GBPN
Global Buildings Performance Network

Building Policies for a Better World

The Role of Understanding BPIE and GBPN Thesaurus

Webinar

Statistical Data on Europe's Building Stock

28 November 2013

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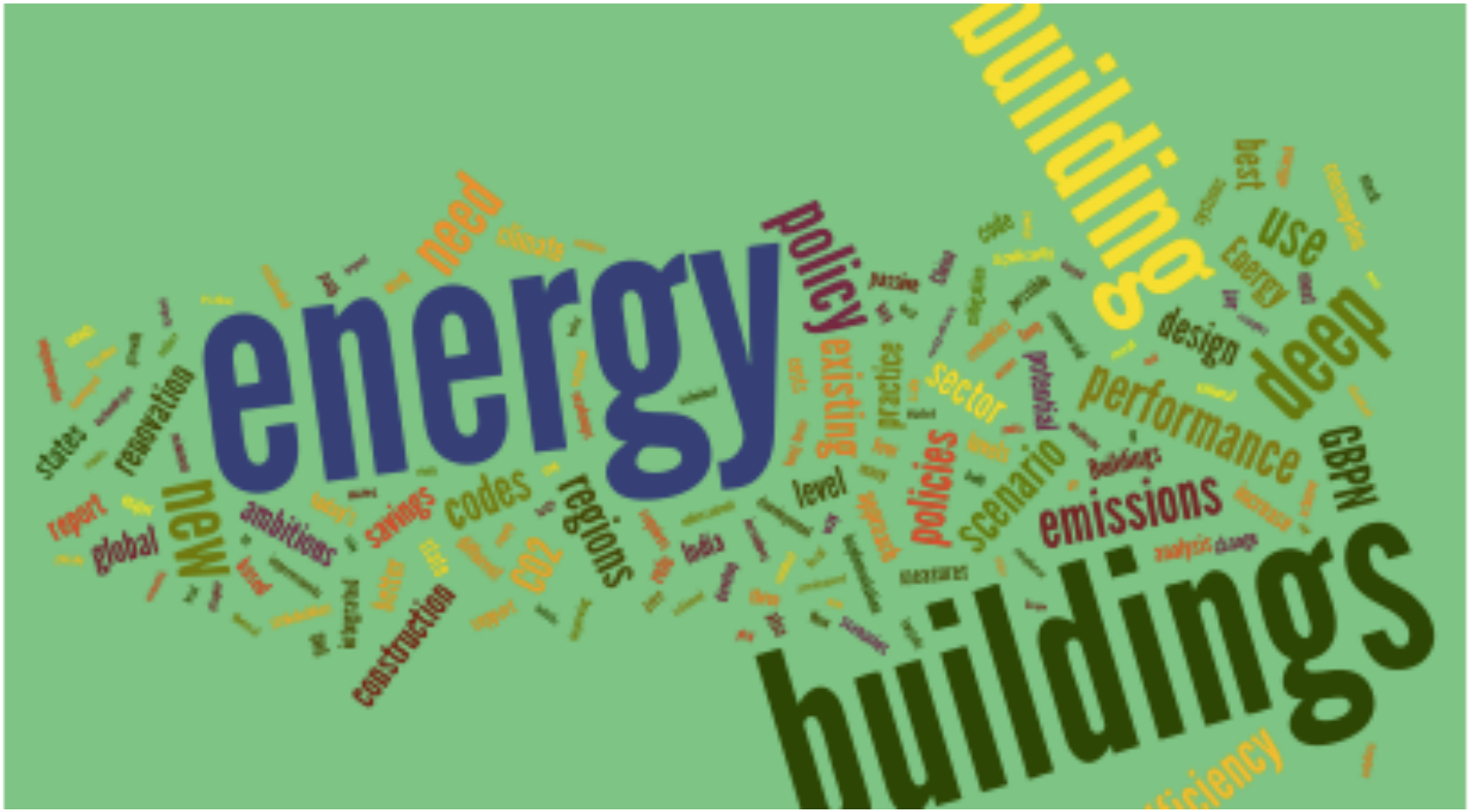
GBPN and BPIE Thesaurus

