



The Town & Country Planning Association and the SPECIAL Project

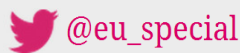
APSE Energy Seminar

Matlock, Derbyshire

3 July 2014

Diane Smith

TCPA Assistant Chief Executive



Co-funded by the Intelligent Energy Europe
Programme of the European Union



TCPA Objectives



Secure a **decent, well designed home for everyone**, in a human-scale environment combining the best features of town and country

Empower people and communities to influence decisions that affect them

Improve the planning system in accordance with the principles of **sustainable development**



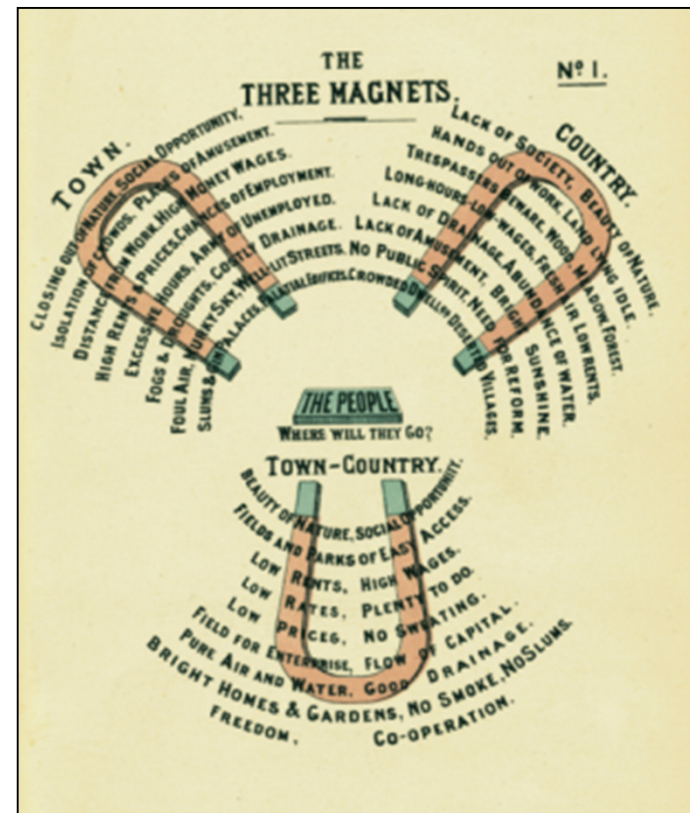
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History



Founded as the **Garden Cities Association** in 1899 by **Sir Ebenezer Howard** in response to 19th century problems.



‘Town and country’ must be merged



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Garden Cities & New Towns



What makes a Garden City for today?



Find out more at www.tcpa.org.uk

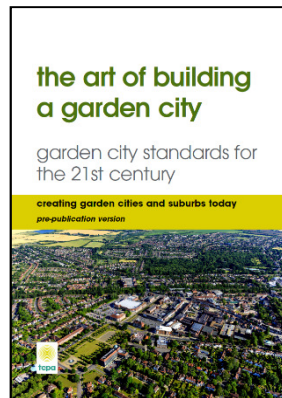
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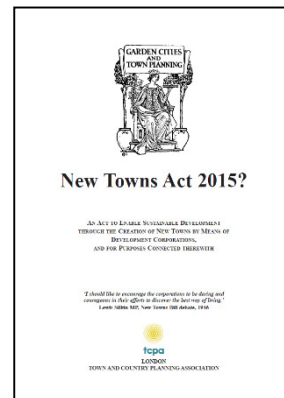
Garden Cities & New Towns



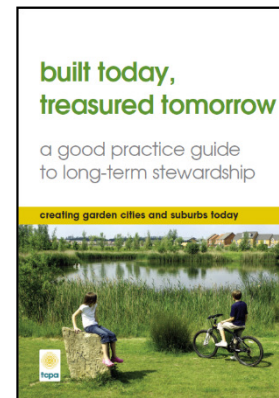
Our recent publications include:



