




How to overcome non-technological barriers

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Non-technological barriers

1. **Awareness and know-how**
Lack of awareness about the possibilities and benefits of using solar cooling technology
2. **Demonstration**
Limited number of demonstration plants worldwide
3. **Cost**
High investment cost
4. **Market availability**
Limited availability of small capacity systems
5. **Policy and incentives**



How to overcome non-technological barriers

1. Information and dissemination

- Develop a strong Europe-wide campaign of the solar cooling technology to create broad awareness and new and better market implementation activities to decision makers and potential users.



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2. Demonstration

- A large number of demonstration projects is necessary and overall, real data about the performance of monitored plants is absolutely necessary.
- The existing solar cooling installations show a high cost reduction potential for the next generation of cooling plants.



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3. Training

- Specific training courses for professionals (installers).
- Inclusion of solar cooling technologies into standard education for engineers.
- Development of advanced modeling and simulation tools for designers and installers.



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4. Quality, operation and maintenance

- Improvement of components with respect to their performance (increasing the COP in case of chillers and the efficiency of solar collectors)
Reduce the cost of the components in order to make solar cooling plants more attractive.
- Standardization in the field of solar cooling plants, design guidelines, proven operation and maintenance concepts is necessary.



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5. Policy

- Introduction of legislation that requires Member States to keep statistics on energy demand for cooling purposes.
- Inclusion of solar cooling into financial incentive schemes and subsidies for solar thermal at national and European level.
- Subsidies to support the implementation of solar cooling technologies in order to ensure their effective penetration into the cooling market.
- Establishment of an accreditation process based on specific training together with a good track record of successful installations and client references.



Thank you very much for your attention