Aim of this Thesaurus

- Fully Embedded in both websites
- Multiple functions
- Help to create clarity inside Europe
- Clarity cross continental
- Also linking up with other systems
- Easy way to get definitions of words and see relations
- Covering Energy Performance and Policies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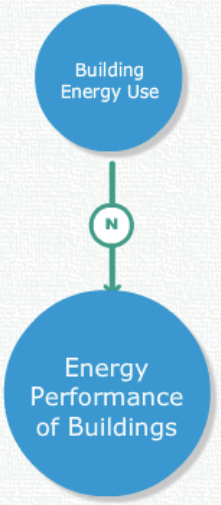
Same Word – Different Definitions

Energy Performance of Buildings

Definition

The calculated or measured amount of energy needed to meet the energy demand associated with a typical use of the buildings, which includes inter alia, energy used for heating, cooling, ventilation, hot water and lighting (EU). [Source: EPBD recast, 2010/31/EU]

A building's total annual energy use and costs for heating, cooling, and electricity and other energy related uses. (US) [Source: ASTM International Standards]



Show definition

Same Topic – Different Words

- Energy Assessor
- Energy Rating Expert
- Energy Consultant
- Energy Certifier
- Independent Energy Expert
- Energy Auditor
- Energy Inspector

Same Topic – Different Concepts

Definition of DR varies between regions.

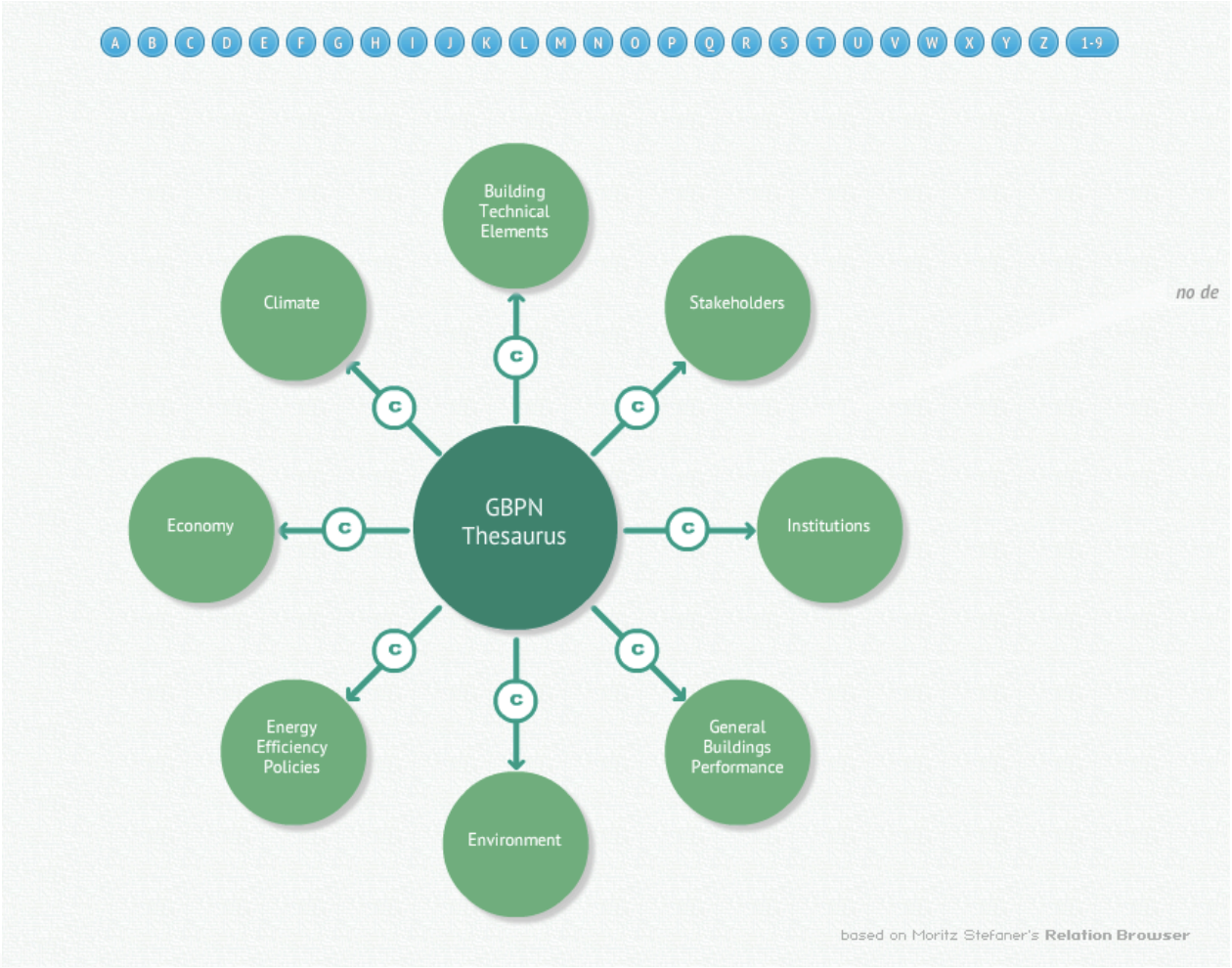
- **EU Experts prefer Deep Renovation.**
- **US Experts prefer Deep Refurbishment**

