Step by step towards excellence
Energy City Award® / European Energy Award®
Swiss examples

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The Swiss Energy Award

Energy city award® / european energy award®

With the Swiss Energy Award

Cité de l'énergie
european energy award

Energiestadt
european energy award

Città dell'energia
european energy award

«Energy City Award® / european energy award®»,
SwissEnergy program for the municipalities is one of the best performing programs of SwissEnergy

(The SwissEnergy programme aims at promoting energy efficiency and the use of renewable energy. Its main strength lies in close co-operation between the federal government, the cantons and municipalities, and numerous partners from trade and industry, environmental and consumer organisations, and public and private agencies.)

Cité de l'énergie
european energy award

suisse énergie

European Energy Award

The European Energy Award supports municipalities that want to contribute to a sustainable energy policy and urban development through the rational use of energy and an increased use of renewable energies in order to reduce greenhouse gas emissions

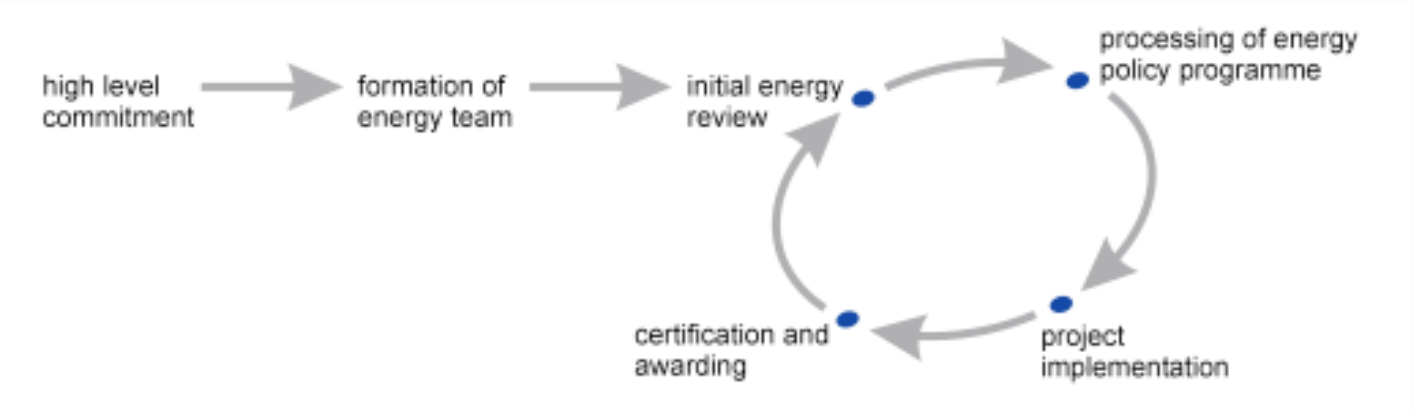
The eea process consists of two main elements :

- A quality management system for communal energy-related services and activities
- Certification and award for energy-related achievements and control of success through regular audit

The eea process step by step

With a qualified instrument for steering and controlling communal energy policy all energy-related activities are systematically reviewed.

The eea process allows municipalities to identify strengths, weaknesses and potential for improvement and, above all, implement effectively energy efficient measures.



The success of a municipality's efforts is made visible by an award.

Energy City

Fields of activities in Europe

4. Mobility
Public transport, Zones low speed, parking management, pedestrian zones, bicycle routes

1. Communal development planning
Energy policy, action plan, regulations and increasing enforcement

5. Internal Organization
Capacity building, policies, strategies, controlling

Energiestadt
european energy award

2. Communal buildings / Facilities
Energy management, building efficiency

6. External communication
Information, Events, local promotion, subsidies

3. Supply and waste disposal
Electricity, distant heating, renewable energies, Water supply, waste treatment

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«Energy City Award® / european energy award®», since 1988

Depending on the degree of implementation of possible measures, a community can be gets certified and awarded with the Swiss national Award - European Energy Award

If 50% of the possible measures are implemented and finalised, the community receives:

