



**MAX-PLANCK-INSTITUT
FÜR PLASMAPHYSIK**

IPP and MOL Katalysatortechnik GmbH share the special prize of the Saxony-Anhalt Environmental Alliance.

Keep it cool: To prevent the IPP stellarator Wendelstein 7-X from overheating, it is surrounded by a cooling system in which cooling water transports the accumulated heat to the outside in a sophisticated 10 km long pipe system. If the pipes are exposed to the natural forces of water, the walls and weld seams can suffer serious damage: Deposits of microbiome, for example, corrosion, or cavitation, as the damage to the pipe walls caused by bursting bubbles is called.

The mineral-metal foils developed **by MOL Katalysatortechnik GmbH**, which are attached to the pumps of the “Wendelstein 7-X” cooling system, filter and clean the cooling water to drinking water quality - without the use of hazardous chemicals. The secret: **Tiny bubbles** of water vapor remove dirt and deposits without causing cavitation in the pipes - the bubbles with their 1 micrometre diameter are too small for this.

The company from Merseburg was recently awarded the Saxony-Anhalt Environmental Balance Special Prize for this technology. MOL GmbH shared the prize money - including the award - with IPP, as a result of which a symbolic check was quickly split in two today at the IPP site in Greifswald.

MOL Managing Director Jürgen Koppe states: "At the IPP, we are experiencing technological history live - that's what makes the collaboration so great." He adds: "With this tender, the state of Saxony-Anhalt has made it clear how interested it is in the development of such future-oriented technologies."

IPP project manager Rüdiger Krampitz also praises the collaboration with MOL: "The new cooling technology offers a number of advantages: **No use of chemicals, no corrosion inhibitors, low maintenance, durability.** The combination with the location here at the Wendelstein 7-X fusion plant was reason enough for the jury to choose us. That makes us proud, of course. And the prize money? "The money of course will be spent at the next summer party at the IPP site Greifswald.", ensures Krampitz.

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<https://www.youtube.com/user/plasmaphysik>

