



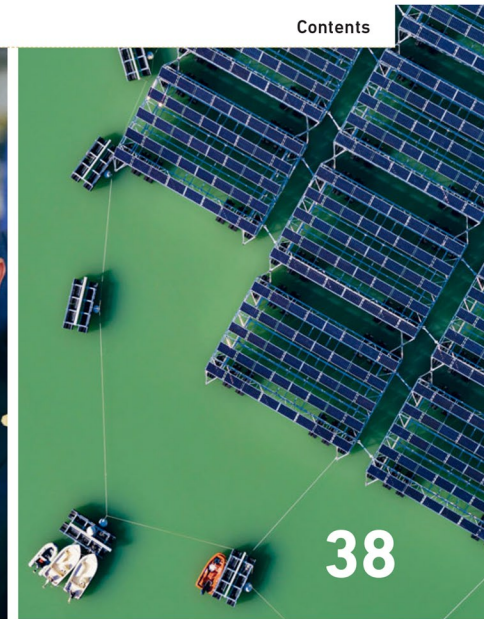
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**A cleaner future:** hydrogen can contribute to the energy transition in a variety of ways, for example by enabling carbon-neutral industrial production. How Germany plans to achieve this is set out in the new hydrogen strategy.



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**Late submission:** Angela Merkel's government was one of the last in the EU to send its revised climate plan to Brussels.



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**Floating solar:** Switzerland is exploring the potential of Alpine sites for solar farms like this floating array on the Lac des Toules reservoir.

**ENERGY POLITICS**

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- 6 | Cooperation with EREF
- 8 | **News:** Europe unveils hydrogen roadmap, EU stimulus measures lack climate ambition, Greens win big in France, end of the line for Spanish coal plants, Merkel praises Green Deal, state-backed loan for Nordex.
- 10 | **Listening to the people**  
Can citizens' assemblies help galvanise climate policy? France is trialling the idea in the wake of the yellow vest movement, while many in Germany look on with interest.
- 12 | **Six months too late**  
Germany has finally submitted its revised NECP to the European Commission. Environmental organisations had hoped for more.

**BUSINESS**

- 14 | **News:** German wind growth still sluggish, banks sign climate commitment, renewable energy costs at record low.
- 15 | **Insuring against catastrophe**  
In impoverished countries, the consequences of extreme weather events can be devastating. Dedicated insurance schemes are emerging in a bid to mitigate the damage caused by climate change.
- 18 | **"Back on the road to success"**  
...is where Enercon boss Hans-Dieter Kettwig hopes to be by 2022. We asked him what his company is doing to achieve this.

**TECHNOLOGIES**

- 21 | **News:** Trapping carbon with rock dust, lithium source found in Germany, breakthrough for plant-based power, warming warning from WMO.

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**COVER STORY**

- Hydrogen**
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Germany has outlined a hydrogen strategy that will require vast amounts of clean power, as well as imports from abroad – but in many respects the plan is short on concrete details.
- 26 | **A head start – at a price**  
Early starter Japan launched its hydrogen strategy in 2017. However, for the transition to help in the fight against climate change, the country must address the problem of emissions.
- 30 | **Hotspots of the hydrogen economy**  
An overview of three regions that could play a key role in ensuring a global supply of the precious gas.
- 36 | **A new spin on an old technology**  
A highly responsive and dependable form of energy storage, flywheels could play a key role in stabilising the power grids of the future.
- 38 | **New heights for PV**  
As it waves goodbye to nuclear, Switzerland is rethinking its energy mix. Solar panels are emerging as a popular alternative on rooftops, facades – and, most recently, dam walls in the Alps.

**Service**

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Cooperation with Deutsche Windtechnik