



# Promotion of biomass to replace coal and oil at local heating plants for cutting black carbon emissions in North-West Russia

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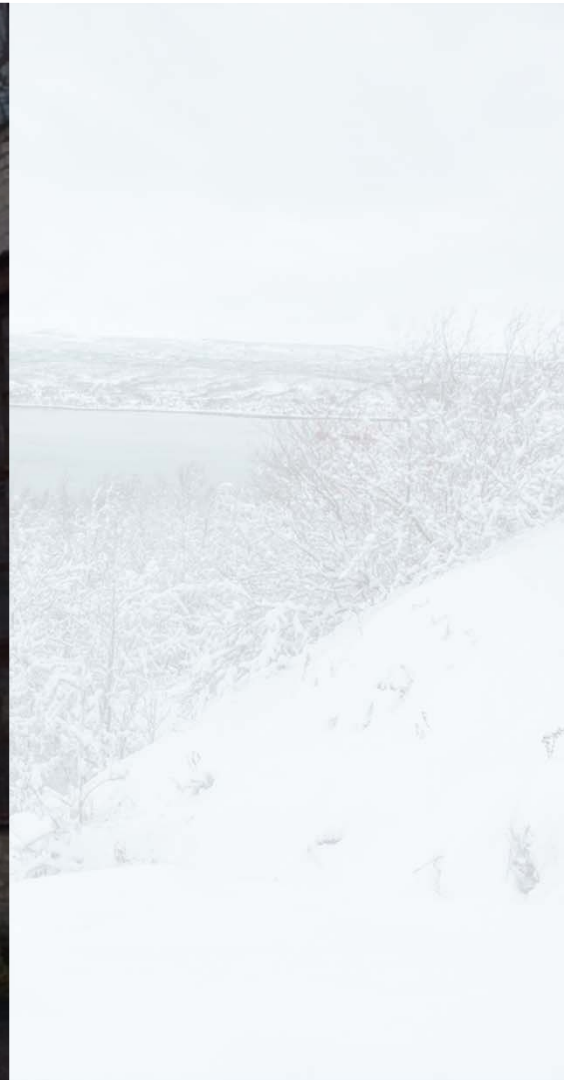
21  
November  
2018

