





LOEWS VANDERBILT NASHVILLE

WARNING

Some participants may find the following presentation disturbing. It is designed for technical educational awareness and insights.

All third-party content has been acknowledged. No copyright or trademark infringement is intended.

Viewer discretion is advised.



















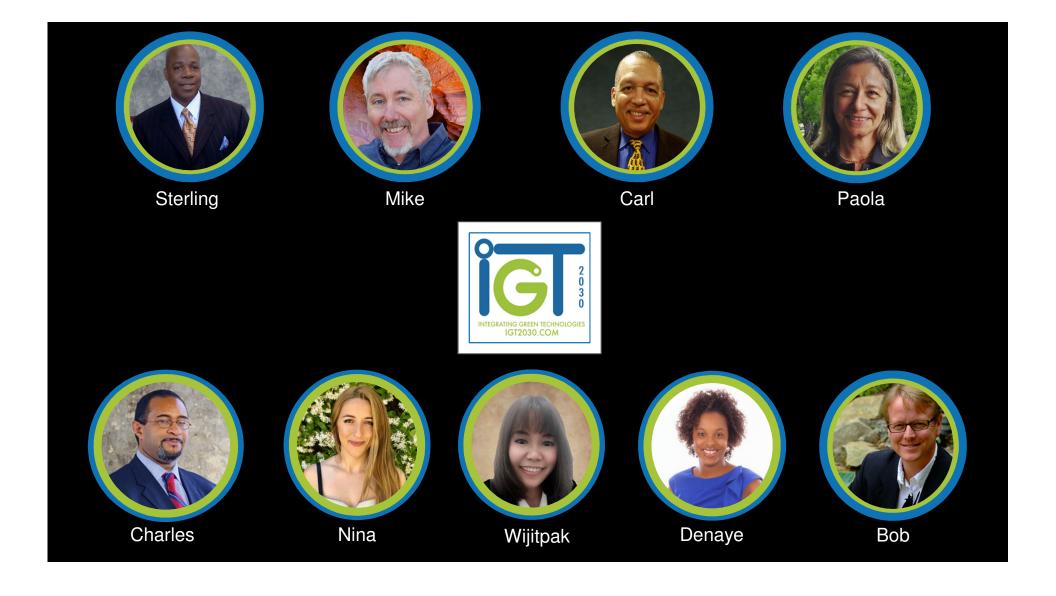
UNITED STATES OF AMERICA, the STATE OF FLORIDA DEPT OF ENVIRONMENTAL PROTECTION and the STATE OF FLORIDA,

Plaintiffs,

MIAMI-DADE COUNTY, FLORIDA,

Defendant,

CONSENT DECREE



DADE COUNTY

57.6B sewer de

A federal judge said he will decide 'quickly' whether to accept a proposed settlement over pollution violations by Miami-Dade County.

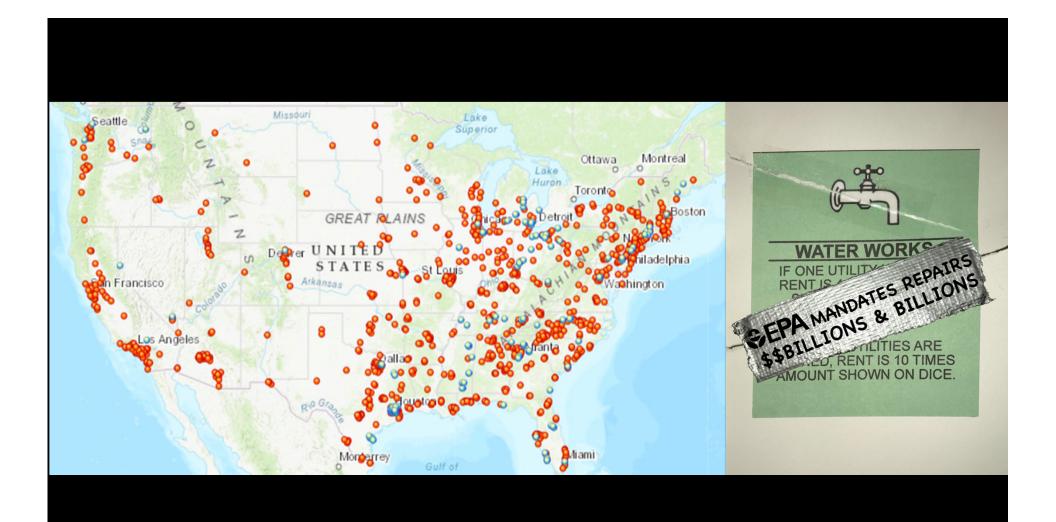
er.

