

### SLUDGE Out of sight, out of mind, out of pocket

#### Municipal wastewater treatment plants:

- Hidden infrastructure, enormous costs
- Huge consumers of electricity and heat
- Most expensive item on property tax bill



• Excellent job in treating sewage to protect the environment

## <u>BUT</u>

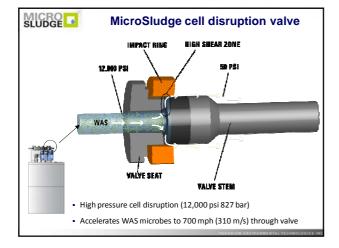
 Treat waste by product as a waste rather than extracting value

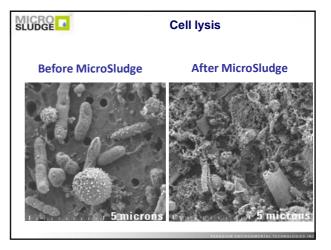


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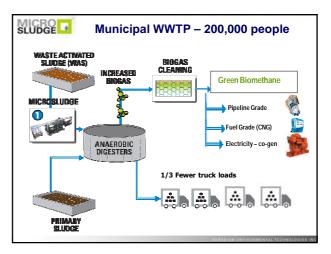
#### Waste activated sludge

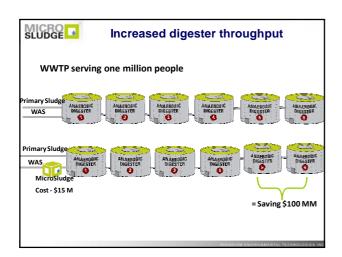
- Microbes are tiny bags of liquid protected by tough membranes
- Rupture membranes to release cytoplash containing biogas potential
- Most effective cell rupture technology: High pressure homogenization

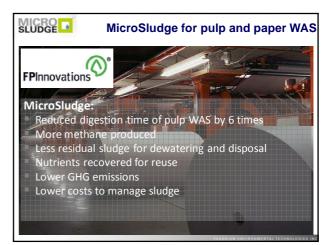


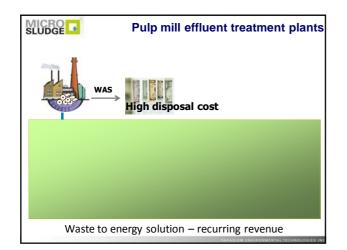




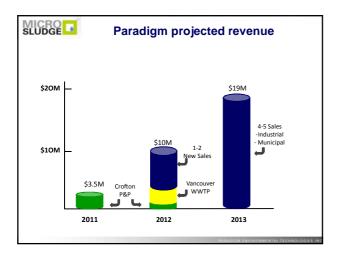












SLUDGE F	Financing	
<ul> <li>Common equity raised</li> </ul>	\$13.5 M	
<ul> <li>Largest shareholders</li> </ul>		
<ul> <li>BC Discovery Fund</li> </ul>	17%	
– Strategic partner (APV)	14%	
<ul> <li>Expansion Round (2011)</li> <li>Marketing and sales</li> </ul>	\$3M+	
<ul> <li>Industrial and municipal reference sites</li> </ul>		

SLUDGE Intellectual property	SLUDGE Directors
<ul> <li>Patent: new application of a proven technology</li> <li>Awarded: USA, Canada, EU, China, Mexico, Australia, Hong Kong, South Korea, India, Brazil</li> <li>Proprietary "know how" – Significant barrier to entry</li> </ul>	<ul> <li>Harry Jaako, Chairman, Principal of Discovery Capital Mgmt.</li> <li>Michael Volker, President &amp; CEO of GreenAngel Energy</li> <li>Joseph Houssian, CEO of Elemental Energy Inc.</li> <li>Philip Heller, President and CEO of McKenna Mgmt. Corp.</li> <li>Dennis Morin, founder of Wonderware Software Development Co</li> <li>Len Williams, President, CEO and founder of Progressive Solutions</li> <li>Gordon Skene, President and CEO, Paradigm</li> </ul>

