

PURPOSE  **ENERGY™**

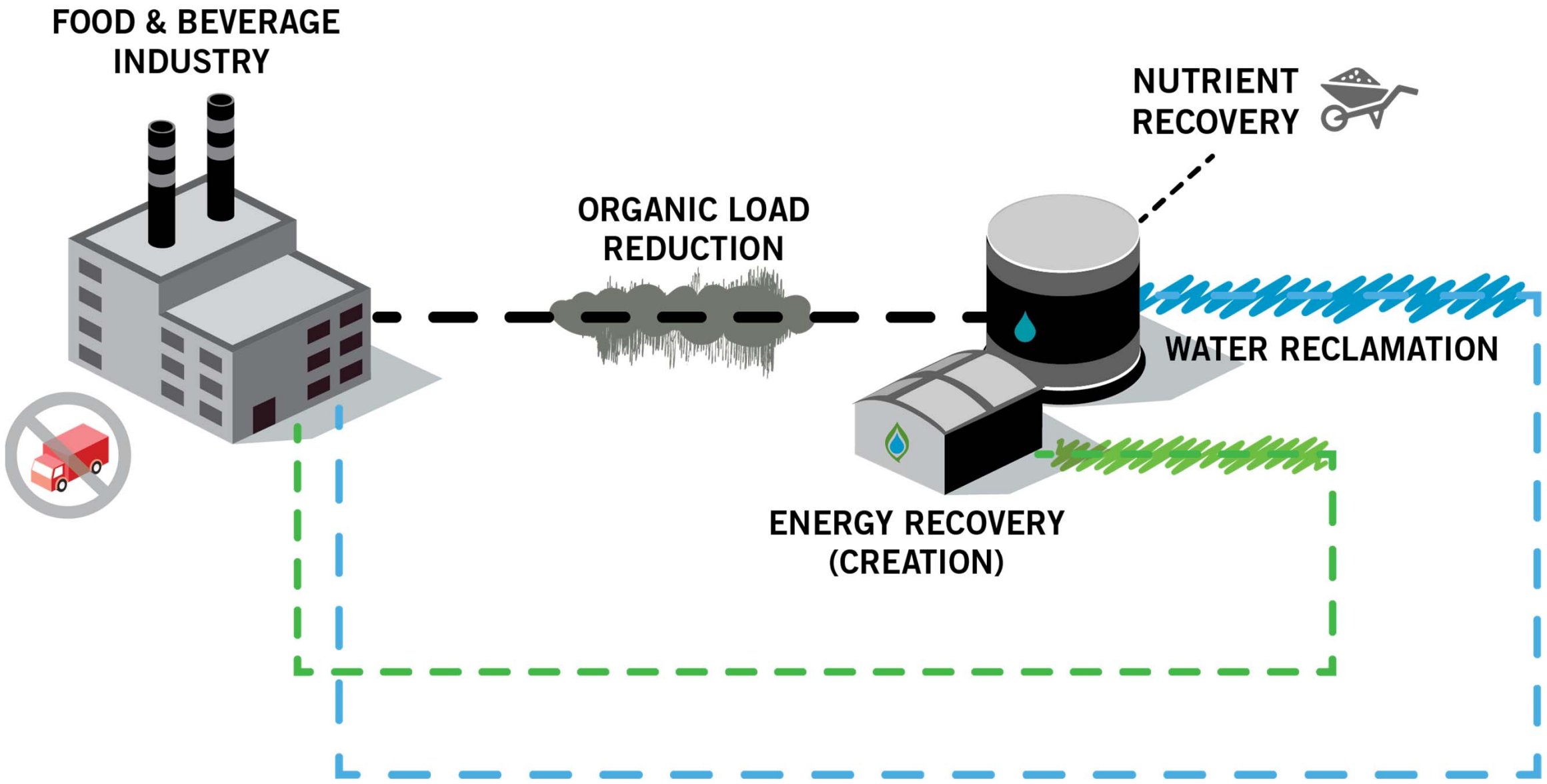
Digest this.

New England Regional Pretreatment
Coordinators Association
2020 Annual Workshop
Pandemic Wastewater Disruption

©2015 PurposeEnergy, Inc. All Rights Reserved.



