

GESUNDHEITS-, SOZIAL- UND UMWELTDIREKTION

KANTON URI

Canton Uri

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Canton Uri

Total area: 1'077 km²
Population: 35'000

A donut chart showing the land use distribution in Canton Uri:

Land Use Category	Percentage
agriculture	24%
forest	20%
settlement	2%
unproductive area	54%

- agriculture
- forest
- settlement
- unproductive area

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Energy Platform Workshop 2

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Protection and Utilisation Concept Renewable Energy Sources (SNEE) of Canton Uri

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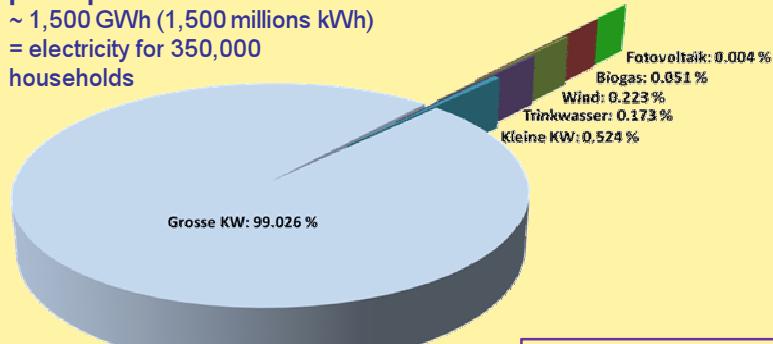


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Water power is our strength

Water power is our strength
power production Uri
~ 1,500 GWh (1,500 millions kWh)
= electricity for 350,000
households



More than a third of the total rail electricity of the Swiss Federal Railways is produced in canton Uri.

The future lies within the renewable energy sources

Key words: Electricity scarcity
CO₂ problems, climate change
Phasing out of nuclear energy
Dependency on energy from abroad (fossil fuels)

→ The Swiss Confederation relies on indigenous, renewable energy sources

Federal energy legislation

- Increase of electricity from renewable sources
- Increase of electricity from hydro stations

Energy strategy 2050

- Water power as main pillar in the Swiss energy supply
- Increased production of water power

→ The Swiss Confederation launches supportive measures

Renewable energy sources Uri

- Canton Uri owns a supply of unused, indigenous resources of water, sun and wind.
- Overall energy strategy Uri:
 - Production of water energy increased by 10% (= 150 GWh) by 2020.
 - The amount of other renewable energy sources (geothermal energy, biomass, sun, wind) is to be increased from 5% to 25%.

New power plant projects

- Before SNEE: 25 applications for new energy power facilities (almost exclusively new water power plants < 10 MW)
- A large part of this projects is within environmentally protected areas or affects waters and areas worthy of protection.

Conflict between protection and utilisation

Federal Law

- The Confederation and the cantons are committed to a sufficient, economic and environmentally friendly supply of energy and to a careful use of energy.
- The Confederation and the cantons strive for a balanced relation between **nature** and **human impact** on the environment.
- Energy supply and protection of nature and landscape are of equally high public interest.
- Mandatory weighing up protection and utilisation.
- The Government launches **concepts for protection and using renewable energy sources** (SNEE).

What do we want to achieve with the SNEE?

