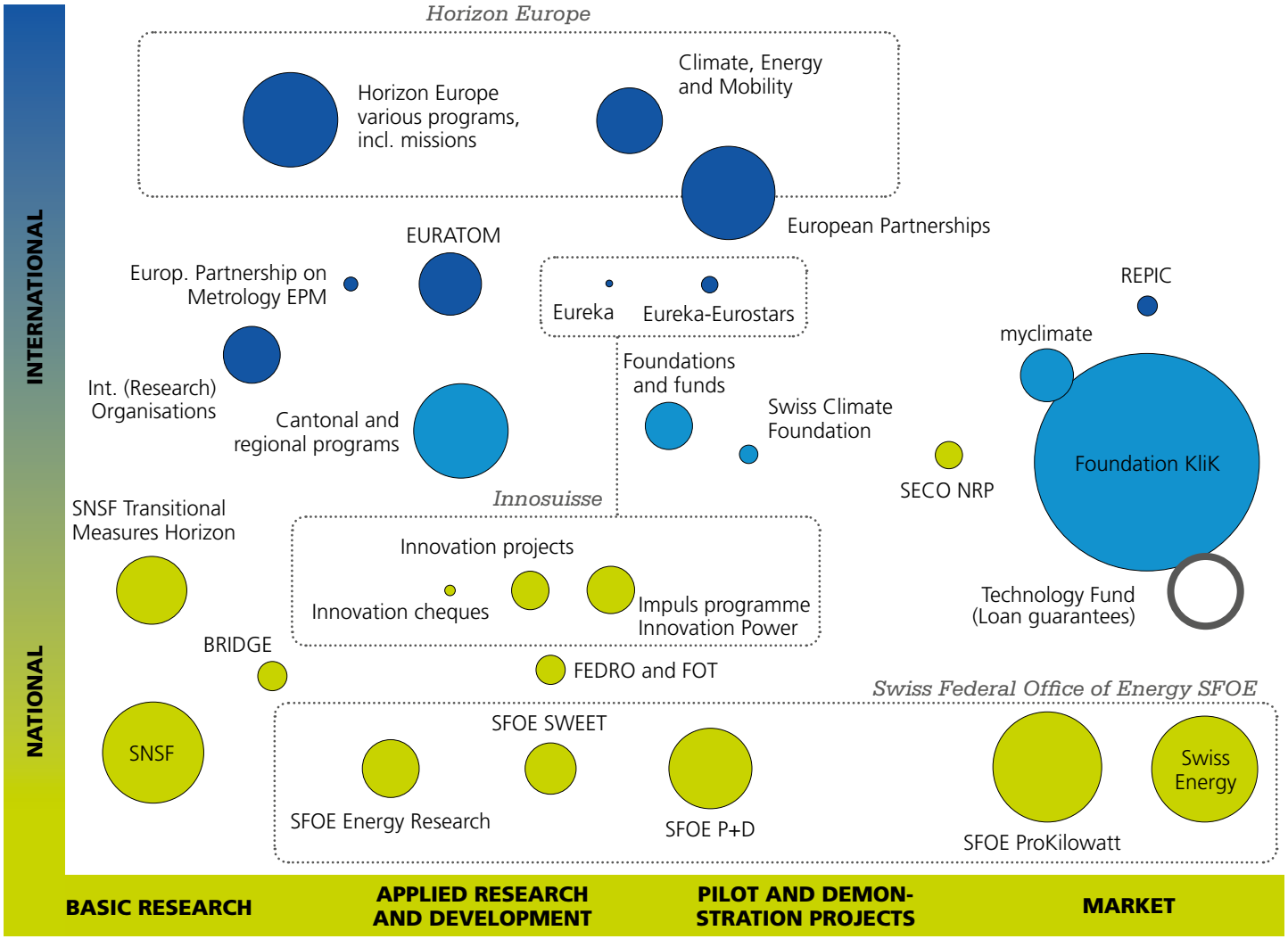
FINANCIAL SUPPORT FOR INNOVATION PROJECTS IN THE ENERGY FIELD



The size of the circles in the graph is about proportional to the annual budgets of the respective programmes in the energy field.

