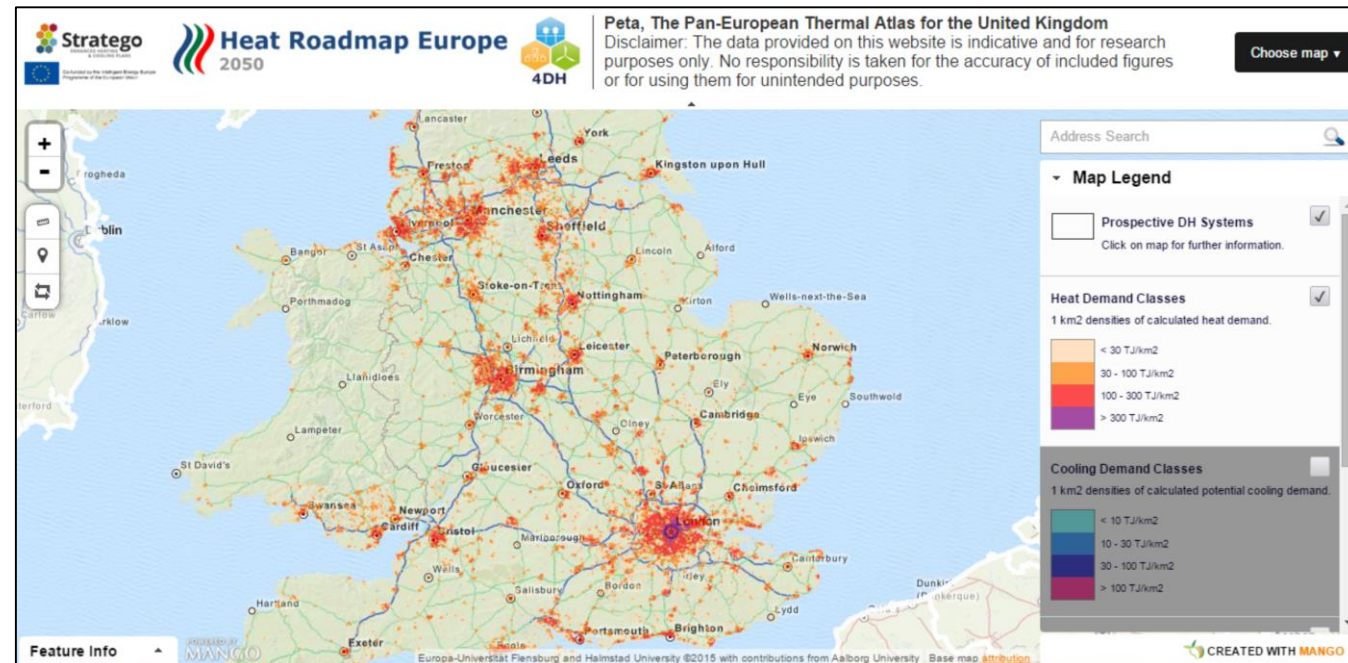
- 480 TWh: Total heat demand in buildings
- 410 TWh: Potential Excess Heat Available (excluding nuclear)
- 65 TWh: Renewable Heat Potential in DH areas (excluding biomass)
- Heat Savings can cost-effectively reduce the demand by 40% (estimate)
- District heating can provide 70% of the heat demand, due to high heat densities ($>100 \text{ TJ/km}^2$), compared to $<5\%$ today

Can reduce:

- Cost: -10%
- Demand: -20%
- CO₂: -25%

Can Increase:

