

## THE SUN OR URANIUM EXHIBITION

Next year  
the Swedish people  
is facing a decision  
of fundamental importance.

In a referendum  
we will be expected to decide  
what type of technology  
we want to base our future  
energy supply system on.

Do we want nuclear energy  
with its large scale systems  
and technological centralization?

Or do we want solar energy  
with its small scale systems  
and technological decentralization?

How will our welfare  
and our standard of living  
be affected by the choice?

And do we really have a choice anymore?

Or are the forces  
that are presently tying us  
to a nuclear future  
too strong  
to be influenced democratically?

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The nature of the problem  
makes it hard for anyone  
to form a qualified opinion  
in these matters

The idea of energy  
is one of the most subtle concepts  
of physics

And the so called "energy debate"  
that is going on in too many places  
of our massmedia  
doesn't make it easier for the layman  
to comprehend the structure  
of the energyproblem

There is constant talk  
about an "energy crisis"  
as if we could be short of something  
that can never run out or be destroyed

But there is very little talk  
about the energy-quality crisis  
that has been brought about  
by looking at the energy supply process  
exclusively from the producers viewpoint

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The need for qualified information  
in accessible terms  
is enormous

If the result of the referendum  
is to reflect the real will of the Swedish people  
it is necessary that we help each other  
to educate ourselves  
in order to raise the quality of our knowledge  
of the concept of energy

Only then  
can we regard the energyproblem  
from the consumers viewpoint  
and make the enormous savings  
that come from choosing a technology  
that adapts the energy quality  
between the producer and the consumer

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A step in this direction  
is the research report SUN or URANIUM  
from the Institute for Futurestudies

The report outlines  
two different energy futures for Sweden  
called SOLAR SWEDEN and NUCLEAR SWEDEN  
based on solar energy and nuclear energy

It also tries to analyse  
what kind of forces  
that influence our present situation  
and how they affect our possibilities  
of a choice for the future

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When the SUN or URANIUM report was discussed  
at the Swedish State School of Art and Design  
last spring  
we felt a strong need  
to try to visualize  
and bring to life  
its important content

Thus  
the idea was born  
to make an exhibition  
with this purpose

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The project  
has now taken form  
and developed itself  
into a cooperation  
between pupils and teachers  
at the Swedish State School of Art and Design  
the Royal Institute of Technology  
the Academy of Arts  
the Academy of Journalism  
the Academy of Dance  
the Academy of Music  
and the Institute for Futurestudies

The SUN or URANIUM exhibition will open  
at the Cultural Centre of Stockholm  
on the 1:st of February 1980  
and continue there until the 15:th of March 1980

The exhibition will contain  
a separate SOLAR ENERGY WORKSHOP  
which will open on the 15:th of February 1980  
and continue until the 7:th April 1980

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It is our aim with the exhibition  
to present the basic facts  
concerning the energy supply principles  
that will be involved  
in the peoples referendum on energy

But we will also try to visualize  
the type of social structure  
that the different alternatives will bring about

What will a SOLAR SWEDEN/NUCLEAR SWEDEN look like ?  
What will it feel like to live there?

During the course of the exhibition  
we will arrange discussions  
debates and seminars  
with energy experts of different kinds  
in order to explain and illuminate  
as thoroughly as possible  
the concepts and ideas  
that are presented in the exhibition

Some of the subjects that will be discussed  
are the following:

1. THE OIL SUPPLY SITUATION IN A LONGER PERSPECTIVE
2. THE NEED FOR ENERGY AT LARGE  
(How far can we get by saving?)
3. CAN NUCLEAR POWER REPLACE OIL ?
4. IS IT POSSIBLE TO SEPARATE  
NUCLEAR POWER AND NUCLEAR WEAPONS ?
5. ENERGY AND CIVIL DEFENSE  
(The vulnerability of different energysystems)
6. ENERGY AND JOBS  
(What energysystems give jobs to people ? )  
(What energysystems take jobs from people ? )
7. ENERGY AND THE THIRD WORLD  
(How do the energysystems affect the distribution of global resources ?)
8. ENERGY AND DEMOCRACY  
(How do the energysystems affect legislation and decision influence in society?)
9. ENERGY AND ECONOMY  
(What is profitable - and for whom ?)  
(How do the rates and taxes on energy affect the profitability of  
different energysystems ?)

