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Swiss Confederation

Commission for Technology and Innovation CTI

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Strengthening the innovative power of Switzerland's energy-economy with the CTI





Overview

- CTI in Switzerland's innovation environment
- Plans related to energy-research funding in Switzerland
- CTI as a partner in energy research
 - Project promotion
- Motivation for today's workshop

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CTI in Switzerland's innovation environment

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CTI's mission

Mandated by the Confederation, the CTI strengthens the innovative power of Switzerland's economy.

- It funds and coaches joint projects by industry and higher education institutions to bring innovative products to the market.
- It supports start-ups and hence the creation of new jobs for highly qualified employees in Switzerland.
- It encourages networking activities, transfer of knowledge and technology between Swiss universities, research institutes and companies.



CTI's three instruments to foster innovation

Project promotion

Joint projects between industry and universities, innovation cheque Start-ups and entrepreneurship

Training modules, coaching, Start-up label, access to investors

Networks

Regional and thematic networks



Innovations as the driving force of Switzerland's economy

- Switzerland is a small country with few natural resources.
- It has one of the world's most liberal economies and is highly exportoriented. It earns almost every other franc abroad.
- Swiss companies compete with companies from around the world under the light of a strong currency.
- To succeed in this competition, they have to bring innovative products to the market.



Switzerland is one of the world's innovation leaders

- Ranked 1st in EU Innovation Union Scoreboard 2011
- Ranked 1st in INSEAD Global Innovation Index 2012
- Ranked 1st in WEF World Competitiveness Index 2012
- Ranked 3rd in IMD World Competitiveness Ranking 2012

«Switzerland's economic success is not defined by certain products but by the way this country enabled the interlinking of different innovations.»

Prof. Harold James, Princeton University, USA («The Swiss Economic Miracle»)



The Energy Challenge in Switzerland

- In May 2011 the Bundesrat decided to step back from using nuclear energy to generate electricity.
- It has been recognized that this requires additional efforts towards more energy efficiency and renewable energies.
- To foster energy related research activities in Switzerland, the Bundesrat envisions to support this sector with additional funding.
- As described in the latest energy dispatch additional 202 Million CHF have been requested by the Bundesrat for "Swiss Competence Centers for Energy research (SCCER)" between 2013 and 2016 as a first step.
- Within this promotion program "Energy" the ETH, Universities and FHs will be supported by coordinated efforts of SNF, CTI and BFE.



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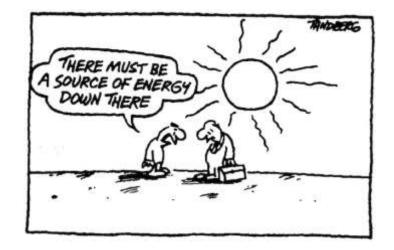
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CTI in Switzerland's energy-innovation environment



- Energy efficiency
- Energy network and its components, energy systems
- Energy storage
- Electrical power generation (deep geothermal energy, CO₂ storage, usage of water power and storage)
- Economy, environment, legal aspects, behavior
- Mobility: efficient concepts, processes and components
- Biomass



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CTI as a partner in energy related research

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Project promotion
General information
Energy related activities



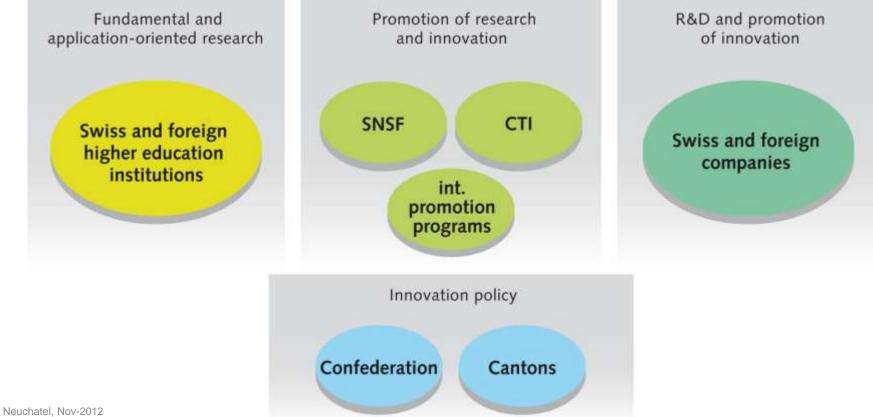
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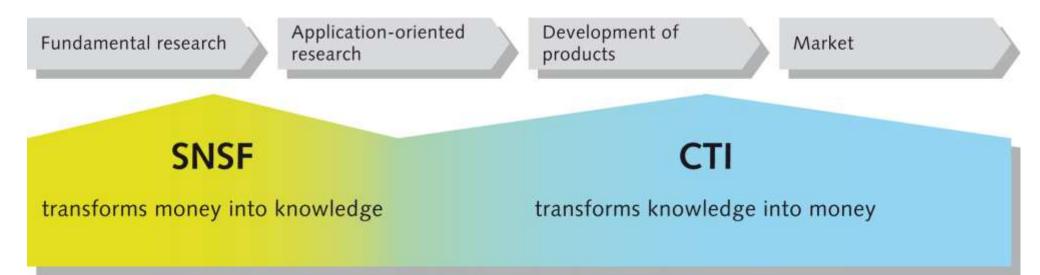
CTI in Switzerland's innovation environment