Cité de l'énergie
european energy award

If 75% of the possible measures are implemented and finalised, the community receives more:

european energy award GOLD

Energy City Award® / eea®

The label crown and encourages consistent energy policy, based on results

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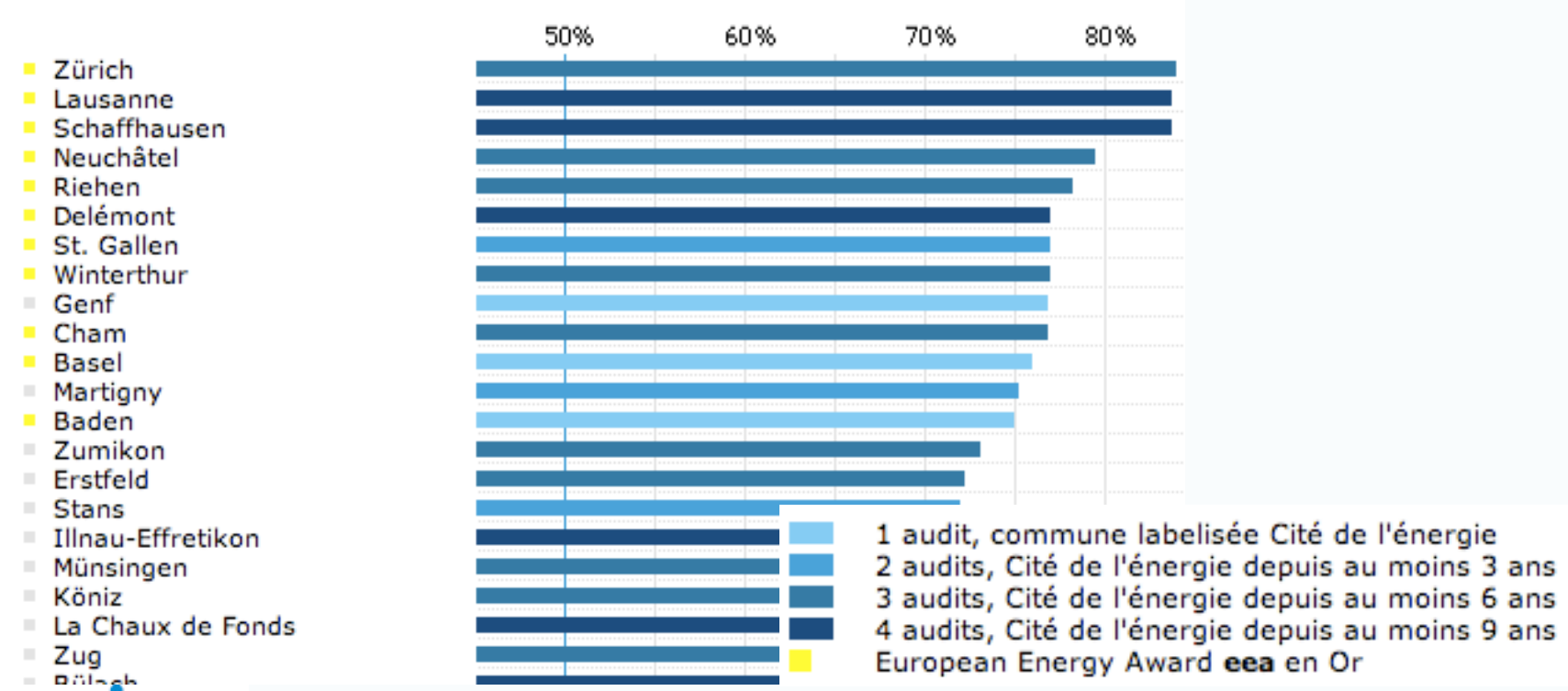
The Swiss Energy Award since 1988

The standardised assessment permits a benchmarking between the eea communities (also in Europe). It allows member cities to share their experiences and expertise.



