

## A b s t r a c t

### **Polymeric materials in solar collectors**

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The paper outlines the impact of temperature on polymeric solar thermal collectors, and methods to reduce the thermal degradation.

If solar thermal shall play the role in the future that is desired and forecasted, new materials will be required. Both the IEA's-Solar heating and Cooling Programme and EU's 7 Framework Programme focus on polymeric collectors. The main barrier for a full breakthrough for the polymer solution is the temperature sustainability in situations where stagnation temperatures occur. This problem is significantly smaller for Nordic climate than at for latitudes further south. The strong engagement revealed by leading industries in the polymer sector can be an inspiration and opportunity for scientific and technical Nordic research groups to take a frontier position in this field.

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*Rekstad, J. et al., 2007. Polymeric materials in solar collectors. Proceedings of the 11th International Conference on Solar Energy in High Latitudes conference, Riga, Latvia, May 30 - June 1, 2007.*