June 2014



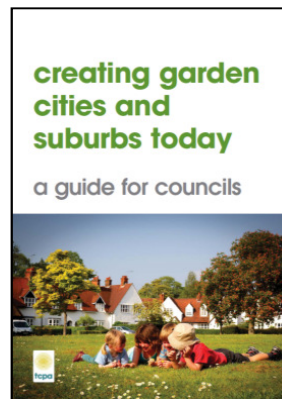
February 2014



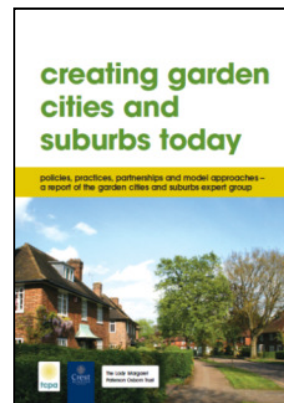
December 2013



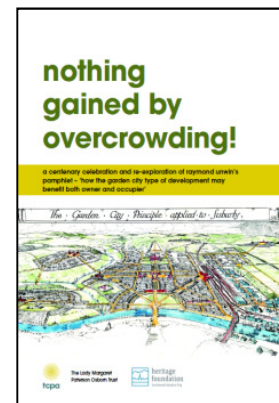
November 2013



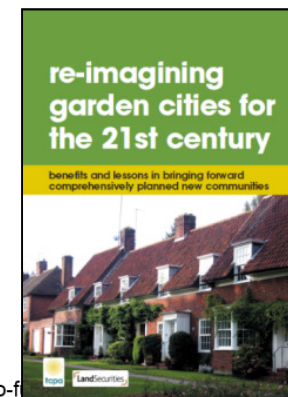
March 2013



May 2012



April 2012



Co-funded by the European Union
June 2011





Garden Cities & New Towns



Holistic approach

- Climate change
- Green Infrastructure
- Poverty and Equality
- Health
- Culture
- New Communities



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Climate Change



Planning and Climate Change Coalition (PCCC)

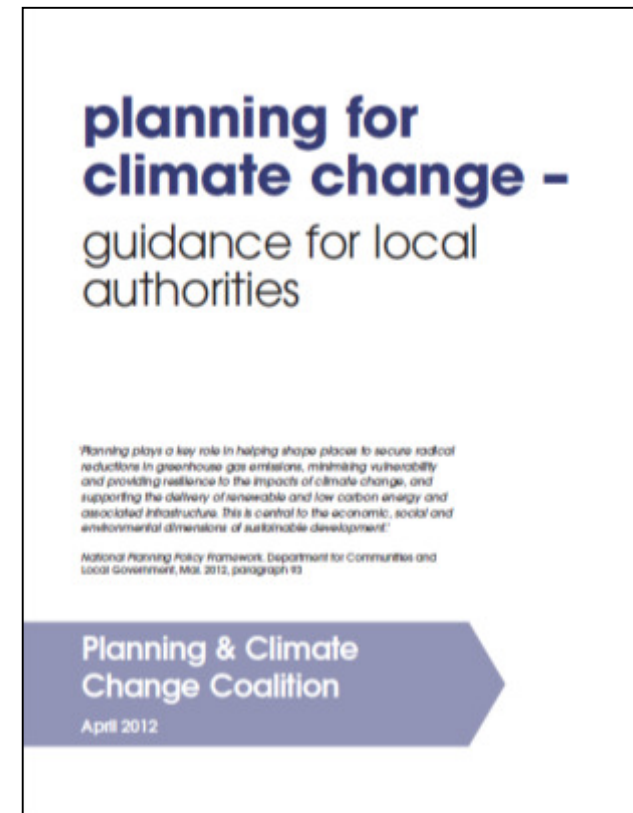


Coalition of over 60 cross-sector organisations and individuals

Planning guidance and model policies on climate change for local authorities

Research – East Coast Spatial Futures

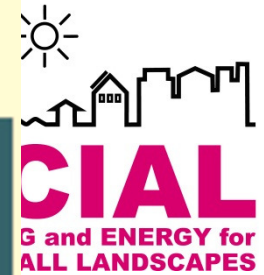
***2014 MANIFESTO TO BE LAUNCHED IN SEPTEMBER!
SIGN UP NOW!**