Example :

Lausanne, one of the best

Energy City Award® since 1996

european energy award® GOLD since 2003

Lausanne

european energy award

Cité de l'énergie

GOLD

Cité de l'énergie

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How the City of Lausanne has improved its performance in its climate and energy activities

- **Passage review** activities related to energy
- **Visualization** of strengths, weaknesses and potential improvement
- Action on the policy **objectives** of the local energy and definition of criteria and **indicators**
- Conducting a program of energy and climate policy with **concrete actions in the short term and long term**
- Implementation of work program step by step with an ongoing **evaluation of results**
- **Monitoring** the whole process by a **team** formed by politicians (elected officials) and administration representatives, assisted by an outside consultant eea in the field of energy

Strong points of the municipal energy policy, City of Lausanne

Towards a considered energy use

- The City of Lausanne has been encouraging energy savings and the use of less polluting resources for **twenty-five years**
- The City Council has improved energy consumption in its municipal buildings by introducing energy diagnosis using telecomputing and by making significant investments in renovation projects
- They encourage private businesses and individuals to adopt the same approach and to increase their use of renewable energy sources such as solar or wind power, hydropower and biomass wood
- They also promote remote heating – notably by making use of the waste from the TRIDEL incinerating plant – as well as the use of gas instead of fuel oil to reduce CO_2 emissions
- The City Council actively contributes to increasing the share of renewable energy used for producing power and urban heat.

Town and regional planning

Actions achieved

Lausanne has been actively promoting sustainable development and ecology for many years

- **Action 21 programme**
- **Promoting quality of life** : “Quartiers 21” participative approach for neighbourhoods
- Principles included in the **master municipal development plan**
- **Construction of 3,000 sustainable housing units**

Actions planned

- **“Lausanne urban area” project**
- The constructions and various developments contained in the “**Metamorphosis**” project

Detached houses labeled Minergie ...

QuickTime™ et un
décompresseur TIFF (LZW)
sont requis pour visionner cette image.

... Standard for all construction

QuickTime™ et un
décompresseur TIFF (LZW)
sont requis pour visionner cette image.

Buildings and municipal installations

- **Display Campaign: energy labels for buildings**

- **The Sustainable Development Fund** : This fund is to finance building improvements based on the Display Campaign as of 2008.

Supply and decontamination

Actions achieved

- **Thermal solar kit** offered : domestic solar power
- **Green power** for households!
- **Photovoltaïque kit** offered
- 2x **Wind turbine**