Also difference in definitions:

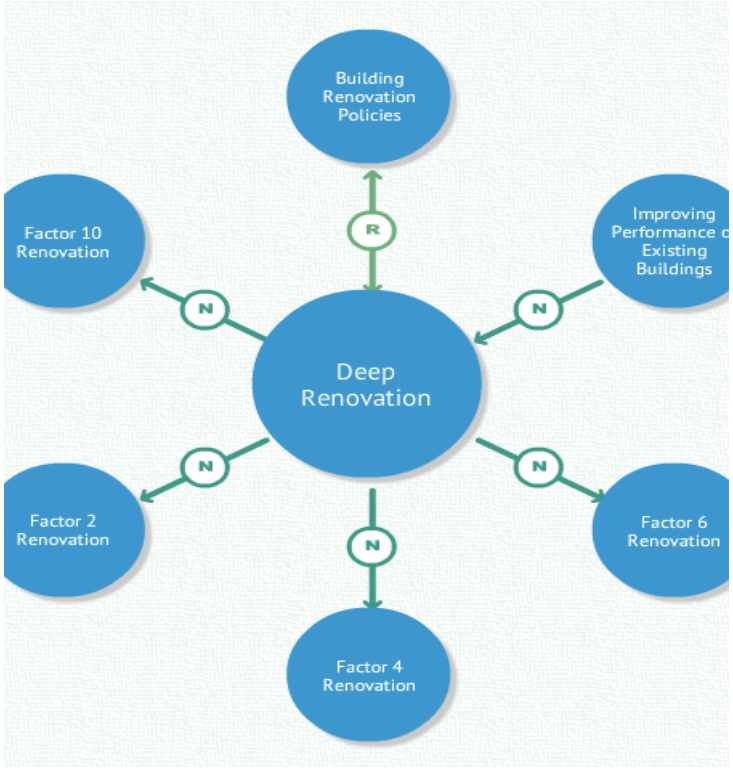
- **In Europe**
- **Heating, cooling, ventilation and hot water**
- **Savings larger than 75 %**

- **US full energy included**
- **Savings usually between 30%-50%**

GBPN Thesaurus



Understanding and Linking GBPN Glossary



- A common understanding of words is critical for working together
  - Words and relations
  - Definition
- Collaboration on text and Data !
  - Avoiding duplication