April 2012



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**Local authority
planning departments
and development
trusts delivering
exemplary large-scale
new developments of
over 3,000 dwellings**

- Helps **develop proposals** for large scale new development
- Encourages a **sharing of knowledge** and best practice through seminars, workshops, study visits, parliamentary meetings and newsletters
- Together the group is providing innovative local leadership for plans delivering over **53,000 new homes**

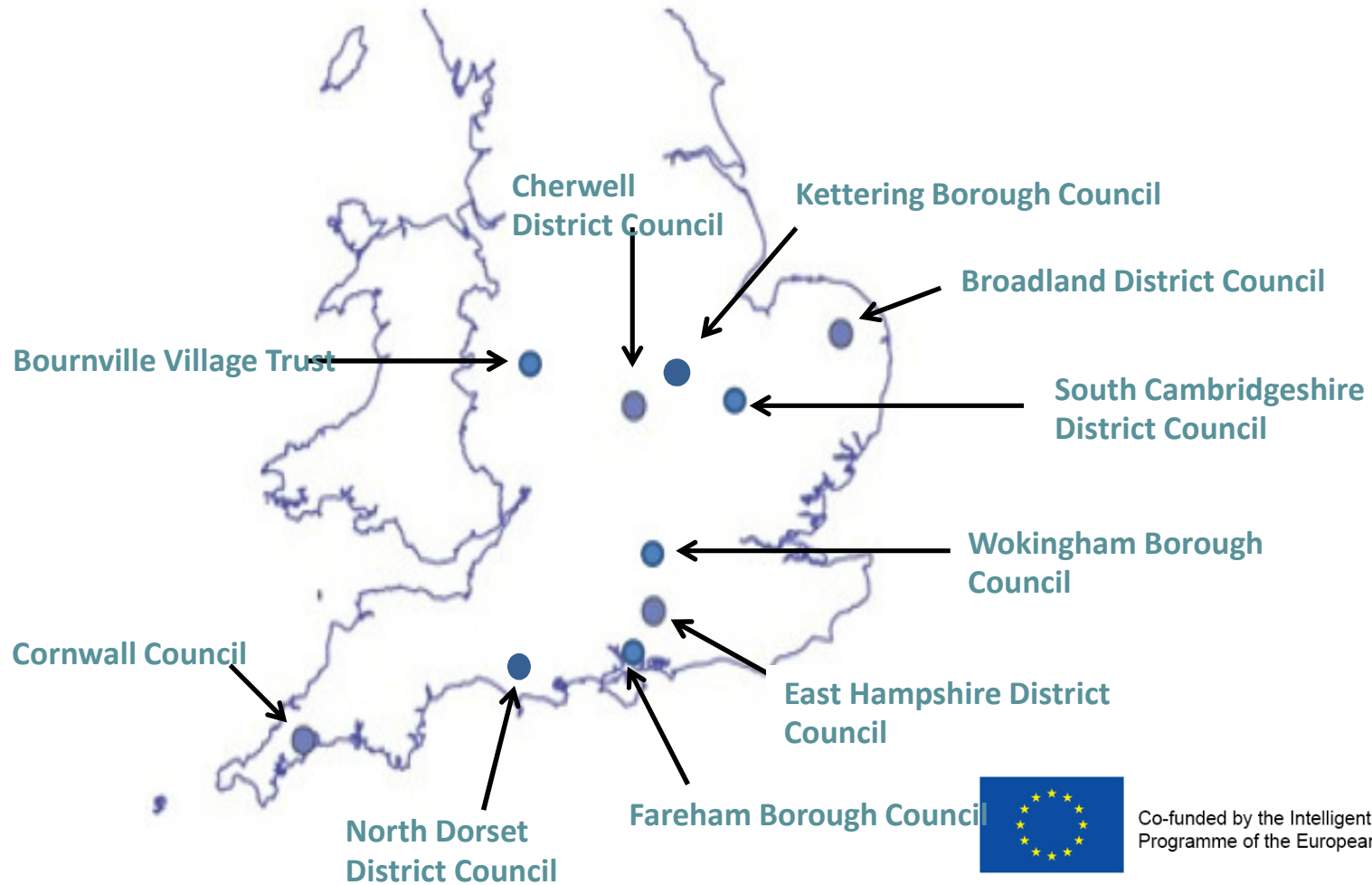
For more information contact: Alex.House@tcpa.org.uk