VN.FI



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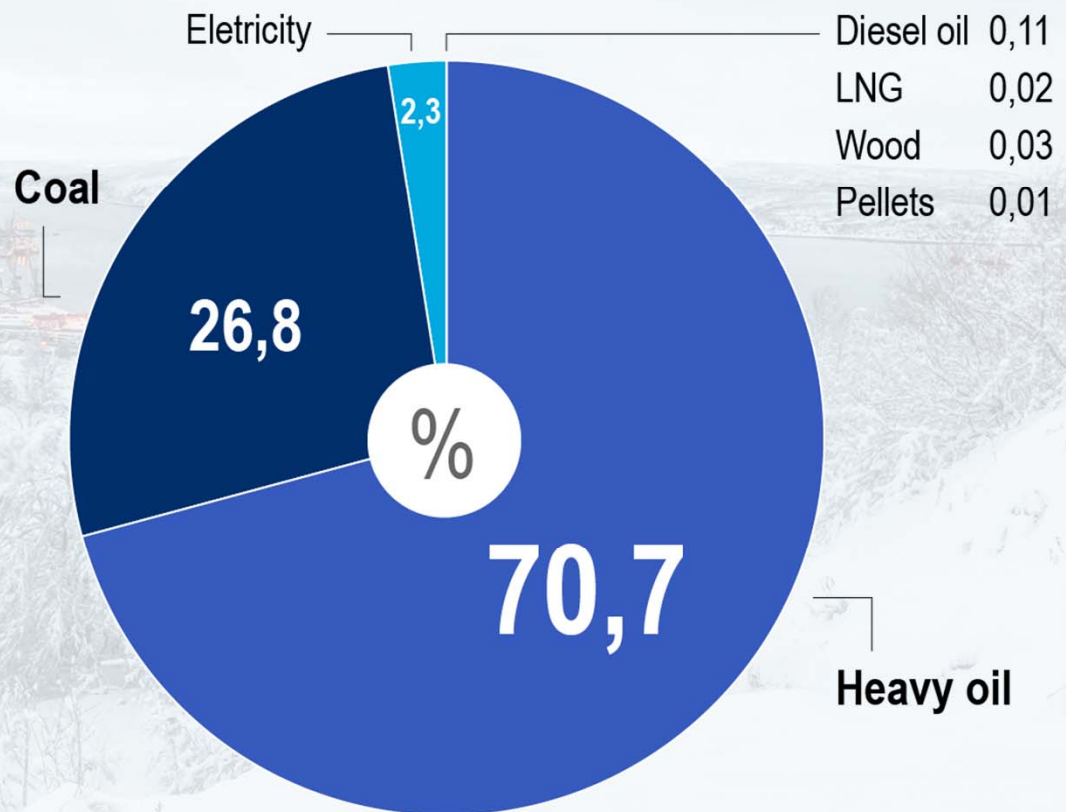
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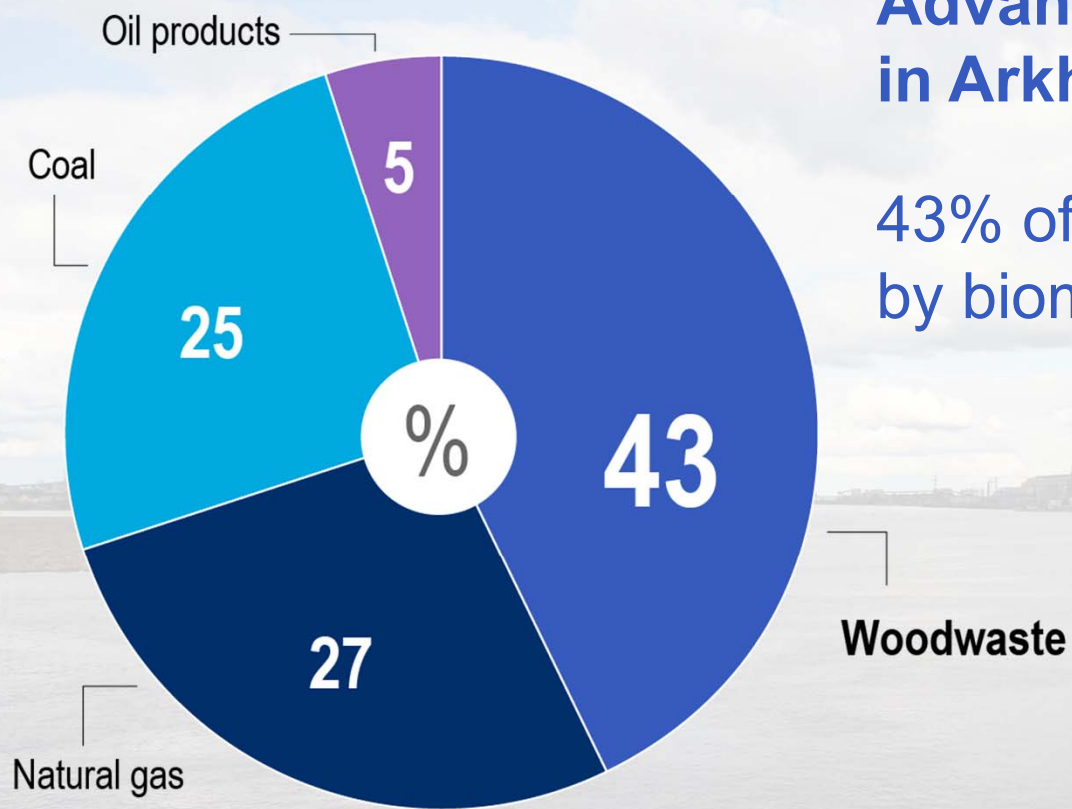




## Challenge in Murmansk oblast

97% of heating  
energy produced  
by coal/heavy oil





## Advanced progress in Arkhangelsk oblast

43% of heating energy by biomass