Deep Renovation HELP GIVE YOUR FEEDBACK

Synonyms: Deep Energy Renovation

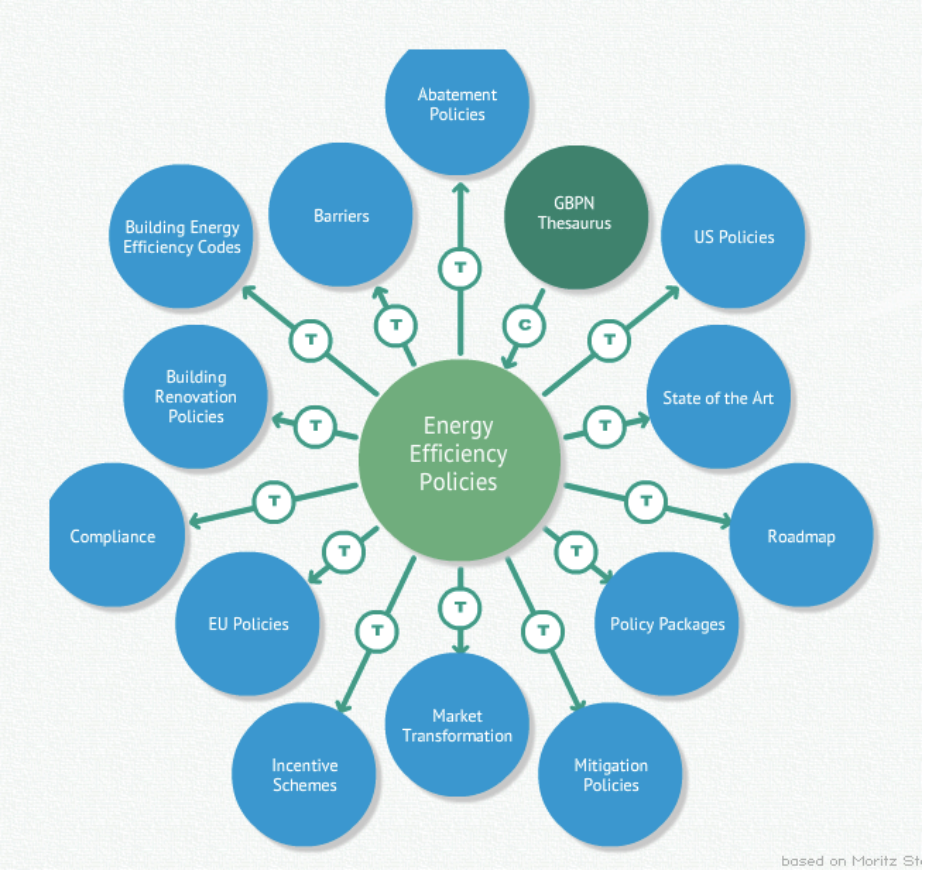
Deep Renovation or Deep Energy Renovation is a term for a building renovation that captures the full economic energy efficiency potential of improvements. This typically includes a focus on the building shell of existing buildings in order to achieve very high-energy performance. The renovated building consumes 75% less primary energy compared to the status of the existing building before the renovation. The energy consumption after renovation for heating, cooling, ventilation, hot water and lighting, is less than 60 kWh/m2/yr. (Definition often used in Europe) [Source: GBPN, 2012]

Deep Retrofit HELP GIVE YOUR FEEDBACK

Synonyms: Deep energy retrofit

Deep retrofit or Deep Energy Retrofit implies replacing existing systems in a building with similar ones that are of higher quality and performance, which leads to a better energy performance of an existing building. The primary energy consumption includes energy used for heating, cooling, ventilation, hot water, lighting, installed equipment and appliances. After the deep retrofit the buildings consume 50% less primary energy compared to the status of theexisting building/s the retrofit (Definition mainly used in US). [Source: GBPN, 2012]

Understanding Different Cultures



In GBPN we link regions together

Found big differences

- Cross Atlantic barriers
- And crossing the Chines Wall

Will be available in Chinese in December

Btu/ft^2

Mtoe/ pers

kWh/m^2

瓦特每平方米

Glosary Explaining

Buildings For Our Future, The Deep Path for Closing the Emissions Gap in the Building Sector

REPORT BUNDLE / BUSINESS, CARBON EMISSIONS REDUCTION TARGETS, POLICIES, POLICY PACKAGES, ROADMAPS / GLOBAL
AUTHORS: GBPN

With the goal of addressing climate concerns through lower carbon use, the GBPN shows that with ambitious improvements in the energy performance of buildings, it is possible to reduce their CO_2 emissions by one third by 2050. The technology is there but policy priorities need re-setting and there must be a more concerted effort to learn from, and apply best practice policies to deliver this significant mitigation potential from buildings. This report sets out the necessary steps towards a "Deep market transformation" and opens a new dialogue on the role and importance of improved energy performance of buildings in today's global and national discussions about energy and climate change policies.