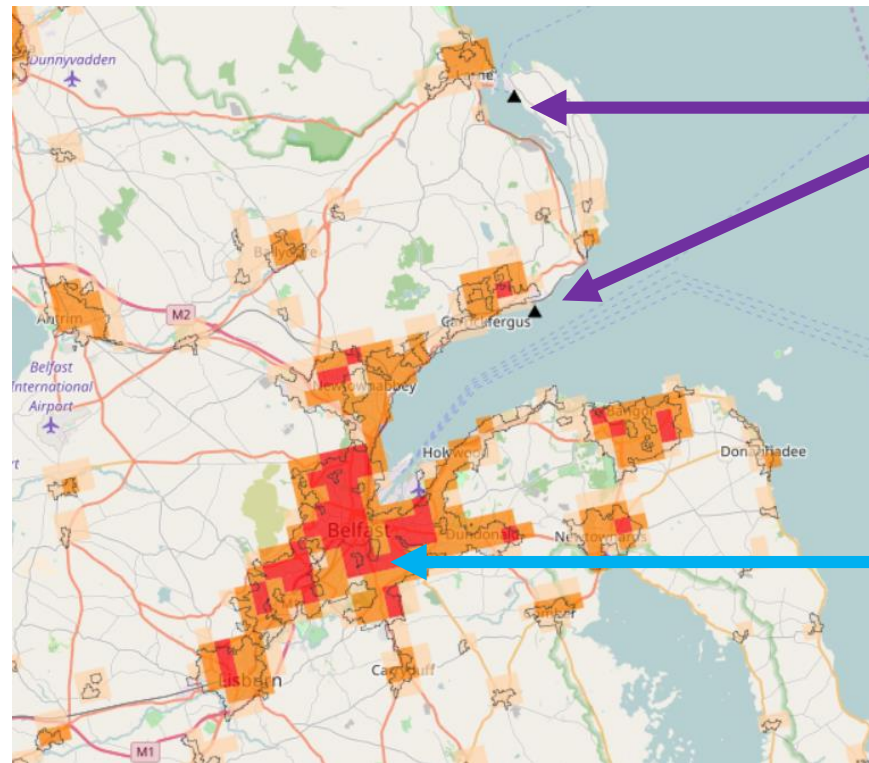
- Renewables
- Jobs



Why Am I Here?