Targets

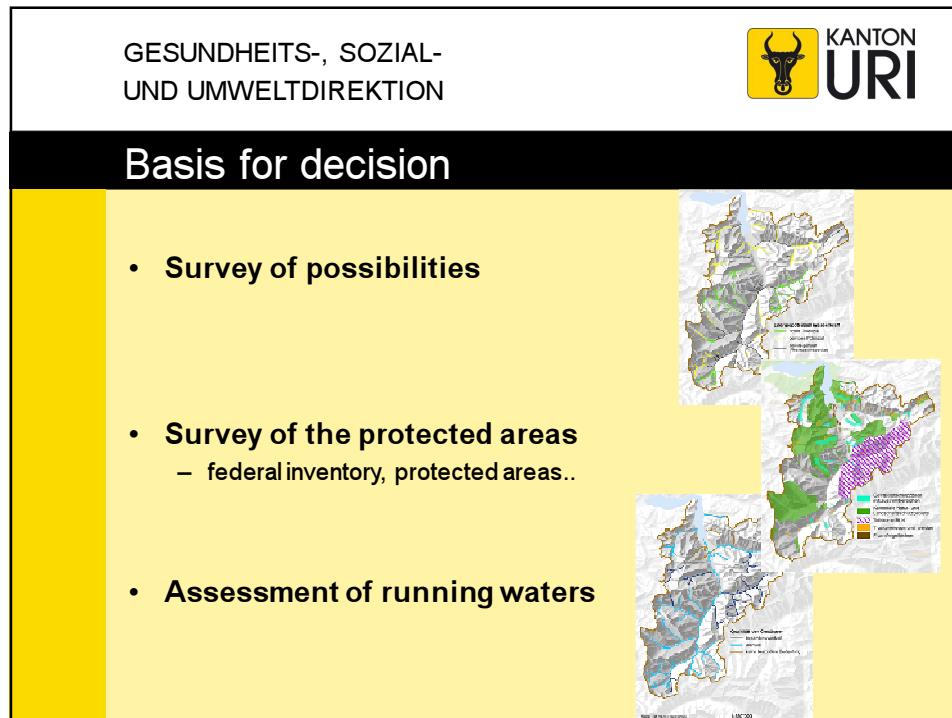
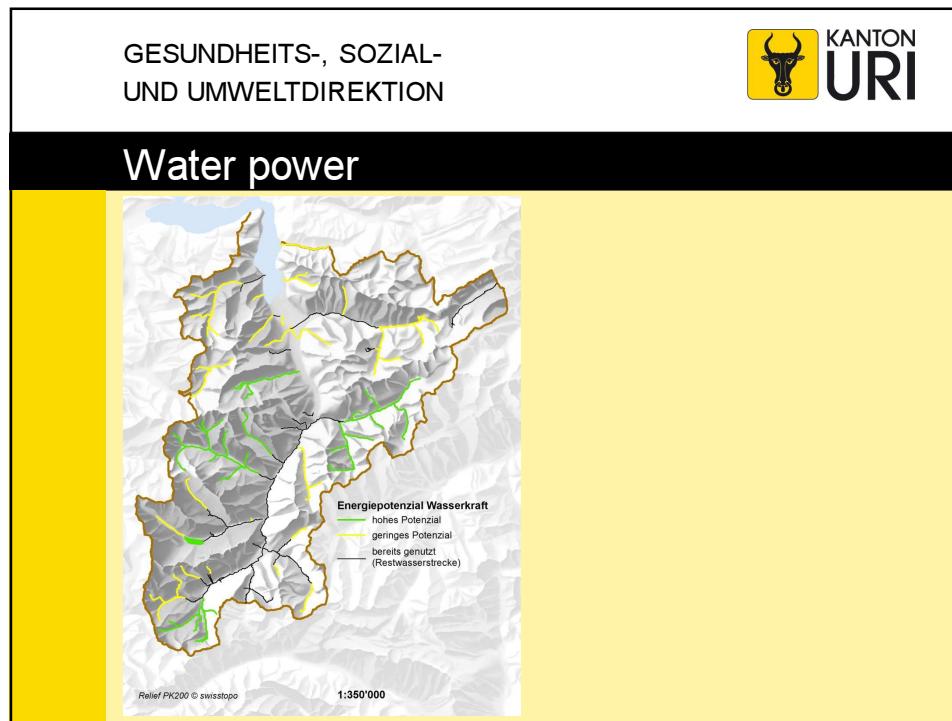
- Implementing Canton Uri's overall energy strategy
 - Increased production of water energy by 10% (150 GWh)
 - Increased percentage of renewable energy
- Balanced relation between protection and utilisation (**weighing up interests!**)
- Focussing on all applications and possibilities, not on individual cases
- **SNEE indicates where future facilities may be installed and where landscape and running water are to remain intact.**
- **SNEE play a central role in realizing the most important power station projects.**