Related News

- Why Buildings Hold the Key To a Low-Carbon Future

Related Laboratory Projects

- Positive Energy Buildings
- More and Deeper Renovation
- Building Performance Data

Related Blogs

REPORTS

- Highlight
- Briefing
- Policy Paper

GLOSSARY

Deep Scenario

The Deep Scenario or Deep Energy Scenario is defined as a scenario, in which state of the art in both new and existing buildings will become the norm in only ten years from now. [Source: Urge-Vorsatz, D. (CEU) (2012) Best Practice Policies for Low Carbon and Energy Buildings-Based on Scenario Analysis]

Energy Performance of Buildings

Moderate

Policy Packages

Construction is Locally BPIE version

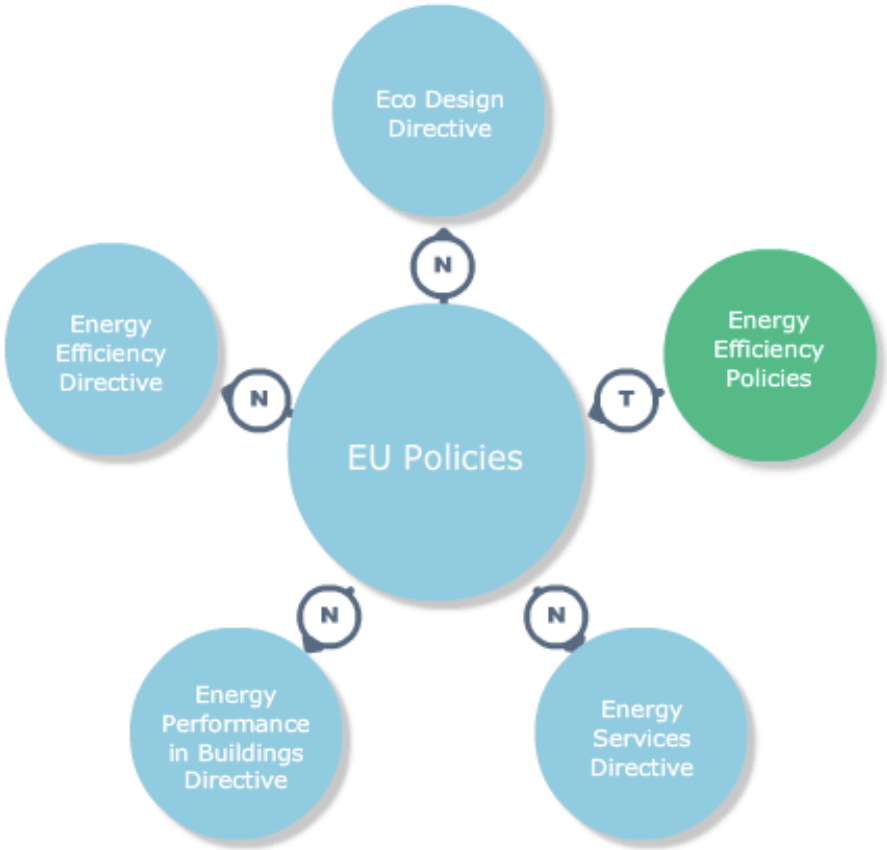
“Thesaurus supporting Linked Open Data!

BPIE Version

- **Functionality the same**
- **Layout a bit different**
- **Some more focus on EU relevant terms**
- **Common development and maintenance of terms**

EU Policies in Focus

A B C D E F G H I J K L M N O P Q R S T U V W
X Y Z



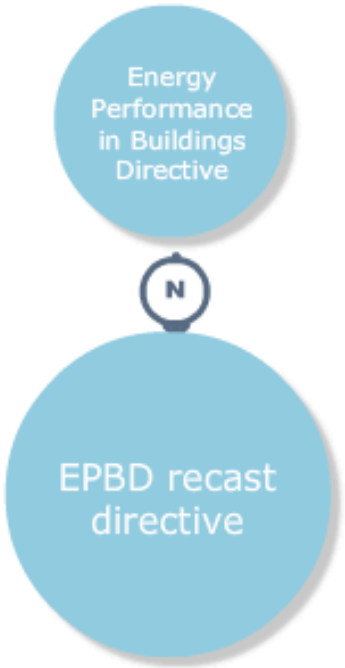
- **EPBD**
- **Definitions to support the EU knowledge hub**