1) I believe Ireland has a Huge District Heating Potential

District Heating in Belfast



20 PJ/year of excess
heat from these
two power plants

16 PJ/year heat
demand

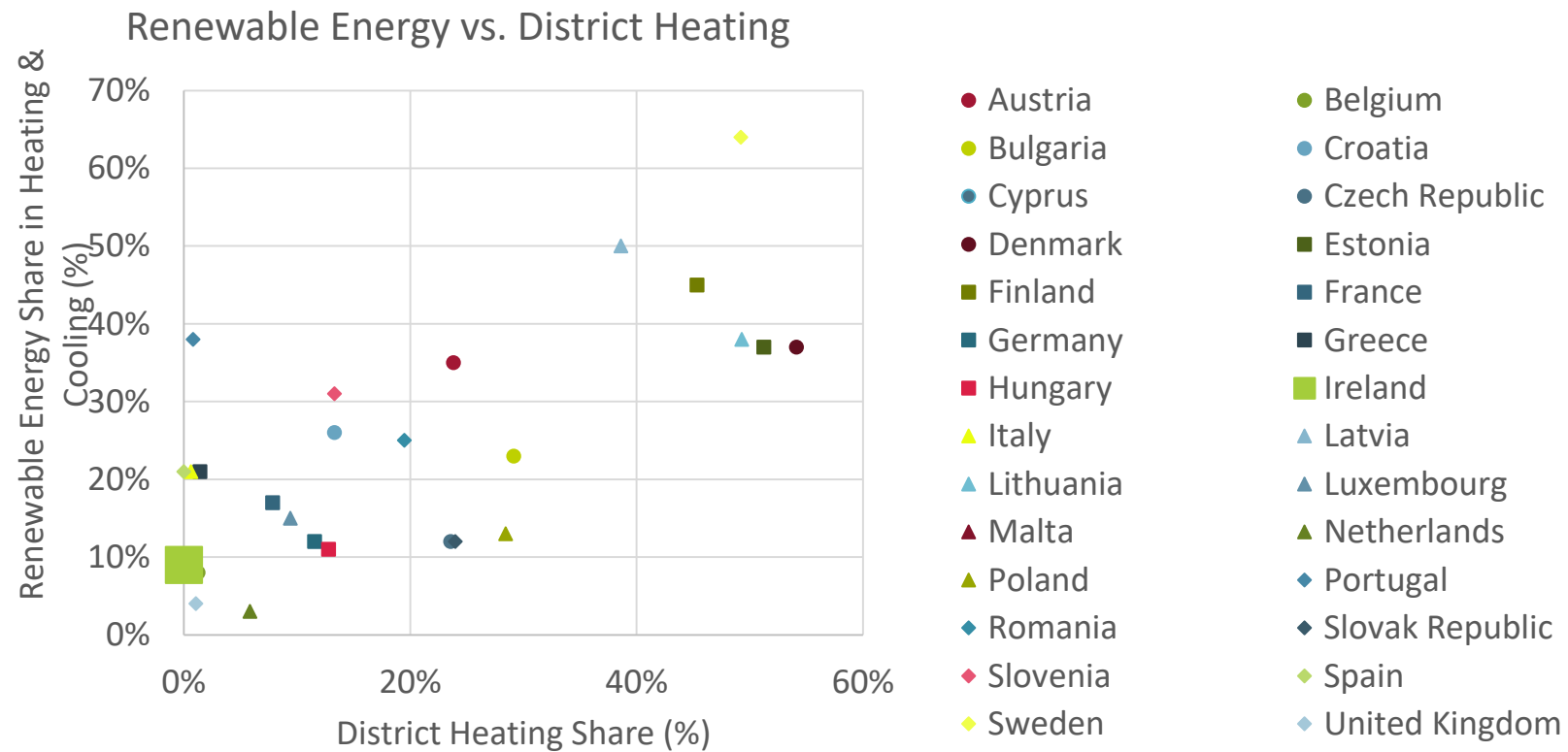


This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 695989.