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Member locations



Co-funded by the Intelligent Energy Europe Programme of the European Union



- LEAP and SPECIAL are funded by Intelligent Energy Europe (IEE)
- **LEAP:** April 2011 – November 2013
SPECIAL: March 2013 – February 2016
- Sixteen partners from 12 member states taking part across the two projects



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- A **Vision**, specifying the overall CO₂ emissions reduction target by 2020 and the priority areas of action.
- A **Baseline Emission Inventory**, offering a clear picture of the current situation in terms of energy consumption and CO₂ emissions
- A **comprehensive set of actions**, with indicative budget, time frames and assigned responsibilities.



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- EU initiative launched in 2008 by the Commission – DG ENERGY to endorse and support local and regional authorities in the fight against climate change
- Voluntary commitment of signatories to meet and exceed the EU **20% CO₂ reduction** target through the implementation of a **Sustainable Energy Action Plan** of the municipality or regional authority



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33 UK Signatories – 8 in APSE energy

- ABERDEEN CITY COUNCIL
- DARLINGTON BOROUGH COUNCIL
- KNOWSLEY METROPOLITAN BOROUGH COUNCIL
- MIDDLESBROUGH COUNCIL
- NEWCASTLE CITY COUNCIL
- NOTTINGHAM CITY COUNCIL
- SOUTHAMPTON CITY COUNCIL
- STOCKTON-ON-TEES BOROUGH COUNCIL



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Building the capacity of Town Planning Associations to plan and deliver sustainable energy solutions

Integrating spatial planning and energy planning





SPECIAL Key objectives



- To build the capacity of Town Planning Associations to integrate sustainable energy solutions into spatial planning training, practice, and delivery.
- To exchange experience and competences to deliver the integration of sustainable energy into spatial planning strategies at local and regional levels.
- To improve the energy-related competence of planners working within local authorities through piloting integrated spatial planning strategies for low carbon towns and regions.



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SPECIAL Partners



- UK:** Town & Country Planning Association
- Sweden:** Swedish Society for Town & Country Planning
- Ireland:** Irish Planning Institute/South Dublin CC
- Hungary:** Hungarian Urban Knowledge Centre
- Italy:** National Centre for Town Planning Studies
- Greece:** The Org. for the Master Plan and Environmental Protection of Greater Macedonia (ORTH)
- Germany:** German Institute of Urban Affairs
- Austria:** Provincial Govt of Styria, Dept Spatial Planning



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Portfolio of modular training materials



1. Challenges of climate change and sustainable energy supply
2. Framework of spatial planning and sustainable energy
3. Strategies, tools and instruments for integration of spatial planning and sustainable energy
4. Infrastructure and implementation at a local level
5. Stakeholder inclusion, participation processes and communications



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SPECIAL working process



- Partners will develop bespoke portfolios by working with multiplier organisations
- Continuous interactive process of learning and exchanging
- Case studies, webinars, study visits, GIS mapping, national planning systems, exchange visits



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UK SPECIAL Multipliers



1. **RTPI Learn** (Royal Town Planning Institute – online modules)
2. **PUSH** (Partnership for Urban South Hampshire)
3. **Sustainability East** (Climate change partnership in the East of England)
4. **CLASP** (Climate change partnership in North West England)
5. **Association for Public Service Excellence (APSE) Energy** - Local Authority Energy Collaboration
6. **Hertfordshire County Council - Building Futures** (Sustainable Design Toolkit and Awards, & Herts Design Review Panel)
7. **Department for Energy and Climate Change**
8. **TCPA groups** (Policy Council, Trustees, New Communities Group and Planning & Climate Change Coalition)



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What we can offer



- Resources
- Cross sector workshops
- Networking with other Multipliers
- Study visits (UK, Hamburg)
- Political awareness
- Case studies
- Assignments



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We need your ideas!