Maxims of SNEE

- Interests of energy, national economy and environment are equally considered.
- As a rule, few, high potential waters are to be used rather than others (renunciation).
- Landscapes and waters especially worthy of protection are to be preserved for the next generations.
- Large, coherent landscape chambers are to be given priority over single objects (integral approach).
- Existing power stations are not affected by SNEE.

actors and affected persons

- **Canary** (gives or grants concessions)
- **Land and water owners**
 - Canton and two corporations
 - compensation for relinquishment of usership
- **NGOs**
 - associations' right to appeal
- **Investors, applicants, constructors**
 - SNEE settles the conditions for realizing projects in the Canton Uri
 - Secured planning
 - Faster approval proceedings

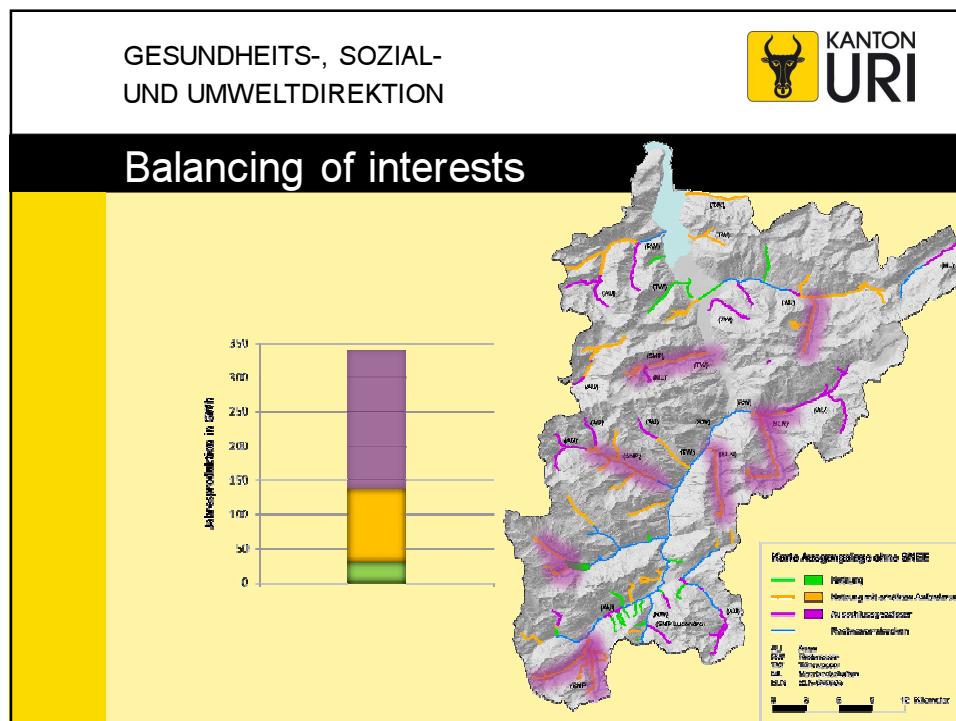
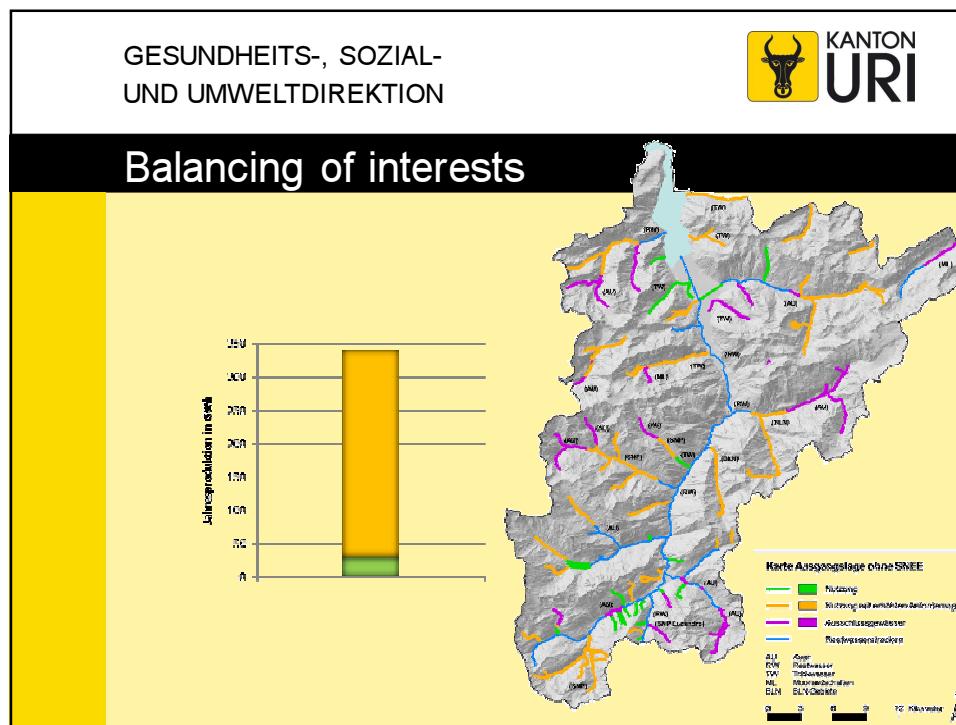