QuickTime™ et un
décompresseur TIFF (LZW)
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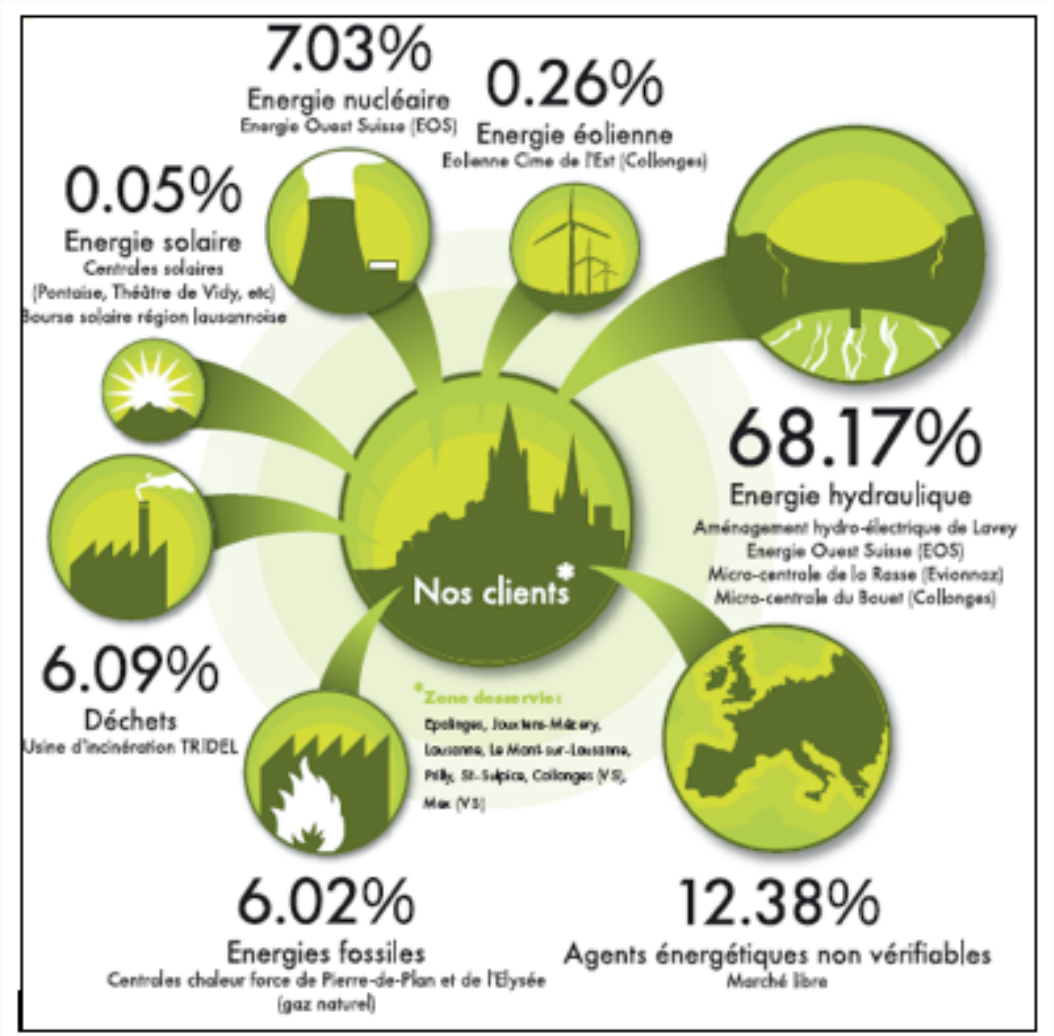
Example : Eolienne à Collonges de 2 MW, soit environ 4.4 GWh/a

Supply and decontamination

En route for renewable electricity!



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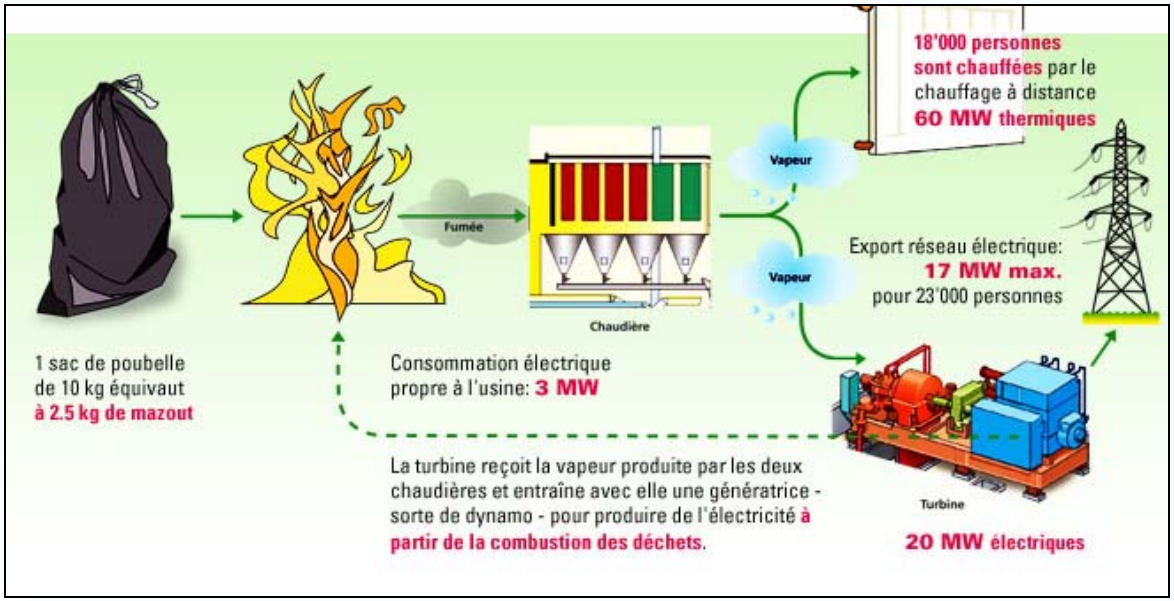
Supply and decontamination