What training / events on the integration of planning and energy would be useful for you?



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Planning context and lessons from Europe: best practice in spatial planning and energy

3rd July 2014, APSE Energy
Dr Hugh Ellis, Head of Policy
TCPA



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Overview



- **Planning context – challenges and opportunities**
 - New policy context for planning and energy in England
 - Integrating energy and spatial planning
- **Lessons from Europe: best practice in spatial planning and energy – case studies**

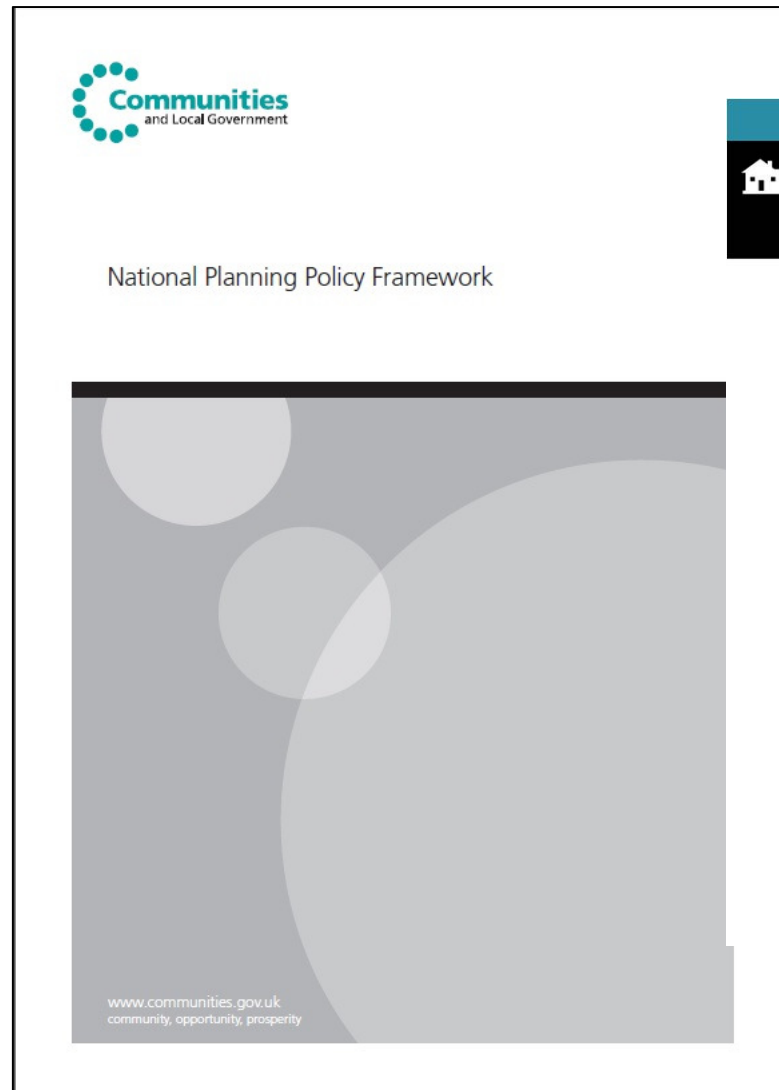


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Planning reform



New policy context for planning and energy in England



This site is currently in Beta. [Read more](#)

National Planning Practice Guidance

[National Planning Policy Framework](#) [Planning Practice Guidance](#)

Welcome to the home of the National Planning Policy Framework for England and supporting national planning practice guidance.

This site is currently in [Beta](#) for testing and comment. The draft planning practice guidance on this site has not yet been finalised. Existing guidance will not be cancelled until the new planning practice guidance is published in its final form.