Links in the figure:
By clicking on the circle, you will be taken to the respective part of the overview table

Source: Lüdi Consulting R&D (2021): Opportunities for innovation support in the energy field (executive summary in English, comprehensive report in German only)

Download: www.bfe.admin.ch/innovation

Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Swiss Federal Office of Energy SFOE

TABULAR OVERVIEW OF THE OPPORTUNITIES FOR INNOVATION SUPPORT IN THE ENERGY FIELD (2021)

The following table shows the different programmes for innovation support in the energy field. Distinguished are national and international support programmes. In this executive summary the hyperlinks lead to the relevant websites, in the comprehensive report (in German) to the detailed description of the relevant programme. The support range is an indication only and is often roughly estimated. The number of new projects per year is also an estimate and not an upper or lower limit of projects to be supported. For comparative purpose, the values for the European and international programmes in the following table are converted into Swiss Francs (Rate 1.10 CHF per Euro).

! *The herein listed links lead to the programme websites, in the comprehensive report (in German) to the detailed description of the relevant programme.*

Programme	**Financial means, thereof energy** [million CHF / year]	**Support segment**				**Support range** empirical values per project in CHF	**Maximum contribution** [%]	**Number of new projects per year** [empirical values]	**Form of support** [Definition of direct project costs: Wages etc., w/o overhead and laboratory infrastructure]	**Requirements**
		Basic Research	Applied R+D	P+D	Market					
National support programmes										
SFOE – Energy Research	18, thereof 18					0–several millions	Up to 100%	100	All direct project costs	Topics need to be within the focus of the SFOE energy research concept
SFOE – SWEET-Programme	11, thereof 11					50'000–several millions	ca. between 50–80%	1–4 consortia	All direct project costs	1–2 thematic calls per year
SFOE – Pilot- and Demonstration Programme (P+D)	28, thereof 28					50'000–several millions	40% (exceptionally 60%)	20	All eligible project costs	Development and testing of innovative energy technologies and solutions acc. Art. 49 und 53 EnG.

Programme	Financial means, thereof energy [million CHF / year]	Support segment				Support range empirical values per project in CHF	Maximum contribution [%]	Number of new projects per year [empirical values]	Form of support [Definition of direct project costs: Wages etc., w/o overhead and laboratory infrastructure]	Requirements
		Basic Research	Applied R+D	P+D	Market					
SFOE – ProKilowatt-Projects	Up to 50, thereof 50 (20 for projects, 30 for programmes)					20'000–2 millions	30%	39–100	All direct project costs	Propositions possible all year long (Projects) 1 call/year (Programme) Just for electricity efficiency measures Just projects with pay-back of 4 years and more
SFOE – ProKilowatt-Programmes						150'000–3 millions	30%	10–30	All direct project costs	
SFOE – EnergieSchweiz	44, thereof 44					10'000–500'000	40% (exceptionally up to 60%)	ca. 200	Only «soft» measures are supported	No standardised requirements
Regular Innosuisse Projects	145, thereof ca. 20 (about 80 million will be spent on the impulse programme listed below.).					100'000–1 million (upper limit open, especially also for flagship initiative with 2–4 million)	50%	400–500 (thereof ca. 30 projects in the segment «Energy and environment» und and ca. 30 in other segments	All direct project costs	Min. 1 public research partner and 1 application partner / Flagship-Initiative 3 public research and 2 application partners Private companies contribute 50% in-kind and pay a cash contribution of 0–10 % in favour of the public research partner
Innosuisse – Impulse Programme Innovation Power Switzerland	113, thereof ca. 10 (means mostly from the regular Innosuisse budget)					100'000–1 million (Upper limit open)	Max 70% for measure 1 Max 80% for measure 2	Not yet available	All direct project costs	Measure 1: Min. 1 public research partner and 1 application partner Measure 2: In addition to the 2 partners, a consulting or engineering service provider
Innosuisse – Innovation checks	4.5–6.5, thereof ~0.5					Max 15'000	100%	300–450 (thereof ~10% in energy)	Small pre-studies Cost of wages	Payment exclusively to public partner just one innovation check per company every 2 years
Swiss National Science Foundation SNSF, incl. SNSF Transitional Measures Horizon Europe	2021: 1'108, thereof ~45 2022: 1'137, thereof ~45					Project support: 100'000–600'000, partly up to 2,5 million Careers support: 50'000–360'000 Others: not specified	100%	1'000 projects 1'000 careers 1'000 others (thereof ca. 2 % each in Energy)	wages Costs of infrastructures Publications, seminars, and events	Participation restricted to scientific staff Calls for proposals with strict specifications