www.heatroadmap.eu
@HeatRoadmapEU



2) Renewable Heat vs. District Heating



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IDEA

IRISH DISTRICT ENERGY ASSOCIATION

Aims & Objectives

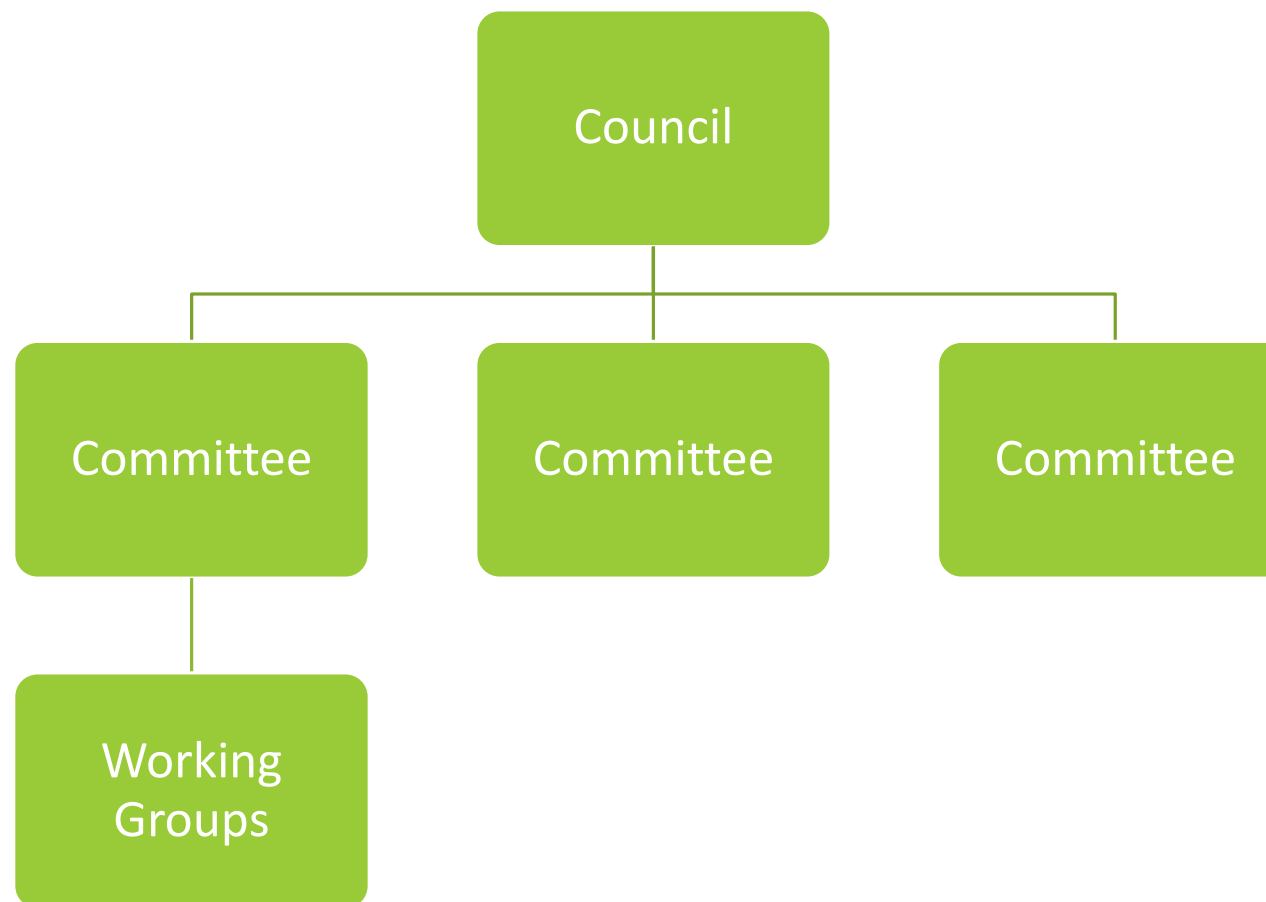
Share	Share information to develop best practice at each stage of the district heating system life cycle (Design, Installation, Operation).
Promote	Promote the benefits and use of district heating in both public and private sectors.
Act	Act as the industry representative body for district heating in terms of development of strategy, policy, regulation and standards.

Structure

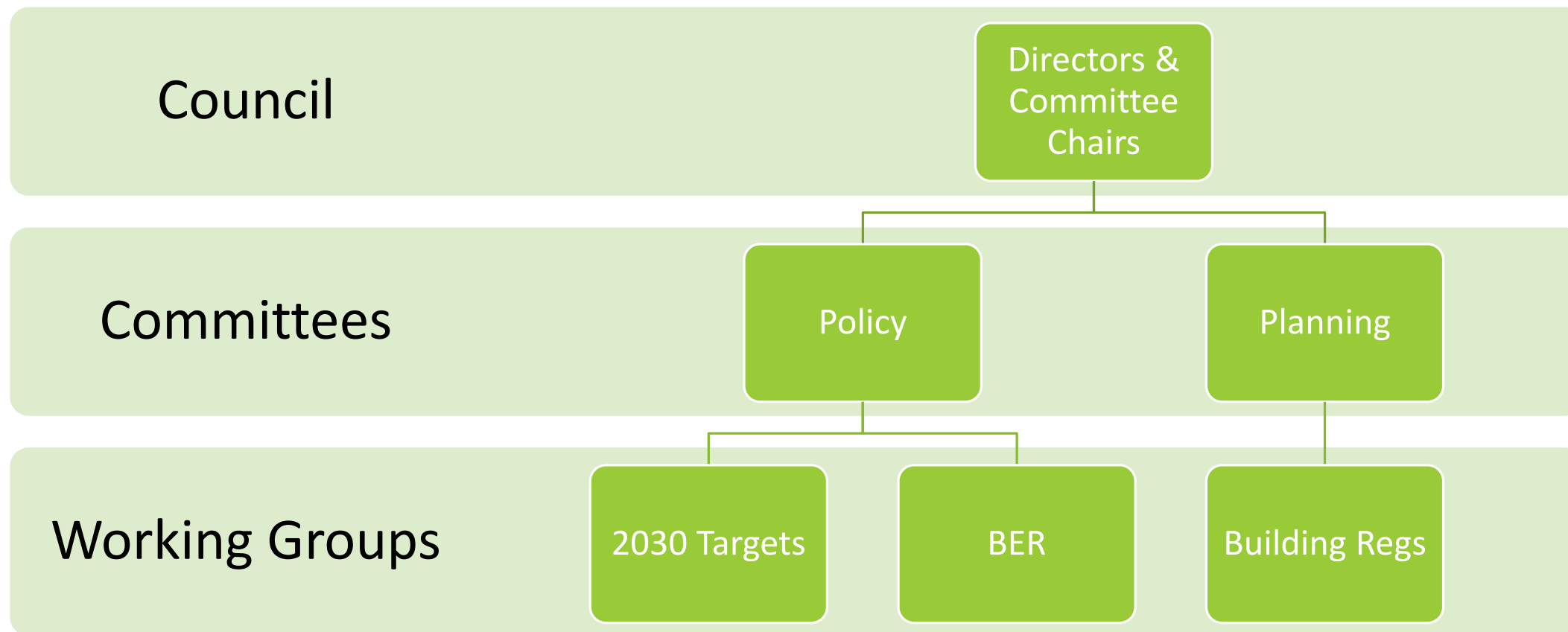
Governance Code for Community and Voluntary Organisations (CVC Code)