BY PATRICIA MAZZEI pmazzei@MiamiHerald.com

A Miami federal judge aid Monday he has some ncerns about a legal setnext 15 years to fix its dilapidated sewer system.

Chief among them: that the penalties Mir County would b











South Pointe Park on Miami Beach. PATRICK FARRELL - pfarrell@miamiherald.com

MIAMI BEACH

Poop alert: Swimming advisory issued for South Beach

MIAMI-DADE COUNTY

No swimming advisory issued for Biscayne Bay, Intracoastal after sewer spill

BY CARLITEPROFF

cteproff@miamiherald.com



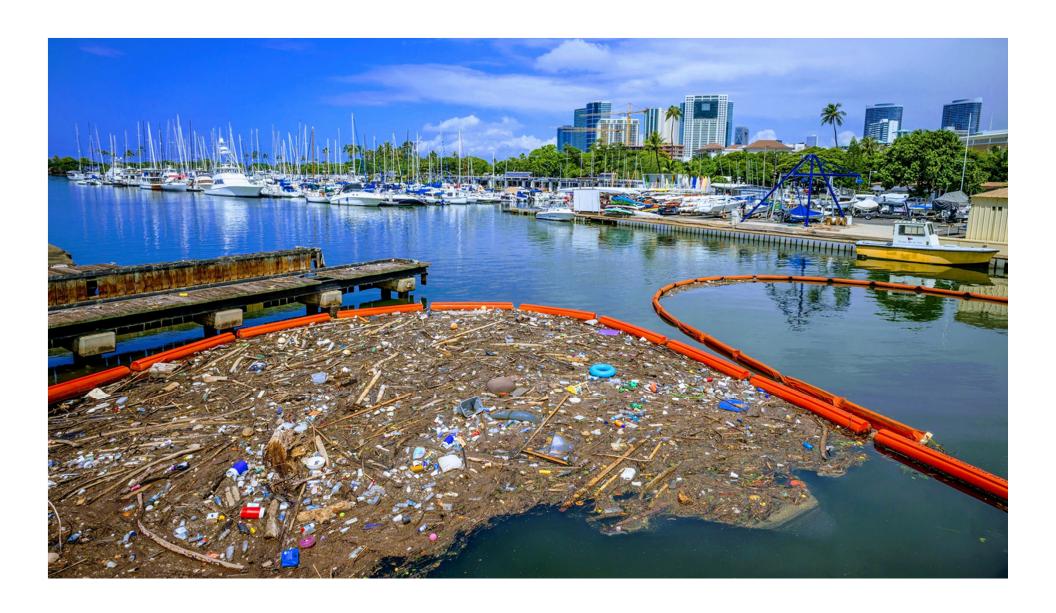
JUNE 20, 2017 9:42 PM



People are being told to stay out of parts of Biscayne Bay and the Intracoastal Waterway after a 63-inch sewer line broke Tuesday.



A sewer spill at 840 NW 155th Ln. sent waste into the Biscayne Canal, which then flowed into the Intracoastal. The Florida Department of Health issued an advisory to stay out of the water. **Miami-Dade Water and Sewer**