Programme	Financial means, thereof energy [million CHF / year]	Support segment				Support range empirical values per project in CHF	Maximum contribution [%]	Number of new projects per year [empirical values]	Form of support [Definition of direct project costs: Wages etc., w/o overhead and laboratory infrastructure]	Requirements
		Basic Research	Applied R+D	P+D	Market					
BRIDGE (Innosuisse and SNF)	26, thereof ca. 3.0					Area Discovery: max. 2,55 million Area Proof of Concept: max. 130'000/year	Up to 100% for both areas	Area Discovery: 10–12 Area Proof of Concept: ca. 30–35	All relevant project costs	Participation limited to research staff of the research organisations defined in the Research and Innovation Promotion Act (FIFG)
SECO – New Regional Policy NRP, incl. NRP-mountain areas	100, thereof 2.7					Project support Federation: 10'000–1 million Loans by the Federation: 300'000–2 million	<50% SECO >50% cantons	ca. 300, thereof ~10 in energy	All relevant project costs	Cofinancing by cantons and SECO is requested No individual company support but for groups of companies
FEDRO and FOT – Federal Roads Office and Federal Office of Transport	FEDRO: 8.5, thereof ca. 0.9 OFT: Ca. 9, thereof ca. 3					FEDRO: 50'000–700'000 OFT: 20'000–700'000	10–100% Energy projects FOT: 40–(60)%	ca. 50, ca. 15 in energy	Energy strategy public transport ESöV: All relevant project costs	ESöV: Contribution to energy saving or energy production, innovation, benefit for practice
Federal Offices with Energy Topics	200, thereof 4 (external studies 37, thereof 0,74)					NA	Variable	NA	NA	NA
Cantonal support offers	NA, thereof min. 20					NA	Variable	NA	NA	Variable
Foundations & Funds (w/o Swiss Climate Foundation, myclimate and KliK)	200, thereof 10 (ca. 5 %)					Variable	Variable	NA	NA	Variable
Swiss Climate Foundation	3, thereof 1					up to 200'000	50%	ca. 20	Reduction of CO_2 by promoting innovations with a climate protection effect	Individual grants Seat of applicant in CH or LI
myclimate	24, thereof 10					NA	NA	ca. 6	Compensation CO_2	Individual grants
KliK	2021 and 2022: 250 each, thereof 210					NA	NA	NA – several hundred	Compensation CO_2	Individual grants Funding from 2022 onwards also abroad in developing countries
Technology Fund (Federal)	2021 and 2022: 30 each, thereof ~20 (loan guarantees)					50'000–3 million (mean value1,7 million)	60%	30, thereof ca. 20 in energy	OpEx and CapEx for the commercialisation of innovation	Applicant and lender with seat in Switzerland