Tridel: a high performance incineration plant

cogeneration (combined production of heat and power) the TRIDEL incineration plant (efficiency levels of over 50%)

Waste delivery by train



Supply and decontamination

Energy production at the wastewater treatment plant

- Dehydrated sludge are incinerated each day in the two wastewater treatment plant incinerators
- Mixed with other special combustible wastes to produce over 20,000 MWh of heat/year that is used for district heating

District heating

- Almost all renewable energy produced on the various sites (Tridel, wastewater treatment plant, La Tuilière woodfired boiler) are used for district heating, which accounts for 70% of the energy mix in 2007

Mobility

- **Lausanne as a role model: the local authority travel plan**
- **Park & Ride facilities**
- **Improved quality of life in the neighbourhoods :** A suitable balance between pedestrians, bike riders, car drivers and alternative transport riders : 30 km/h areas and the parking badge system
- **Promoting non-motorized traffic**
  Walking, Cycling is great!
  Free rent-a-bike service
  A single transport pass « Mobilis »
- **NGV stations**

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décompresseur TIFF (LZW)
sont requis pour visionner cette image.

Mobility

Back to the future in 2008: the m2 underground line

the m2 was inaugurated on 18 September 2008 and commercial service started on 27 October 2008.

Communication, co-operation

- **Exhibitions regularly on at the "Contact énergie" centre**

Optimisons l'habitat

Habiter sainement la qualité de l'air dans l'habitat

L'énergie grise au quotidien

- **The four seasons of energy:** The newsletter dedicated to energy efficiency and aims to raise awareness of what citizens can do in their everyday life to save energy
- **Display Campaign**
- Offering **Thermal solar kit**
- The City of Lausanne encourages the purchase of **electric bikes and cars to natural gas fuel (CNG)**

In Switzerland

187 Energy City Award > 3 M inhabitants

www.citedelenergie.ch

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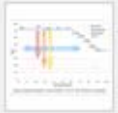
Actualité
Plan du site | Rechercher | Contact
deutsch | italiano

LE LABEL | LES CITÉS DE L'ÉNERGIE | INFORMATION | PROMOTION | INSTRUMENTS | ORGANISATION ▶▶▶ INTRANET

INFO-PLUS

Sur la voie de la société à 2000 watts


Standard bâtiment 2008

Action «Trouvez la différence»

Mieux communiquer dans les Cités de l'énergie

Le management énergétique communal avec ENERCOMPTA

Achats professionnels: appareils de bureaux

SuisseEnergie pour les communes: Actualités

ÇA GAZE POUR LA BIOMASSE

Séminaire de l'ADNV. La gazéification est une technique au cours de laquelle le gaz (de bois) alimente un groupe électrifiant, tel que moteurs, turbines à gaz, voire piles à combustible.
Où en est-on dans ces développements à ce jour ? Faut-il produire de l'électricité à partir de la biomasse alors que son usage thermique paraît évident ?

Yverdon-les-Bains, HEIG-VD, le **22 septembre 2009**.
Programme et inscription

JOURNEE ROMANDE DE L'ÉNERGIE 2009

La Journée romande de l'énergie 2009 se déroulera **le 29 septembre à Onex**. Les labels Cité de l'énergie seront remis à cette occasion. L'après-midi sera consacré à un échange d'expériences sur le thème de la planification énergétique territoriale.
» Programme et inscription (pdf, 1.3 Mo)
» Lettre d'info de septembre 09
» Nouvelle publication: SuisseEnergie pour un avenir énergétique efficace et intelligent

CAMPAGNES & ACTIONS

Standard «Bâtiments 08» pour les constructions publiques : les communes s'engagent à suivre un fil conducteur exigeant pour construire ou rénover