PurposeEnergy Develops Food and Beverage Digesters



Pandemic Beer Basics

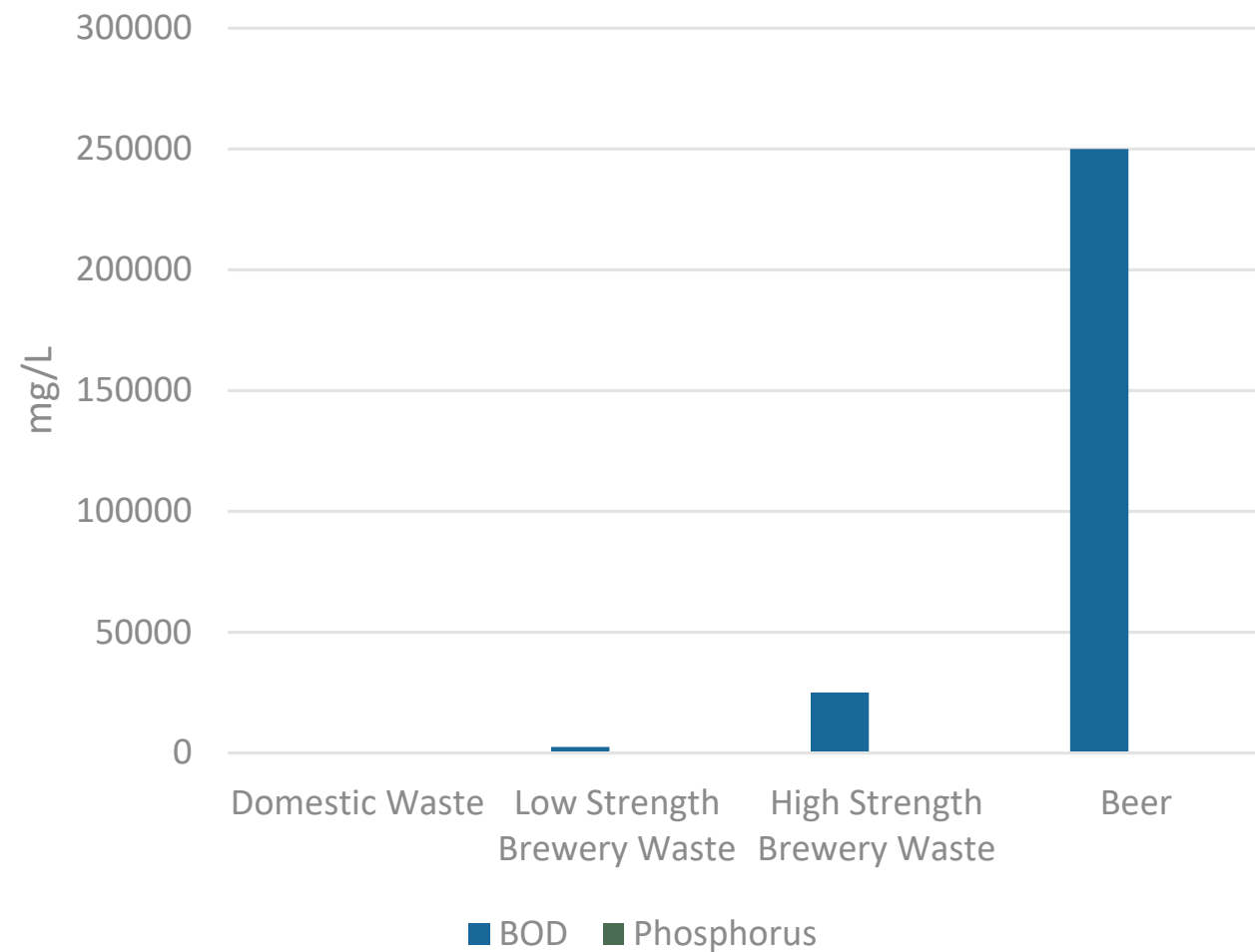


- Beer is packaged and labeled for specific markets
- “Quarantine” resulted in increased retail sales (cans, bottles)
- Unfortunately inventory packaged for restaurants and venues (e.g., Fenway, Gillette) became stranded and expired

What's the Big Deal?