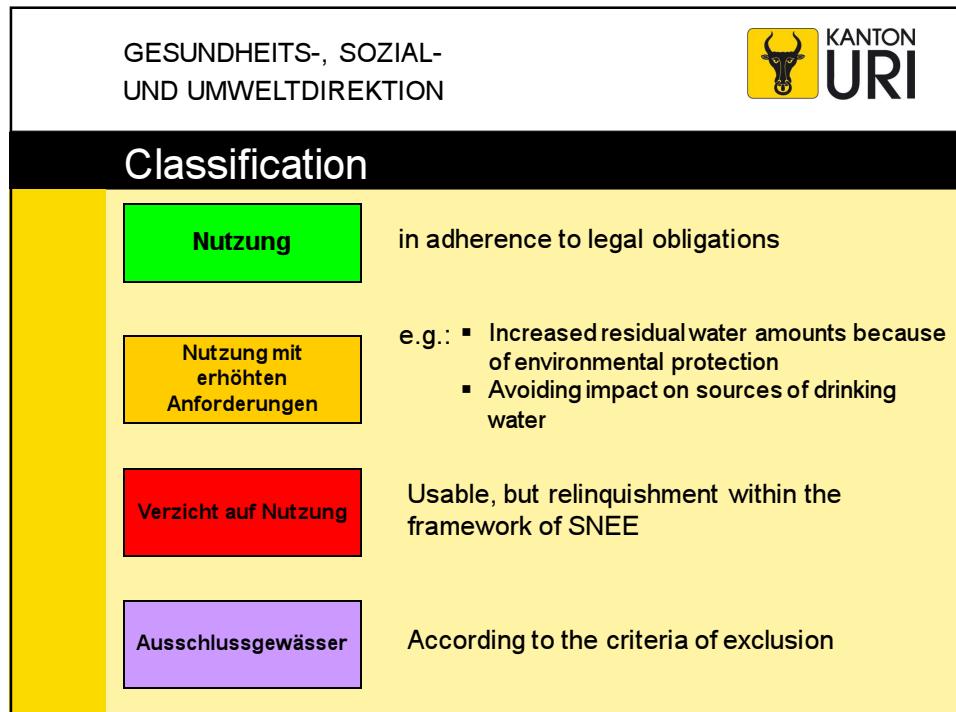
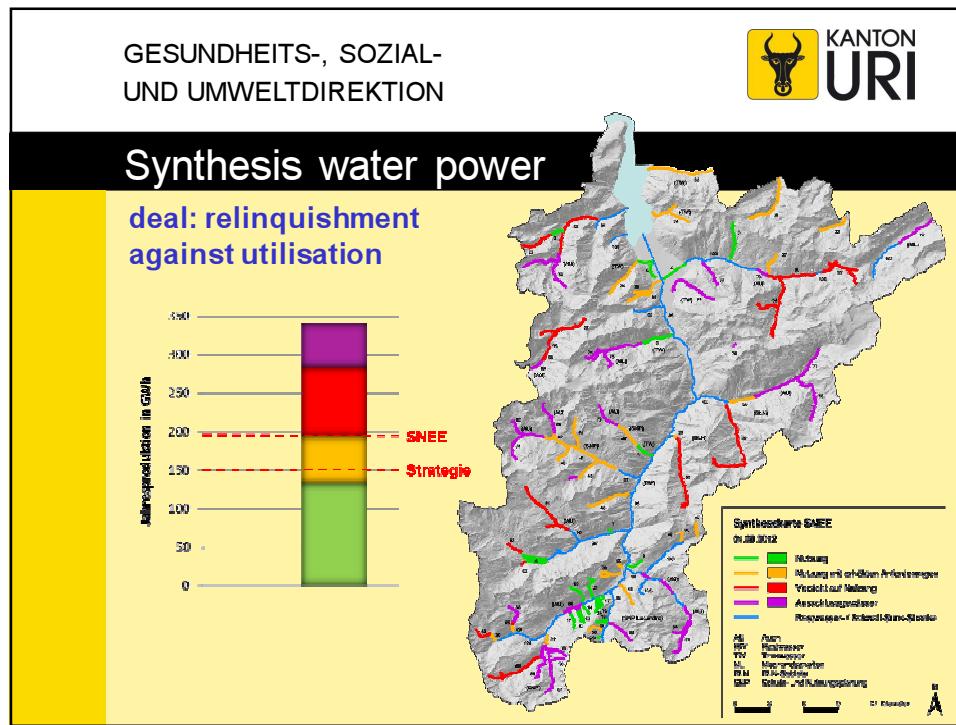
Criteria list