We want to know what you think about how this site works and the draft guidance. Please give us your [feedback](#) during Beta, which lasts until 9 October 2013.

Search for

The National Planning Policy Framework

Planning Practice Guidance



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Integrating energy and spatial planning



1. Corporate energy strategy
2. Strong evidence base
3. Strong local plan policy



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Lessons from training weeks



England



Sweden



Germany



What makes delivery of sustainable energy successful?



Key Issues:

- Differences in planning structures and policy
- Differences in culture and politics
- Finance and funding
- Skills and resources
- Social justice





England: Strengths and weaknesses



Strengths

- Strong planning powers at the local level

Weaknesses

- Weak national policy on linking spatial planning and energy
- BIG SIX Oligarchy
- Uncertainty of investment
- Weaknesses in building standards
- Lack of skills
- Lack of political commitment





England: Examples

- Nine Elms and Battersea Power Station – energy opportunity mapping
- GLA District Heating Manual for London planners
- Thamesway Energy's Central Milton Keynes district energy network
- Community wind – Gamlingay, South Cambridgeshire





Sweden: Strengths and weaknesses



Strengths

- Strong on policy at national level
- Positive behavioural change
- Local authority planning and energy departments working together
- Nuclear power

Weaknesses

- Not that strong planning structures
- Low on social justice
- Investment – privatisation of energy
- Shift from DHP to private control
- Nuclear power





Sweden: Example



- **Western Harbour, Malmö**

The comprehensive planning approach has created a new area of Malmö in the Western Harbour which relies on **100 % locally renewable energy**:

- Sun, wind and water
 - District heating linked to City DH system
 - Minimised energy consumption
-
- **Integrated spatial planning & energy planning**
 - Energy planning team integrated within the Planning Department of the municipality
 - Environment Department = driving force in the Western Harbour, working groups combining all departments in the planning of the development





Germany: Strengths and weaknesses



Strengths

- Strong political structures – Federal and local government
- Culture – open, honest, consensus on renewables
- Local authority ownership of energy generation AND supply
- Social justice and inclusive strategies
- Several funding streams at local and Federal level

Weaknesses

- Policy not stronger
- Spatial planning not stronger



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Germany: Examples

- **Hamburg – Energy hill and Energy Bunker**

- The Energy Bunker and Energy Hill were excellent examples of how renewable energy had been positively planned for.
- The lead role of the municipality in Germany allows for much more integrated approaches with spatial planning.

- **Re-Municipalisation**

- Positive trend in Germany which helps to link spatial planning and energy planning.
- Allows more control for municipalities.
- Provides local economic benefits to the community.



Hamburg Energy Hill



From toxic waste dump to prime example of renewable energy generation




Images from IBA Hamburg and TCPA



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Landfill to Energieberg

 Power generation

 Heat generation

Supply to 2,000 homes
on the Elbe islands



- 01** Wind power: re-powering the existing wind turbine generators to produce electricity.
- 02** Solar power: photovoltaics installed on the slopes of the Energieberg.
- 03** Biomass: grass cuttings from the Energieberg turned into biogas.
- 04** Geothermal power: the energy in the groundwater and seepage water contributes to heating the information centre.
- 05** Landfill gas: methane gas – a waste fermentation product – is thermally used by Aurubis AG.

Wind power

Solar power

Biomass

Geothermal
power

Methane
gas



Hamburg Energy Bunker



Former air raid bunker converted to hot water storage from renewable forms of energy.

Supplies district with renewable heat, while feeding renewable power into the Hamburg distribution grid.