Brewery Waste Compared to Domestic Waste



Logarithmic Comparison

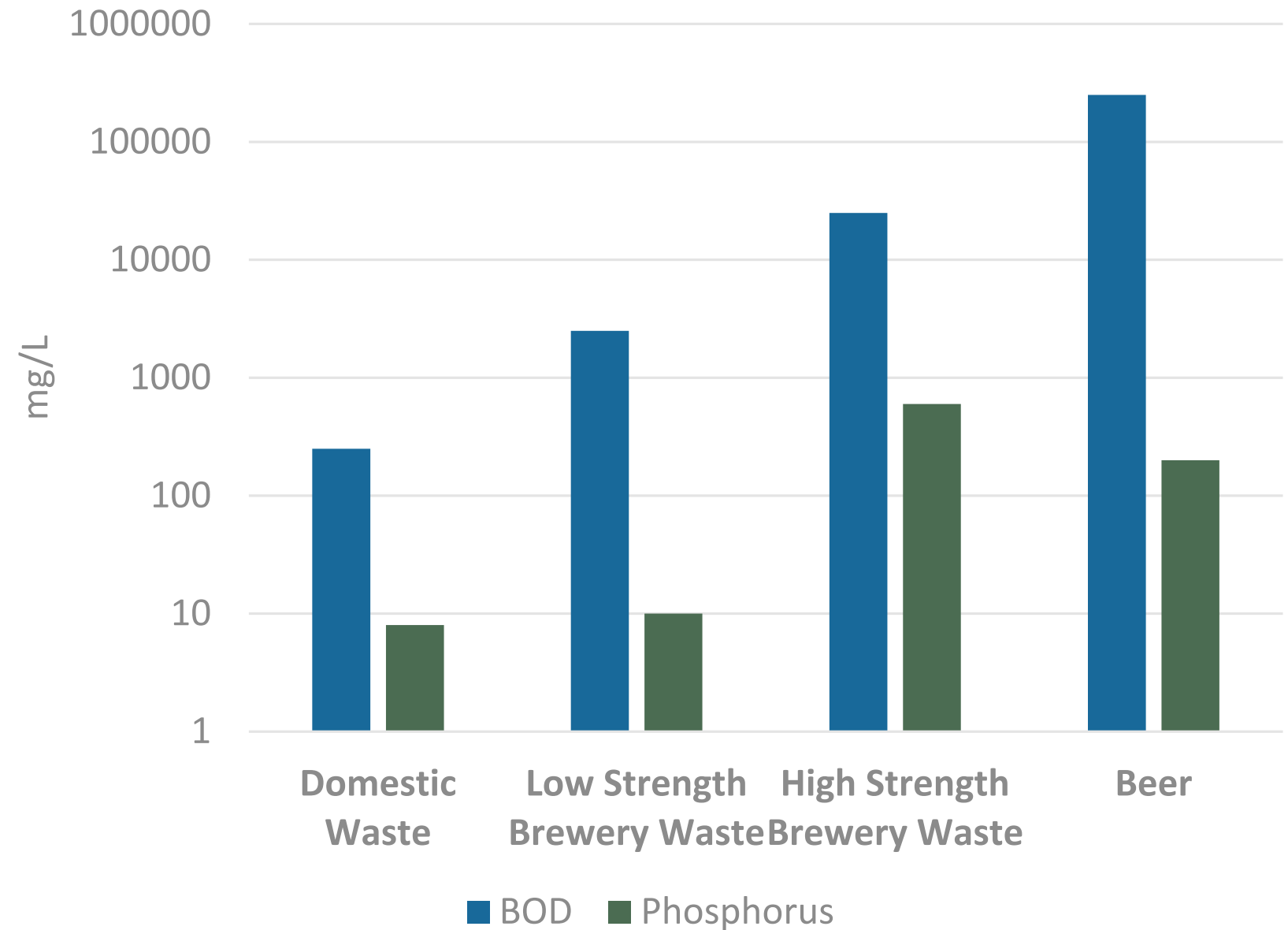
Note the logarithmic scale

Beer is 3 orders of magnitude higher in organic load concentration than domestic waste

CONCLUSION – traditional, aerobic municipal wastewater treatment plants are not suited to receive high volumes of beer

Alternatives include anaerobic digestion and distillation

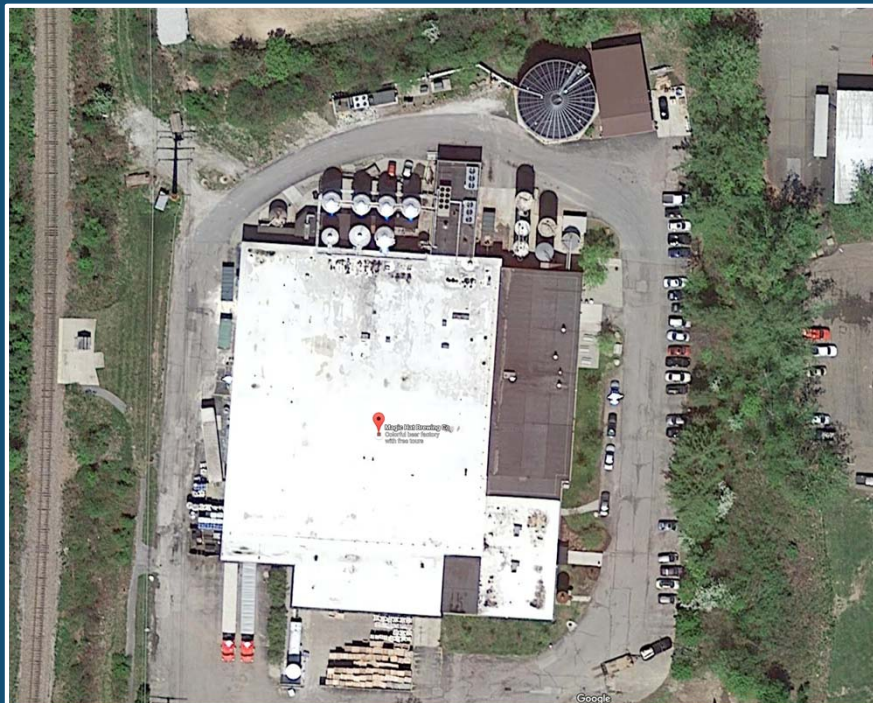
Brewery Waste Compared to Domestic Waste