Data courtesy of Circle of Blue 2015 & Bluefield Research 2019





Rate Increases Are Hidden Taxes

30% Increase 8-yr period





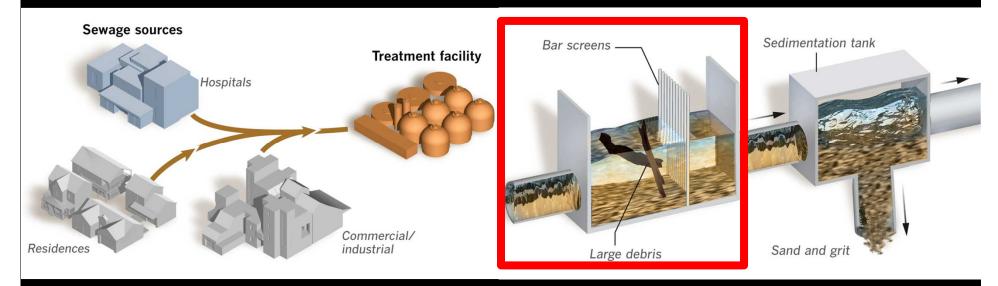
Public Sewer Maintenance 24/7



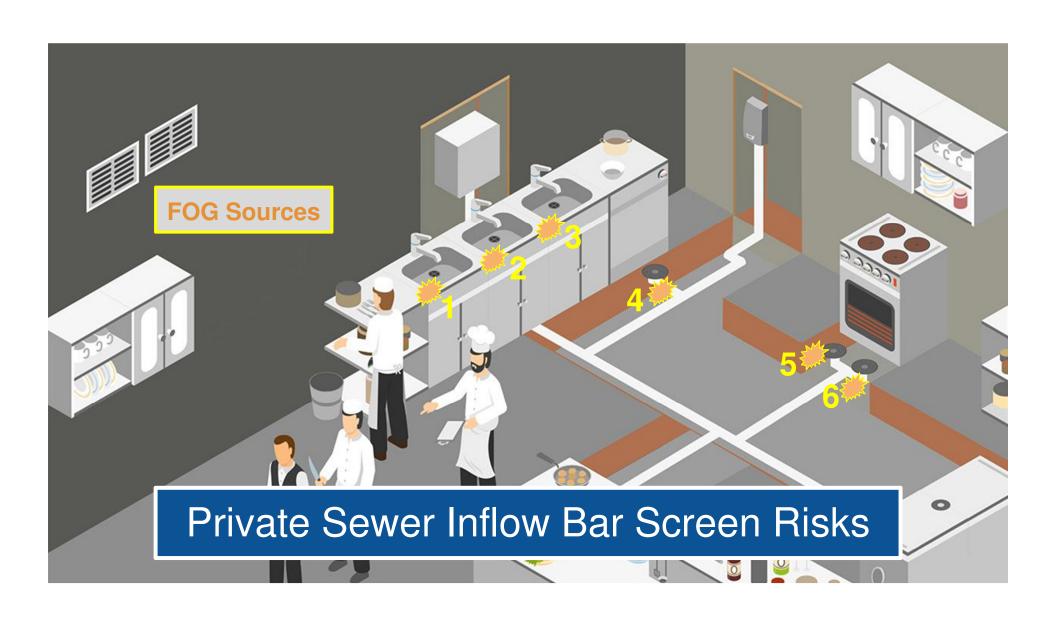


Know Which Service You're Getting

Public Sewer Inflow









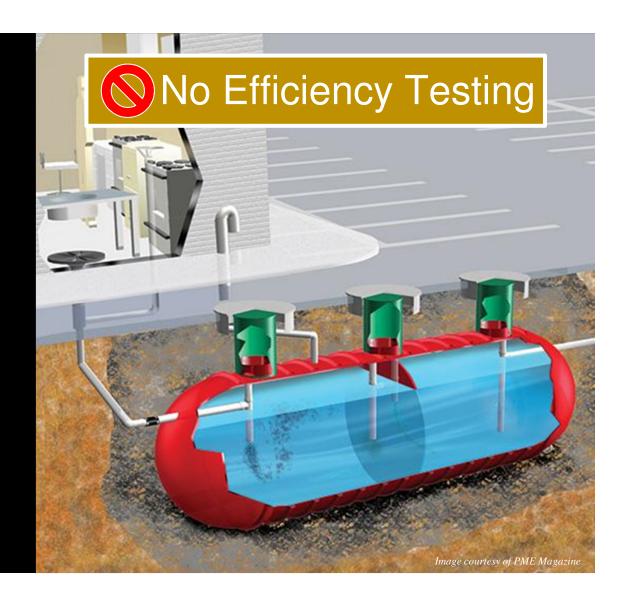
MINIMUM SYSTEM DESIGN

Negative impact on SSSG

Avoidance not a viable option

Plumbing system unprotected











TESTING NOT REAL WORLD

Most cities mandate 100 mg/L

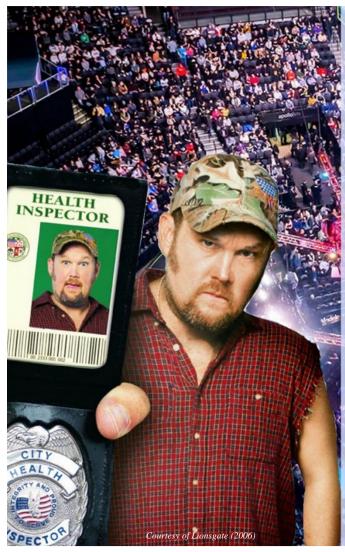
Every 100 mg/L ~ 1% efficiency

Certification happens at 90%

No detergents no food solids

Efficiency Test + Bar Screen Risk





TALE of the TAPE