10. SOLAR ENERGY IN DIFFERENT FORMS:

1. Solar Collectors (Heating and Cooling)
2. Photovoltaics (Solarcells)
3. Solar thermal/electric conversion
4. Biomass conversion
5. Ocean and Wave energy conversion
6. Wind energy conversion
7. Alternative car fuels ( ethanol, methanol, electric)
8. Woodstoves and building codes
9. Coal, Peat-fuel and Co-generation
10. Ecological buildings

The seminars will be supplemented by musical and theatrical activities in order to "dramatize the discussions"

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The SUN or URANIUM exhibition will be aimed at

- individuals and organizations
- children and grownups
- schools and companies
- politicians and lobby groups
- cities and rural areas
- libraries and study circles
- day care homes and labour market authorities
- civil defense and home guard organizations

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As a part of the work we will produce an exhibition catalogue

This will be a documentation of the ideas and concepts of the exhibition that can serve as a basic material for energy studies both for beginners and for more advanced "energy students"

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After the closing at the Cultural Centre of Stockholm it is our intention that a large part of the exhibition will be "put on wheels" to go touring around the country (and later on internationally) as a traveling

INFORMATION - ART - SHOW

This will be directed primarily at schools and youth-club-centres in order to reach the young people and help to lay the foundation for a positive development in the future of the knowledge and know-how of energy

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Every technology  
can be regarded  
from two different perspectives:

The creative = How can I make it ?  
The consumptive = How can I buy it ?

The interaction  
between these two aspects  
of a technology  
is fundamental  
for the way it shapes society

The exhibition  
will try to illuminate  
the two alternative energy futures  
SOLAR SWEDEN and NUCLEAR SWEDEN  
from both of these perspectives

This leads to  
four different kinds  
of futuristic visions:

	SOLAR	NUCLEAR
MAKE	INFORMATION (SOLARWORKSHOP)	INFORMATION
BUY	INDUSTRY	INDUSTRY

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Furthermore  
there are two important questions  
relating to the social consequences  
of any type of technology:

1. Who should own it ?
2. How large should it be ?

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The question of ownership  
has been intensely debated in society  
throughout the course of modern civilization

But the question of scale  
has so far hardly been discussed at all  
The benefits  
of a large scale technology  
has hitherto been regarded self-evident

But during recent years  
a small scale energy technology  
has been developed  
that makes a "modern standard of living"  
fully possible

Therefore  
the question of scale  
has been brought into the focus  
of the social debate

For the first time  
we have a real possibility to choose  
whether to continue to centralize  
or to start to decentralize  
our energy supply system

The exhibition  
will try to illuminate  
the fundamental differences  
between the large scale  
and the small scale  
technological society

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An important conclusion  
of the SUN or URANIUM report  
is that in order to create  
a real freedom of choice  
of our future energy supply system  
we must as soon as possible  
make a massive investment  
in different forms of solar energy technologies

If we fail to do this now  
we will be unavoidably forced into NUCLEAR SWEDEN  
in the very near future

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A large hindrance to such an investment  
is the lack of information  
regarding the knowledge that exists  
in the solar energy field

A small scale solar energy future  
must be based on the fact  
that many people have the practical knowledge  
of how these energy systems work

That we are many people  
that can construct, operate and repair them

The SUN or URANIUM exhibition  
will therefore contain  
an alternative energy workshop  
called THE SOLAR WORKSHOP

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The purpose of the SOLAR WORKSHOP  
will be to transmit practical knowledge  
of how to build your own solar collectors  
and related types of small scale energy systems

We will therefore  
during the course of the exhibition  
build a couple of different "solar energy machines"  
using simple and cheap materials  
often of a recycled character

We will also try to show  
what kind of future development possibilities  
that exist in this field

The SOLAR WORKSHOP will also contain  
a CHILDREN'S SECTION  
where we will "play with the materials"  
in order to demonstrate  
the basic principles of solar energy  
in a way that is suitable for children

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The SOLAR WORKSHOP  
will form the basis  
of the traveling INFORMATION - ART - SHOW  
mentioned earlier

It is of fundamental importance  
to get this information out  
into the rural areas of the world  
where the "do it yourself technology"  
is an important factor  
in keeping the countryside alive  
preventing depopulation  
and social collapse

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If you have  
or if you know of  
any information material  
(pictures, articles, slides, films,  
3D-models, material samples... )  
that would be of interest  
to our energy-information-exhibition  
please let us know about it  
so that we can arrange  
the information transfer  
as soon as possible

Time flies  
and we have  
an enormous information gap  
to breach in just 3 months

Whatever help you can give us  
in our efforts  
we will appreciate  
with all our hearts

Stockholm, Oktober 1979

The Sun or Uranium Working Group