

Annual Report 2019

SolarSuperState Association



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Message from the president

Many states do not seem to know how to achieve conformity with the Paris Agreement requirements. The solution, however, is simple.

Renewable energies come first.

Renewable energies come first in electricity production.

Renewable energies come first in heat production.

Renewable energies come first in transport.

Renewable energies come first in spatial planning.

Renewable energies come first in industrial processes.

Renewable energies come first in agriculture.

Renewable energies come first in forestry.

Here's what that means for spatial planning. A balancing of interests between renewable energies and landscape protection as well as monument protection is not necessary. Neither landscape protection nor monument protection should prevent or diminish renewable energy production.

What comes second?

The answer is on page 38 of the book "Wind Power for the World. The Rise of Modern Wind Energy" published by Preben Maegaard together with others. The builder of the first Danish electric windmill in the nineteenth century, Poul la Cour, coupled renewable electricity production with energy storage. He used water electrolysis to produce hydrogen. The hydrogen was burned to light his school starting in 1895. If a lack of energy storage threatens to slow the maximum possible rate of renewable energy expansion, then more energy storage needs to come quickly.

What do we do with nuclear energy and fossil fuels?

We shut them down or ban them so quickly that the expansion of renewable energies can continue at maximum speed.

Only in this way can a state act in conformity with the Paris Agreement. Watch our SolarSuperState rankings to see which state is already doing that.

Wolfgang Hein

Our role and strategy

The SolarSuperState Association is the global voice of people and organizations that can benefit from rapidly increasing markets for decentralized renewable energy technologies (wind and solar energy, energy storage, ...) by:

- SolarSuperState Competition of all states of the world
- SolarSuperState Ranking of all states of the world
- SolarSuperState Prize for states (and regions and municipalities)
- Request of 100 % renewable energy economies for all states within 10 years
- Request of 100 % renewable electricity in all states within 5 years

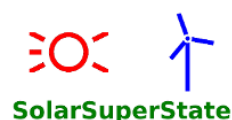
The outcome of the SolarSuperState Competition is described in the annual SolarSuperState Ranking. The SolarSuperState Ranking increases the transparency about the progress in renewable energies at the state level.

The SolarSuperState Association appeals to all states for an acceleration of the deployment of

- wind energy
- solar energy
- plus energy buildings (energy-plus-house, in German also: Aktivhaus)
- vehicles using fuel produced from national renewable energy
- rational use of energy, especially also of biomass
- energy storage technologies

The association requests from every state early and total phasing out of fossil energy electricity production (nuclear, fossil coal, crude oil, natural gas), fossil energy heat production, and fossil fuel production for transportation.

We view every state as a laboratory for the world on how to handle the transformation from a fossil nuclear energy to a 100 % renewable energy economy. Overall, we believe that the leading states in the SolarSuperState ranking are in privileged positions to demonstrate the feasibility of a fast transition to 100 % renewable energy in all sectors of the domestic economy.



SolarSuperState Ranking general

The SolarSuperState Association publishes the SolarSuperState Ranking. In a 100 % renewable energy economy, the electricity sector gets relatively more important than in today's fossil and nuclear energy economies. Therefore, the category SOLAR considers only the electricity side of solar energy. The global usability and deployment speed is better for photovoltaics than for solar thermal electricity technologies (concentrated solar power). Therefore, the metric for the category solar is only based on photovoltaics. The rankings compare all states of the world by its rank and cumulative installed power per population in the 2 categories

- ✓ wind energy („WIND“) and
- ✓ solar energy („SOLAR“)

The key date of the SolarSuperState Ranking 2019 is the 31 December 2018. The last edit of this SolarSuperState Ranking 2019 is of 6 January 2021. States with a cumulative installed power per capita (C) of less than 1 Watt per capita (W/c) are ranked by increasing population. States with big population are generally considered to have more resources than those with smaller population. There is still a chance for almost all states of the world (rich and poor) to conquer a top position within the ranking because the leading states are all still far away from a 100 % renewable energy economy.

The next page shows the ranks 1 to 29 (first 29 states) and 179 to 197 (last 19 states).