Minimize Pollution	Objective	Maximize Profit
Minimum Requirements	FOG Design Permits	Minimum Requirements
None One Size Fits All	Future Proofing	Yes Same Store SG
Detailed Rules	FOG Maint Plan Design	Boiler Plate
One Size Fits All	Type of Cuisine	Dynamic Menus
DFUs mg/L	Native Language	Degrees lbs/oz
8:00am 4:28pm	Work Hours	Open to Close
No Bonus OT Uncommon		Performance ased Incentives
ο%*	Employee	75%**

Turnover

Society for Human Resource Mgmt* National Restaurant Association**





Violations Increase Cleaning Frequency

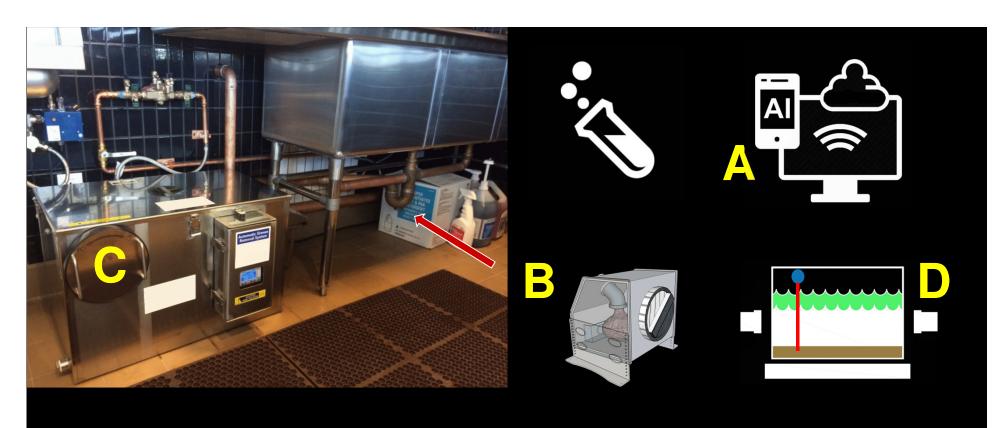




Top <u>5</u> Reasons Why Aiming At Permit Minimums Cost So Much!

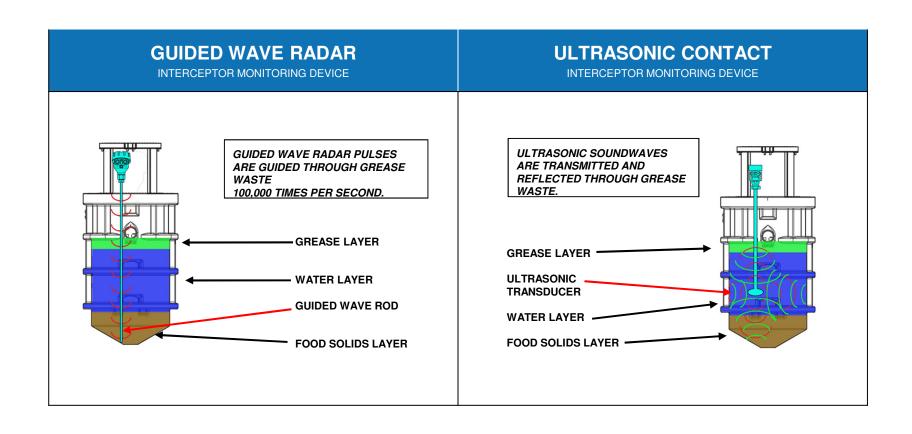
Why You Don't Get What You Thought You Paid For