South Burlington Digester at ~~Magic Hat~~ Brewery

ZeroGravity

Developed, Owned, & Operated by PurposeEnergy™



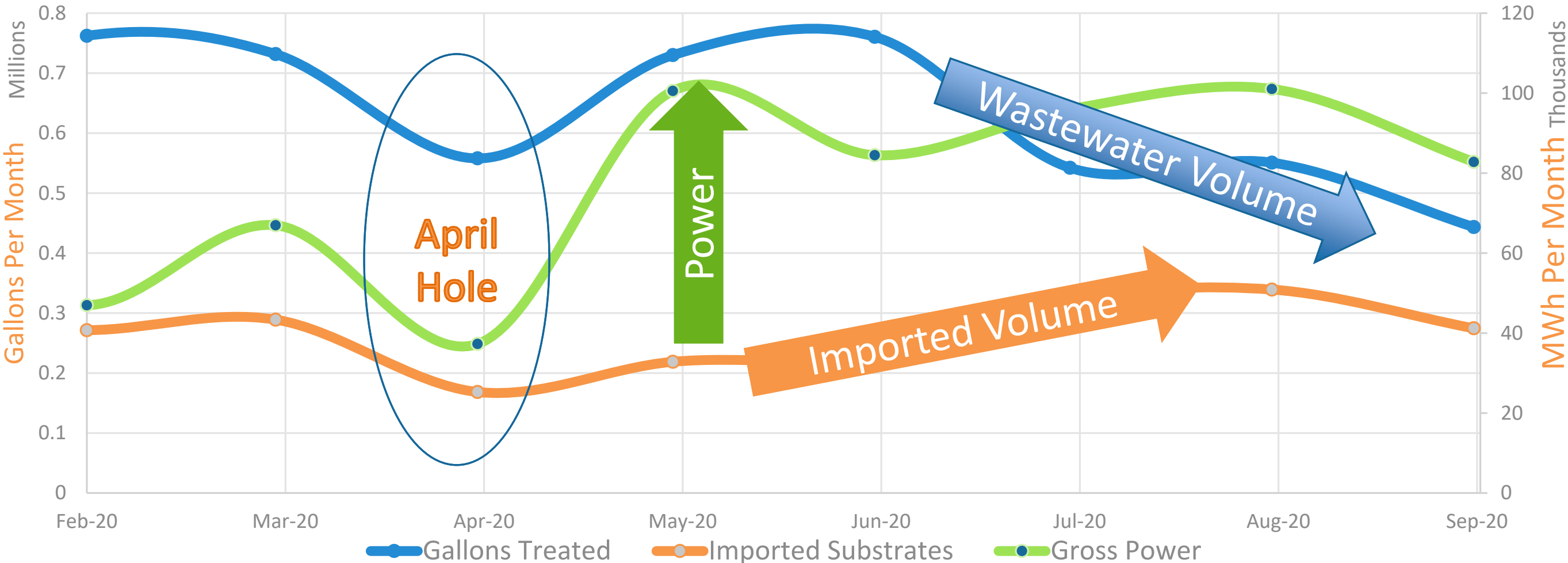
- 70% savings to host brewery
- Supplemental feedstocks include skim milk, whey, ice cream, soft drink production waste, FOG, glycerin, nutraceutical waste
- Tip fees charged to waste producers
- Digester makes methane...methane makes electricity...electricity is sold to the grid

At least a dozen breweries haul waste to this facility

Pandemic Wastewater Trends



PurposeEnergy South Burlington Pandemic Production



Thank you – Questions?



Eric Fitch

PurposeEnergy, Inc.

fitch@PurposeEnergy.com

(844) DIGESTER

©2015 PurposeEnergy, Inc. All Rights Reserved.