SolarSuperState Ranking 2019



Rank	SolarSuperState Ranking WIND 2019		SolarSuperState Ranking SOLAR 2019	
	State	C, W/c	State	C, W/c
1	Denmark Kingdom	983	Liechtenstein	663
2	Ireland	727	Germany	544
3	Sweden	724	Vatican City State	490
4	Germany	714	Japan	439
5	Portugal	523	Belgium	349
6	Spain	506	Australia	343
7	Uruguay	432	Italy	333
8	Finland	370	San Marino	305
9	Austria	354	Malta	265
10	Canada	344	Netherlands	263
11	Norway	316	Switzerland	254
12	United Kingdom	316	Greece	247
13	Belgium	294	Luxembourg	217
14	United States	292	Czech Republic	205
15	Greece	268	Tuvalu	200
16	Netherlands	259	United Kingdom	198
17	Estonia	234	Denmark Kingdom	170
18	France	229	Austria	162
19	Luxembourg	199	United States	156
20	Lithuania	190	France	150
21	Montenegro	190	Bulgaria	149
22	Cyprus	182	Slovenia	145
23	Australia	181	South Korea	138
24	Italy	165	Cyprus	137
25	Romania	155	Israel	132
26	Poland	154	China	125
27	Croatia	143	Taiwan	116
28	New Zealand	142	Slovakia	115
29	China	132	Spain	115
179	Angola	< 1	Burundi	< 1
180	Ghana	< 1	Benin	< 1
181	Mozambique	< 1	South Sudan	< 1
182	Yemen	< 1	Somalia	< 1
183	Malaysia	< 1	Zimbabwe	< 1
184	Uzbekistan	< 1	Chad	< 1
185	Saudi Arabia	< 1	Zambia	< 1
186	Afghanistan	< 1	Syria	< 1
187	Iraq	< 1	Cameroon	< 1
188	Uganda	< 1	Cote d'Ivoire	< 1
189	Sudan	< 1	Venezuela	< 1
190	Algeria	< 1	Angola	< 1
191	Colombia	< 1	Mozambique	< 1
192	Myanmar (Burma)	< 1	Uzbekistan	< 1
193	Tanzania	< 1	Sudan	< 1
194	Congo (Kinshasa)	< 1	Ethiopia	< 1
195	Bangladesh	< 1	Congo (Kinshasa)	< 1
196	Nigeria	< 1	Nigeria	< 1
197	Indonesia	< 1	Indonesia	< 1

New policy of SolarSuperState Association

The general assembly of the SolarSuperState Association decided on 30.5.2019 new demands to all states:

National policies (recommended)

- i) National organization of a maximum of short-term climate protection because of climate emergency
- ii) Peaceful coexistence of states and prevention of a nuclear war



SolarSuperState

National objectives and targets (recommended)

- A) Renewable energies for electricity, buildings, transport, plastics, metal production
- B) Net contribution to Global Cooling
- C) World without nuclear weapons

The SolarSuperState Association requests from all states the following objectives and targets

No	Objectives and targets	Delay
1	100 % national renewable electricity production versus consumption every hour of the year including necessary electricity storage	5 years
2	100 % national renewable energy versus consumption (including plastics)	10 years
3	100 % organic farming	Immediately
4	Obligatory treatment of manure of stock farming in biogas installations	2 years
5	Clean vegetable waste from agriculture, forestry, households, municipalities to production of biochar and bio-coal instead of composting or burning	4 years
6	Start of ecologically justified afforestation of deserts, savannah, areas of Alpine transhumance	Immediately
7	Standard new buildings: energy efficiency according to classic passive house and additionally higher energy production at the building than consumption in an annual balance with additional minimization of the use of grey energy and transition to renewable raw materials	Immediately
8	Standard old buildings: energy production at the building bigger than consumption in an annual balance, delay 10 years	Immediately
9	Prohibition of sale of new vehicles, machines, combustion plants, and heat pumps that are driven by fossil energies	Immediately
10	Conversion of weapon-grade uranium to low enriched uranium and prohibition of nuclear electricity production and ownership of nuclear weapons	Immediately

100 percent renewable energy within 10 years

Press release on 4.8.2019



100 percent renewable energy within 10 years for all states

SolarSuperState Association tightens its requests for states. The global warming problem gets worse. The states of the world are inactive. Climate protection is only possible with renewable energies. Therefore, the SolarSuperState Association requests now from all states 100 percent renewable energy (produced inside the state) within 10 years.

100 Prozent erneuerbare Energie innerhalb von 10 Jahren für alle Staaten

Die SolarSuperState Association verschärft ihre Anforderungen an Staaten. Die Erderwärmung wird immer schlimmer. Die Staaten der Erde sind untätig. Klimaschutz ist nur mit erneuerbaren Energien möglich. Darum fordert die SolarSuperState Association jetzt von allen Staaten 100 Prozent inländische erneuerbare Energie innerhalb von 10 Jahren.

Tax exemption, bank, board, secretariat

Tax exemption because of common public interest canton Schaffhausen, Switzerland	16.2.2017
Bank account in Swiss Francs	Raiffeisenbank Region Glatt, Switzerland
BIC SWIFT code	RAIFCH22
IBAN account number	CH50 8147 7000 0050 5767 2
Executive board president	Wolfgang Hein, Austria
Executive board member and treasurer	Kamal Shahrabi, USA
Executive board member	Pep Puig i Boix, Spain
Executive board member	Brigitte Schmidt, Germany
Executive board member	Fritz Wassmann-Takigawa, Switzerland
Executive board member without duties	Preben Maegaard, Denmark
General Secretary	Stephan Volkwein
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