Innovation hub Switzerland





Partners in the innovation process



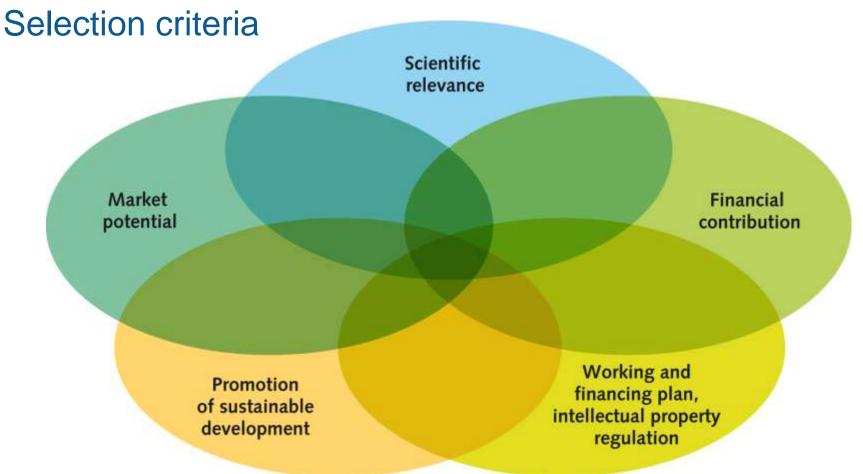


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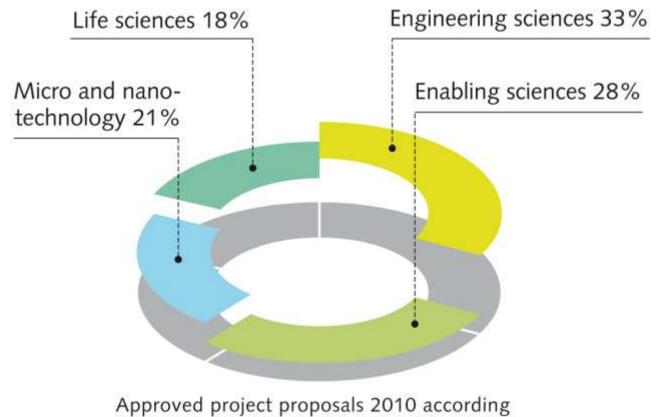
Project promotion





Project promotion

Approved project proposals according to promotion area

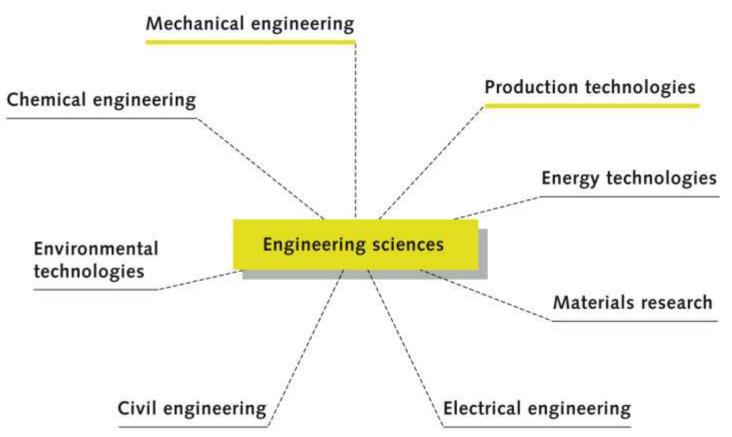


to promotion area (343 projects in total)