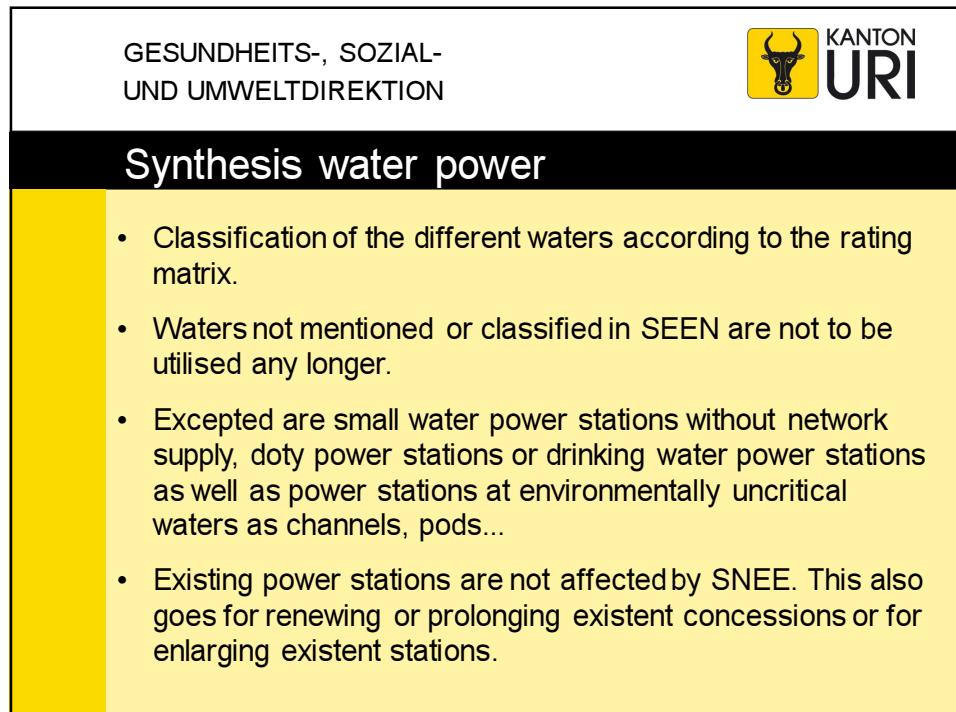
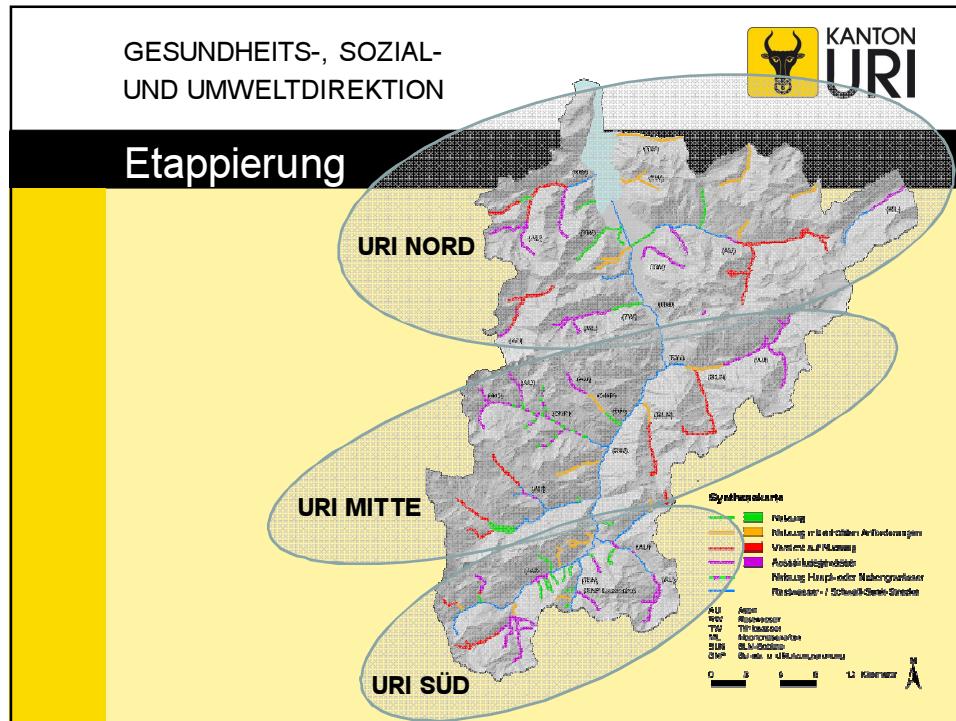
- **potential criteria**
slope, amount of flow, solar irradiation, wind..
- **elimination criteria**
national meadow and moor landscapes, residual water paths..
- **weighing up criteria** (*weighing up and no science!*)
 - protection criteria
BNL-areas, cantonal wetland areas, drinking water – and tourism areas
 - utilisation criteria
profitableness, working places, tourism...