1. Ensure effective leadership (strategy, business, structures)
2. Exercise control over the association (legal, financial, risks)
3. Be Transparent & Accountable
4. Work Effectively as a Collective (clear decision-making & understanding of roles)
5. Behaving with Integrity

IDEA Structure: High-Level



IDEA Structure with Examples



Membership

Corporate

- Influence Strategic Direction of IDEA



Associate

- Informed & Involved



Ordinary

- NGOs/Community Groups/Individual/Academic

Council

MEMBERS & MEETINGS

- Directors & Committee Chairs
- Chairs are elected by Committee Members:
 - First preference for Corporate Members up to Revenue share
- Propose 2 Meetings/year
 - Jan = Review year gone by and prepare for upcoming year
 - June = Performance Review and Aligned with AGM

RESPONSIBILITIES

- Define Strategy
- Monitor Progress
- Resolve Contentious Issues
 - Majority Rule, Chairperson Casting Vote
- Create and dissolve Committees

Directors

- Current Directors:
 - David Connolly (Chairperson)
 - Donna Gartland
- Responsibilities:
 - Financial & Legal of IDEA
- Proposal:
 - No additional directors until IDEA is established
 - Council in time is likely to become the 'Board of Directors'



Committees

Chair:

- Elected by Committee Members for 2 years
- Corporate Members are Prioritised (until revenue share is exceeded)
- Reports to and Attends Council Meetings
- Arranges and Coordinates Committee meetings e.g. agendas, conference calls, meetups, minutes

Members:

- All members are eligible to one seat
- Must attend and participate in calls

Working Groups (if necessary):

- Established on an Ad Hoc Basis to Deal with Specific Issues
- For example, a consultation response
- Chair of the Committee can nominate a Chair of the Working Group