Project promotion

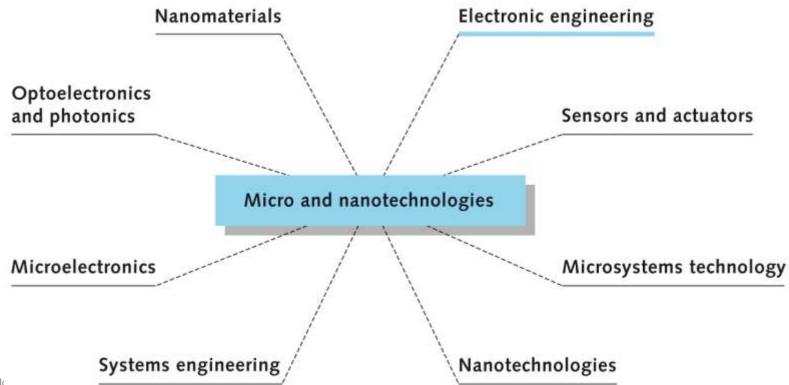
Research areas in engineering sciences





Project promotion

Research areas in micro and nanotechnologies



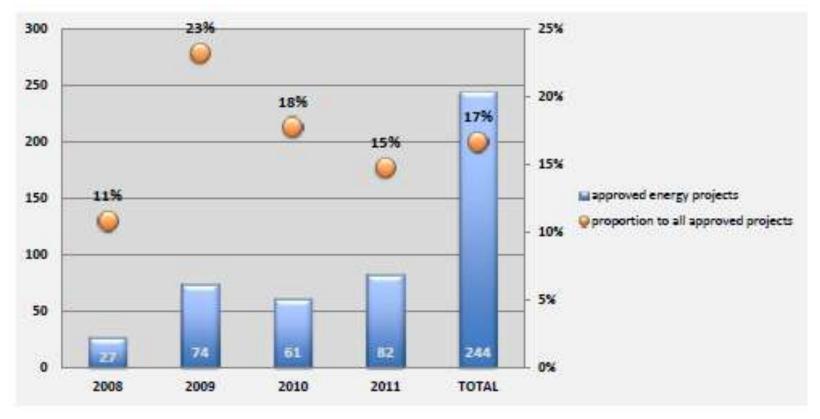


CTI the right partner to support energy related research activities?

- > YES: CTI topics are bottom up and therefore highly flexible
- YES: CTI team includes experienced experts that can cover various project scopes in the field of energy research
- > YES: Energy related research projects have a long track record within the CTI
- YES: Additional funding for energy projects is expected based on the energy dispatch of the Bundesrat.
- BUT: CTI funding underlies specific rules and guidelines (financing, length of a project, project scope & size and partners)
- BUT: CTI has a defined budget and high quality standards



CTI is already an active partner in energy related development projects (2008-2011)





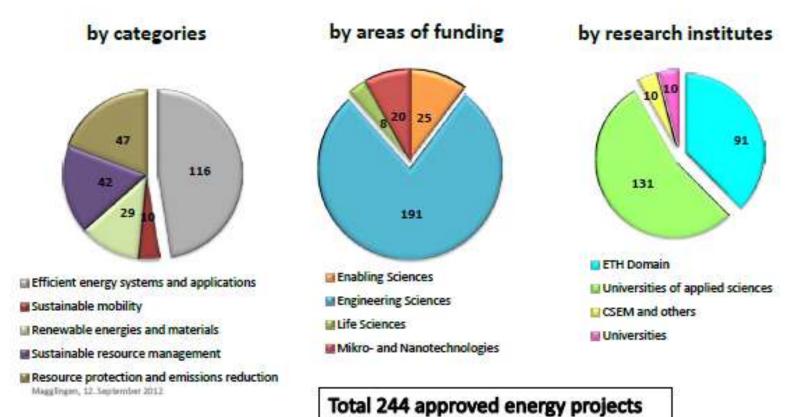
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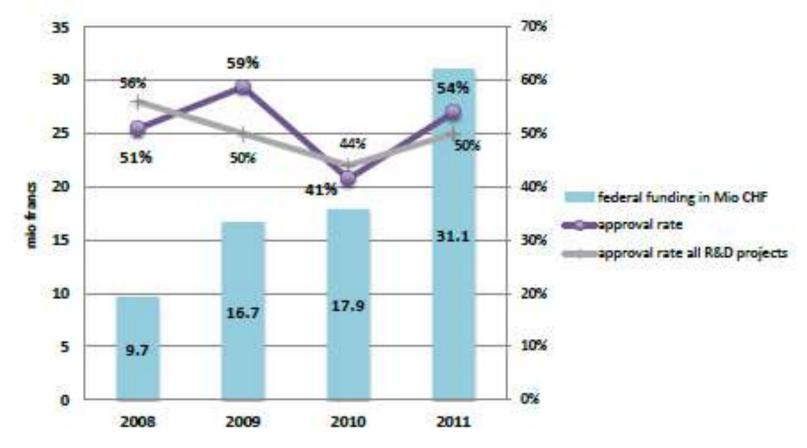
CTI in Switzerland's energy-innovation environment

Approved energy projects





Federal fundings (energy projects)



Neuchatel, Nov

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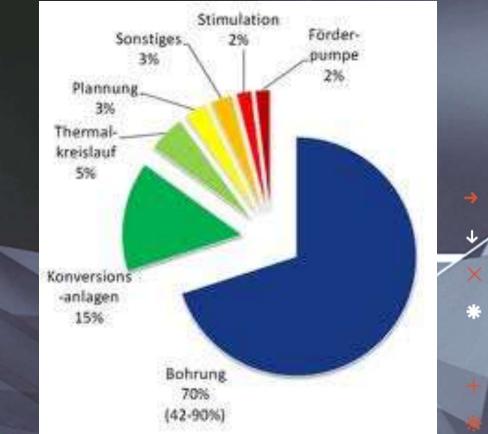
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Science to Market

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Boring cost are the lion share to access geothermal energy...



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So, enjoy the workshop and let's find out more about alternative boring technologies....

