

# KB BIOENERGY, INC.

Akron, OH, USA

<b>TYPE OF INDUSTRY</b>	Renewable energy
<b>MODEL OF DEHYDRATOR</b>	MDQ-354 CL
<b>START OF OPERATION</b>	2020 January

## ISSUE

The customer was looking for a solution to replace one of the three existing centrifuges as well as to increase dry solid content, reduce energy consumption and improve operation.

## SOLUTION

On-site pilot tests were carried out, using mobile dewatering unit MDQ-201, to find the best dewatering technology. According to the test results EKOTON offered sludge dewatering technology based on Multi-disc Screw Press Dehydrator MDQ-354 CL together with service platform.

## RESULTS

<b>TYPE OF SLUDGE</b>	anaerobically digested sludge
<b>OPERATING TIME</b>	23 h/day, 6 days/week
<b>UNIT SLUDGE SUPPLY</b>	up to 78 gpm up to 3,276 lbDS/h
<b>INLET SLUDGE DS CONTENT</b>	8.4 %
<b>CAKE DS CONTENT</b>	26.5 %
<b>POLYMER CONSUMPTION</b>	15.9 ml/gal of sludge
<b>TSS CONCENTRATION IN FILTRATE</b>	350-500 ppm
<b>DS CAPTURE RATE</b>	up to 99.4 %

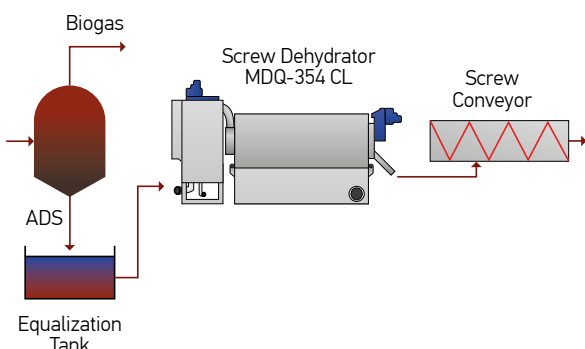


Figure 1. Technological scheme