Hamburg Energy Bunker




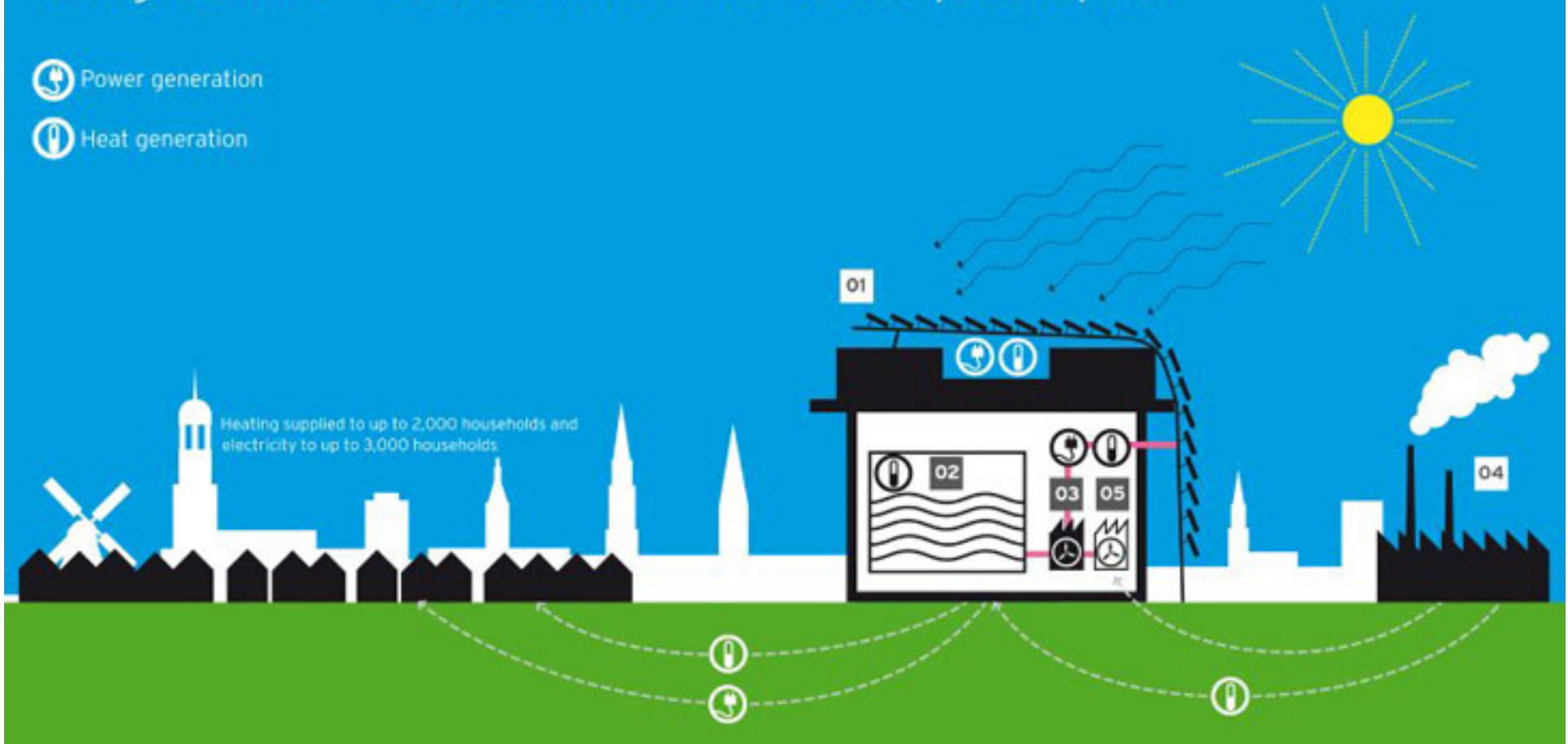
Hamburg voraus

INTERNATIONALE BAUAUSSTELLUNG HAMBURG

Energiebunker - transformation into an eco power plant

 Power generation

 Heat generation






SPECIAL
SPATIAL PLANNING and ENERGY for
COMMUNITIES IN ALL LANDSCAPES



Linking Spatial Planning and Energy Planning: Recommendations



1. Strong **political leadership** and support
2. Effective and inclusive **cross-departmental working**
3. Effective and **integrated policy frameworks** at regional, city and masterplan scales
4. Effective and transparent **public-private partnerships** and **funding streams**



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