Rating matrix

	hoch	Kritisch	Sehr kritisch	Kaum realisierbar
energy potential	Unkritisch	Kritisch	Sehr kritisch	Kaum realisierbar
gering	Wenig kritisch	Sehr kritisch	Kaum realisierbar	Nicht realisierbar
	gering	mittel	hoch	sehr hoch
Ecology and landscape				







Wind and solar

Wind

- No more wind generators in Uri (apart from the existing 4 generators in Windpark Gütsch)
- Excepted are Federal plans or concepts or by intercantonal committees.
- Single stations still possible

Solar

- Solar collectors and photo voltaic installations only in urban areas
- No large open space compounds
- The Canton intends to maintain its active support of solar collectors and photo voltaic installations.

Financial compensation

- The SNEE classification resulted according to energy potentials, profitability and ecological criteria, regardless of ownership.
 - In certain areas or zones, use of energy is renounced to.
 - Varying ownership structures
 - Relinquishment affects the owners unequally
- **The owners (Canton and corporation) have agreed to settlement.**

Compensation: principle and approach

Principle:

- Energy was taken as a calculation basis.
- All owners renounce to the same amount of energy in percentage.

Approach:

- Settling the balancing amount of energy.
- Balancing the amount of energy through shares in a power station (energy can be drawn)
- Entitlement to water interests according to amount of shares

Legal assurance

- **Conventions**
 - Canton and corporations
- **Coordination of proceedings**
 - Concession primary used waters
 - Regulated protection of the activated areas “northern Uri”, “central Uri” or “south Uri”.
 - Simultaneous support
 - Concession secondary used waters
- **Declaration of intent**
 - Canton Uri and environmental associations