Policy

Planning

Economics

Technology & Standards

Proposed
Committees:
Aligned to
National
Framework

2018

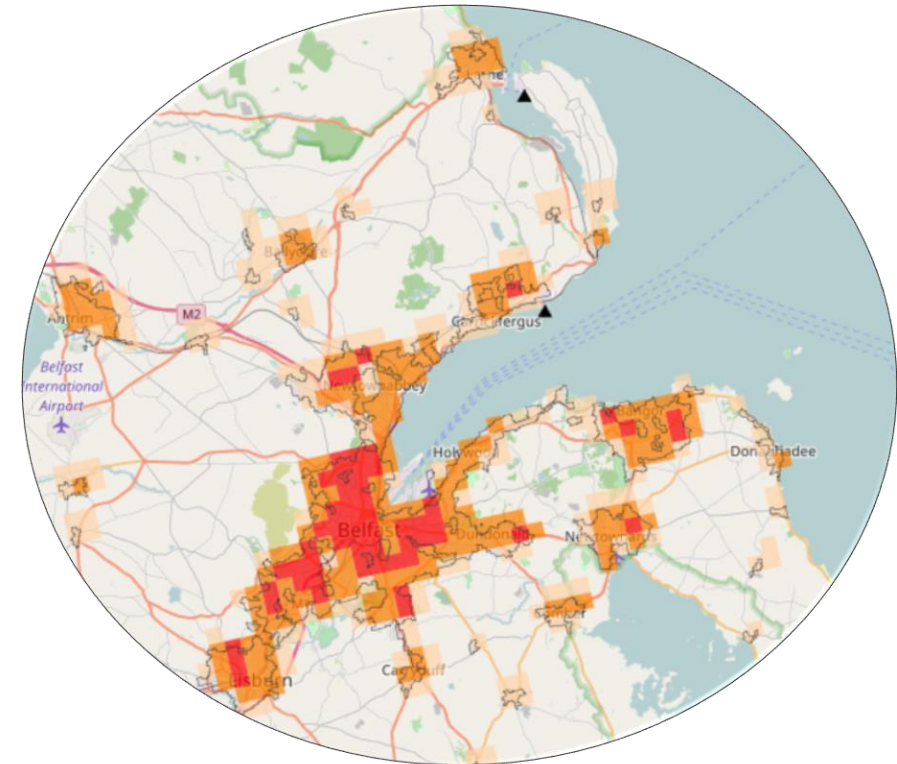
Proposed Objectives for 2018 (1 of 2)

- Establish IDEA as an organisation
 - Members, governance, strategy
- Biannual Newsletter/ Industry Updates
 - News/policy/ongoing work
- Connect with International Organisations
 - Euroheat & Power: potential to host **conference in 2021**
 - Commercial entities looking to establish/grow in Ireland



Proposed Objectives for 2018 (2 of 2)

- Create an Online Profile:
 - Update website, including forum for members
 - Promote IDEA on Social Media e.g. Twitter
- Develop an Irish Heat Atlas for Members
- Provide Input to Relevant Consultations:
 - National Framework for District Heating
 - 2030 Energy Targets



Proposed IDEA Events in 2018

- Kick-off workshop – January 2018
- Annual Conference
- Biannual Council Meetings
- Ongoing Committee Conference Calls



Funding = Membership

Membership

Corporate

- Influence Strategic Direction of IDEA



Associate

- Informed & Involved



Ordinary

- NGOs/Community Groups/Individual/Academic

Type & Cost of Membership (excluding VAT)

- Corporate:
 - >20 employees, >1 MW_{el/th}, >€1 Million Revenue: €2000
 - Public Institutes for additional benefits
- Associate:
 - Commercial: <20 employees, <1 MW_{el/th}, <€1 Million Revenue: €500
 - Public Institutions
- Ordinary: NGO/Individual/Academic: €200

Proposed Membership Benefits

IDEA Membership Benefit		Corporate	Associate	Ordinary*
INFLUENCE	Can Apply to Committees & Working Groups	✓	✓	✓
	Can Apply to Council/Chair of Committee	✓	✓	
	Vote at AGM	✓	✓	
	Priority to become Committee Chairs	✓		
NETWORK	Conference Fees Covered	4	1	1
	Access to Online Forum	✓	✓	✓
	Discounted Rates for Conference Exhibition Stands	✓		
INFORMED	Biannual Newslettter/Industry Update	✓	✓	✓
	Access to Member Area of IDEA Website	✓	✓	✓
	Update on Tenders	✓	✓	
	Access to IDEA Heat Atlas (if developed)	✓		
MARKETING	Listed on IDEA Website	✓	✓	✓
	First Invite for Speakers at Workshops*	✓		
	First Invite for Sponsorship*	✓		
	First Invite for Communication Contributions*	✓		

slido

Three easy steps
for your audience to join in



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Go to slido.com



Join with event code

Event Number: #Z906

Questions?
