

JOINT DECLARATION

of the Global 100% RE Strategy Group



1. Numerous studies have investigated 100% renewable energy (RE) systems in regions, countries, and worldwide, and they have found that it works, not only for providing electricity, but also for providing all energy.
2. A transformation to 100% RE can occur faster than current expectations: the power sector can transform by 2030 and the other sectors soon thereafter. With political will, a transformation of the global energy sector by 2030-35 appears to be possible!
3. Electricity in a 100% RE system will cost less than in our current energy system; the total energy cost of a 100% RE system will be lower than the cost of conventional energy, even if we exclude social costs.
4. The total social cost (energy, environmental, climate, and health cost) of a 100% RE system will be drastically lower than of business as usual. The sooner we achieve a 100% RE system, the faster these savings will be realized!
5. A 100% RE system can supply regions, countries, and the world reliably (24-7) with energy at low cost.

6. A massive re-design of the global energy system will be needed, including increasing energy efficiency on all levels.
7. Solar and wind will be the key pillars of energy supply, plus flexibility in many forms, especially storage, sector coupling, demand response management, large- and small-scale grid integration.
8. The studies agree that electricity will take a massively increasing share (about 80-95%) of the global energy supply. Electrification will result in a superabundance of cheap clean, renewable energy, increasing prosperity for all humanity.
9. All our studies show that creating the new 100% RE system will benefit the world economy. It will stimulate investments of trillions of dollars and create millions more jobs than lost worldwide. Superabundant clean, renewable energy will create wealth and provide a boost for every sector of the global economy,
10. Such a rapid transformation is necessary to stop the 7 million human deaths that occur annually today worldwide from air pollution, to slow the growing damage due to global warming and thus avoid the climate catastrophe, and to provide sustainable energy security for future generations.

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