


The winning combination for a sustainable future: **Solstice® 454C & Greenway® Neo N**



40%  Buildings represent 40% of the total energy consumption in the EU

80%  80% of the energy consumed in buildings is for heating, cooling and hot water

36%  36% of the EU's greenhouse gas emissions are from buildings

Solstice® 454C Very low GWP refrigerant

Solstice® 454C makes decarbonising heating easier, through **cheaper, safer** and more **energy efficient** heat pump development.



- GWP below 150.
- Long term solution for air, water and ground source heat pumps + thermal storage tanks.
- Refrigerant alternative to
 - R-410A
 - R-32
 - R-134a
 - R-407C.
- **Sustainability** and energy efficiency.
- **Safety:** A2L rating, can be used in all areas, including heavily populated.
- **Cost effective**, more economical than other heat pump technologies.
- R-454C heat pumps reduce end customer lifetime costs by using optimised components to improve energy efficiency by up to 11%.



Greenway® Neo Heat Pump N Bio-sourced heat transfer fluid

Greenway® Neo N is suitable for heating applications, air conditioning and domestic hot water production.



- Formulated with bio-sourced 1,3 propanediol.
- **Lower energy consumption:** viscosity < MPG.
- **Reduced environmental footprint:** consumes less energy and emits less CO₂ during its manufacture than MPG or synthetic chemical 1,3-propanediol.
- **Biodegradable:** reduced risk of soil pollution in the event of a leak.
- Bacteriostatic.
- **Reduce dependency on fossil fuels:** more sustainable lifecycle, from cradle to gate than petroleum-based MPG.

 **Example for the production of a 24T bulk tank of heat transfer fluid**



Production of 24T of **MPG 30%**
=
31.9T of GHG emissions



Production of 24T of **Bio-PDO 30%**
=
5.1T of GHG emissions

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