Programme	Financial means, thereof energy [million CHF / year]	Support segment				Support range empirical values per project in CHF	Maximum contribution [%]	Number of new projects per year [empirical values]	Form of support [Definition of direct project costs: Wages etc., w/o overhead and laboratory infrastructure]	Requirements
		Basic Research	Applied R+D	P+D	Market					
European and international support programmes										
Horizon Europe[5,6] (w/o the following separately shown EU programmes and Partnerships)	9'600, thereof ~720 (10 %) in energy. Swiss share: 300, thereof ~33 in energy					600'000–100 million	100% R+D 100% acc. measures 70% P+D	~3'000, thereof 10% in energy)	All direct project costs + overhead of 25%	Min. 3 partners from 3 EU or associated countries. Min. 1 partner from an EU country. Applications just on the basis of calls for proposals
Horizon Europe – Climate, Energy and Mobility	1'734, thereof ca. 870 in energy. Swiss share: ca. 35, thereof 17 in energy					3–15 million	100% R+D 100% Acc. measures 70% P+D	230–300 (incl. SME projects) in old H2020, thereof 11–14% Swiss partners	All direct project costs + overhead of 25%	Min. 3 partners from 3 EU or associated countries. Min. 1 partner from an EU country. Applications just on the basis of calls for proposals
Horizon Europe – European Partnerships	ca. 3'930, thereof ca. 536 in energy. Swiss share: ca. 157, thereof 32 in energy					3–15 million	100% R+D 100% Acc. measures 70% P+D	NA	All direct project costs + overhead of 25%	Min. 3 partners from 3 EU or associated countries. Min. 1 partner from an EU country. Applications just on the basis of calls for proposals
EURATOM	215, thereof 215 / Swiss share: up to 15					1.25–470 million	100% R+D 70% P+D 50% Cofund	10–15, thereof 5–6 with Swiss partners	All direct project costs + overhead of 25%	Min. 3 partners from 3 EU or associated countries. Min. 1 partner from an EU country. Applications just on the basis of calls for proposals
Eureka – Network Projects	Support by the member states / CH: ~1 million CHF/year 10 % in energy					0–1.5 million	0–50%	70–100, thereof 3–6 with CH partners (10% in energy)	All direct project costs Industrial projects	Min. 2 partners from 2 countries / usually 3–5 partners

[1] For Horizon Europe (2021–2027) the Swiss Parliament approved a (negotiation) credit of CHF 4.65 billion in Dec. 2020, i.e. on average about CHF 665 million per year. These means are also used for the partial financing of European partnerships, including Eureka-Eurostars, EPM, as well as in the case of Switzerland's third-country participation. The allocation of funds to the sub-areas is not explicitly defined. The average Swiss means are lower at CHF 400–500 million per year for the current third country participation.

[2] Horizon Europe is made up of various sub-areas, incl. the following energy-relevant topics: Climate, Energy and Mobility; European Innovation Council EIC; and the embedded European Partnerships. Other themes with less energy relevance are only listed here in summary form and include: ERC European Research Council, JRC Joint Research Centre of the EU, EIT European Institute of Innovation and Technology, etc.

Programme	Financial means, thereof energy [million CHF / year]	Support segment				Support range empirical values per project in CHF	Maximum contribution [%]	Number of new projects per year [empirical values]	Form of support [Definition of direct project costs: Wages etc., w/o overhead and laboratory infrastructure]	Requirements
		Basic Research	Applied R+D	P+D	Market					
EUREKA – Clusters	Support by the member states – Network Projects					500'000–50 million	0–50%	20–50, thereof 0–1 with CH partners (10 % in energy)	All direct project costs Industrial projects	Min. 2 partners from 2 countries / usually 10–30 partners
Eureka – Eurostars	Support by the member states and EU / CH: ~12 million, thereof <5 % in energy					500'000–1.65 million	50% (SMEs and science) 20% Others	350, thereof ~40–50 with CH partners (<5% in energy)	All direct project costs	Min. 2 partners from 2 countries SMEs / open for other partners Innosuisse rates to be used
EPM – European Partnership on Metrology	EU support: 26 (2021) – 50 (2022 onwards), thereof ca. 20 % in energy Swiss share in the programme: 4.8%					600'000–3 million	50%	30–40, thereof 8–12 with CH partners (20% in energy)	All direct project costs + fix share for overhead	As a rule, at least 3 partners from 3 EU or associated countries. Switzerland as additional 4th partner Euramet members and project partners contribute the remaining 50 % Applications just on the basis of Euramet calls for proposals
REPIC – Renewable Energy, Energy and Resource Efficiency Promotion in Intern. Cooperation	2.0, thereof 1.25					100'000–150'000	50%	10–15	All direct project costs	Min. 1 Swiss partner and 1 partner from a developing or transition country
Other International (research) Organisations	Total ca. 90[3] Ca. 110 million as return flow for R&D projects, services and procurements					NA	Variable	NA	NA	NA

[3] The annual investments by Switzerland are taken into account. Reflux occurs through supplier contracts from Swiss industry for construction projects and components, and to a lesser extent through the use of facilities by Swiss researchers for R&D project. The high return flow is largely due to CERN in Geneva. The energy-relevant share of the return flow cannot be estimated.