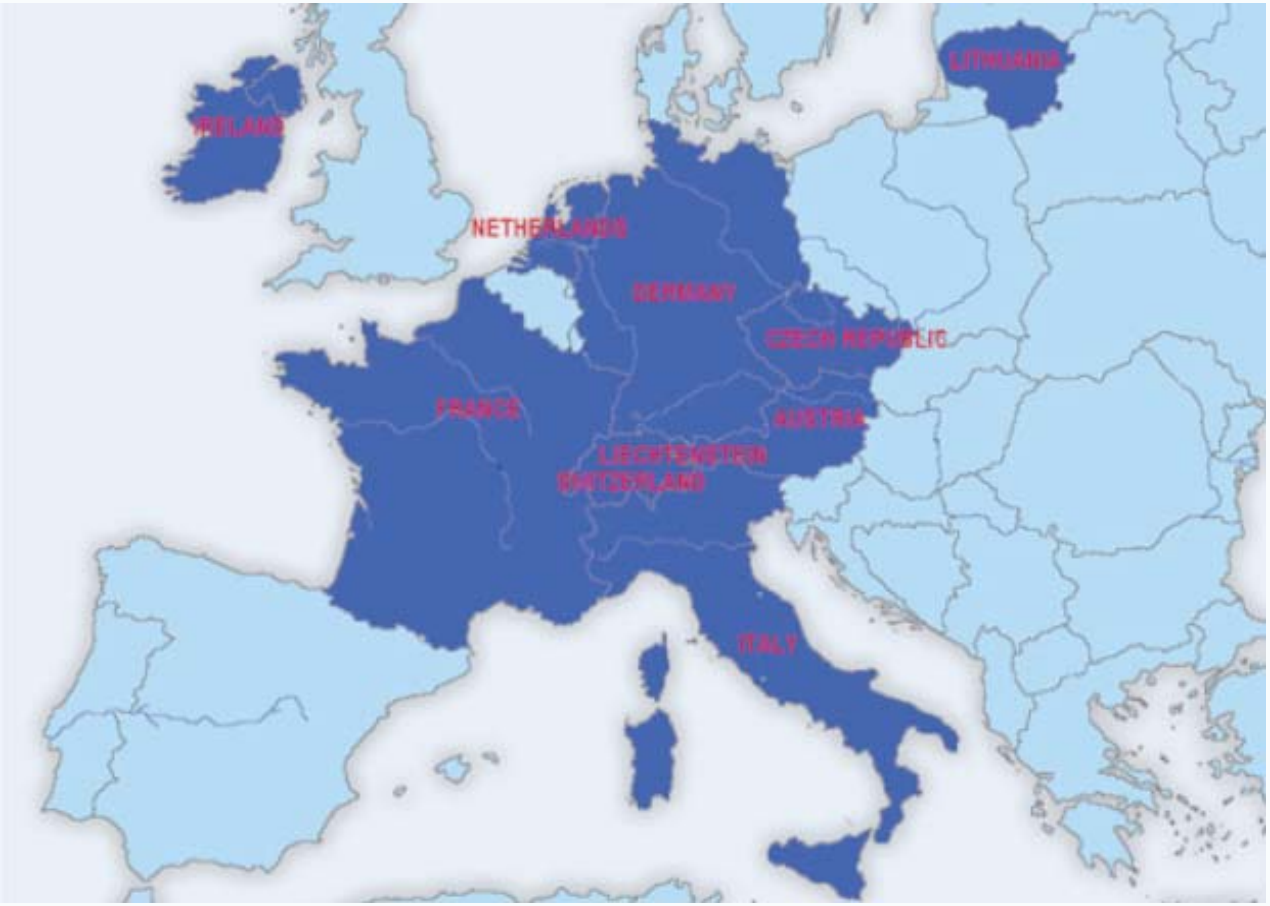
display®

La **campagne Display®** permet d'afficher les performances énergétiques des bâtiments publics.

Gestion de la mobilité dans les entreprises: les Cités de l'énergie motivent les entreprises innovantes
» Campagne 05-08
» Programme 08-12

Gestion de la mobilité dans

Participating Countries in Europe



www.european-energy-award.org