



Energy Production from Wastewater in Austria and Finland

By Katharina Karner

AV Akademikerverlag Mrz 2015, 2015. Taschenbuch. Book Condition: Neu. 220x150x5 mm. This item is printed on demand - Print on Demand Neuware - The search for possibilities to save energy and find new energy production opportunities is an important aspect in discussing the climate protection. Up to now, the heat which is stored in wastewater is not used. Wastewater heat recovery offers a resource saving, clean and cheap option of energy production in urban areas. In this thesis the function and structure of wastewater treatment plants are represented as well as the state of art of wastewater treatment in Austria and Finland. Furthermore, the possibilities of energy production and their impacts and costs in sewage plants are explained. The sewage plants in Helsinki and Turku are the first two wastewater treatment plants which use heat pump stations to produce energy. Austria has a big capacity in recovering heat from wastewater. According to the state of art, there are three possibilities of energy production from wastewater. Furthermore, environmental topics of the oil and gas industry are included as a sepearate part in this book g.e. cost of environmental incidents, impacts of produced water, biodiversity and water footprint. 76 pp. English.



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