EPBD

EPBD RECAST DIRECTIVE

Definition

Under this 2010 Directive, Member States must establish and apply minimum energy performance requirements for new and existing buildings, ensure the certification of building energy performance and require the regular inspection of boilers and air conditioning systems in buildings. Moreover, the Directive requires Member States to ensure that by 2021 all new buildings are so-called 'nearly zero-energy buildings'. [Source: European Commission]



Sources:

EPBD and the commission in general are major sources for definitions

Linking up to the rest of the world
Want to share experience Globally

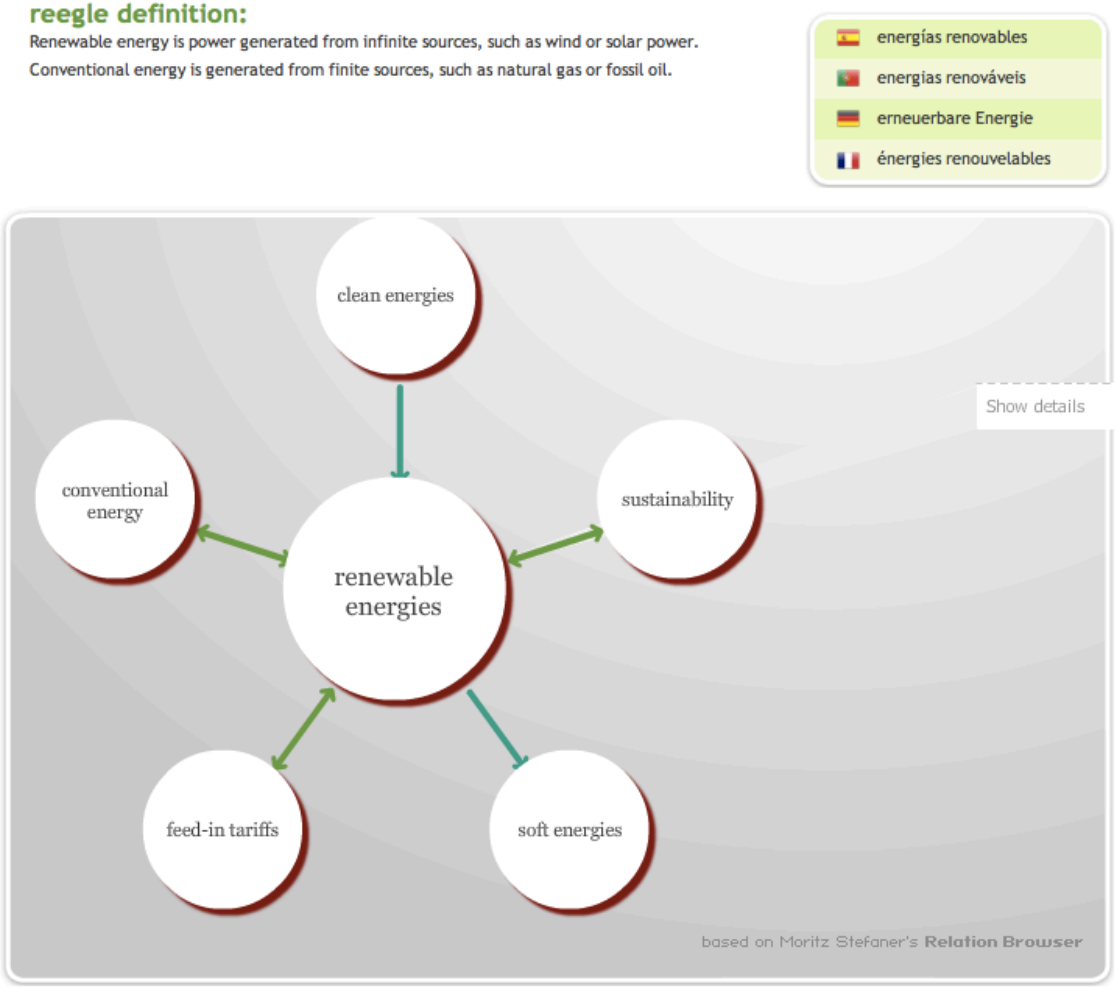
Linking to Rest of World

Thesaurus closely linked up to REEEP's Reegle database

Gives more information on renewable energy

Can link to other sides

Can be included in other websites



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Thank you!

A long walk starts with one step

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