- **5.** Ordinances do not consider impact on your OPEX.
- 4. Obtaining a permit does not win an effective FOGs system.
- 3. Rules are not written to protect you or your investment.
- 2. Higher SSSG means more FOGs+Food+Trash to control.
- 1. You'll only get a service not a flexible platform for SSSG.





Preventive Front-of-Line Technology

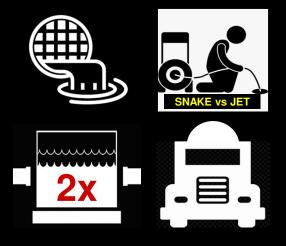


THE BUSINESS CASE FOR CONTROLLING FATS OILS AND GREASE: Violations & Fines

Integrating Green Technologies

6 CLEAN WATER AND SANITATION







2,000%
Increase after 20 days

THE BUSINESS CASE FOR CONTROLLING FATS OILS AND GREASE: Asset Management

Integrating Green Technologies

9 INDUSTRY, INNOVATION AND INFRASTRUCTURE





More Than Fire Code

Roofs are unprotected
Smoke cools becomes FOG
FOG eats roof membranes
Rain runoff is pollution





Report on Business Opportunities 2016



THE BUSINESS CASE FOR **CONTROLLING FATS OILS AND GREASE: 360° Risk Management**

Integrating Green Technologies

DECENT WORK AND ECONOMIC GROWTH







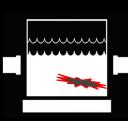










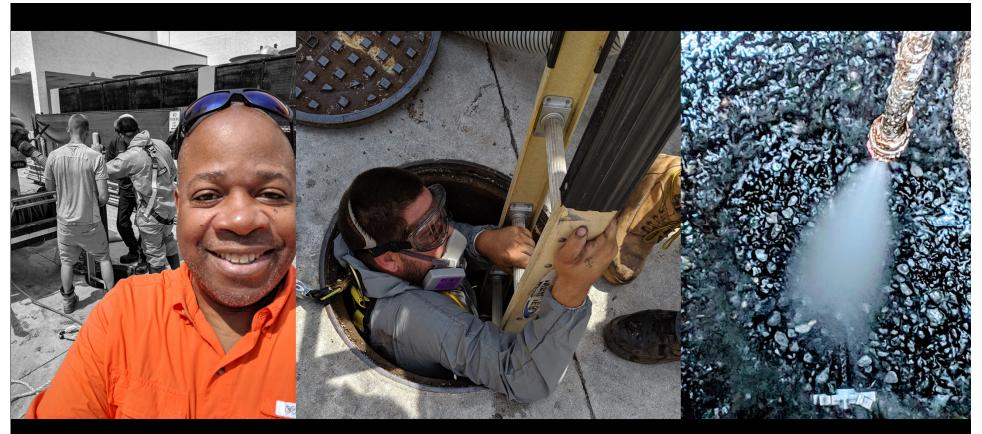




Look before you lease or build More focus on maintenance costs Identify waste disposal conditions Clarify water works recycling + landfills









FOGs Condition Assessment







\$13.5 Billion
Package Waste
Carbon Emissions
Food Waste N/A*



\$750 Billion*

BlackRock

Goldman Sachs*

CitiBank

MSCI ESG Rating example only



\$27 Billion

PURCHASE PRICE

Real Assets

Intangibles

\$5.7 B

\$7.9 B







Liabilities

Total Value

(\$3.4 B)

\$10.2 B

\$16.8 B

\$27 Billion

PURCHASE PRICE

GOODWILL

SUSTAINABLE GEALS DEVELOPMENT

































PRELIMINARY PLAN REVIEW

Unapprovable system was approved by a regulator

Install would have led to court action closure

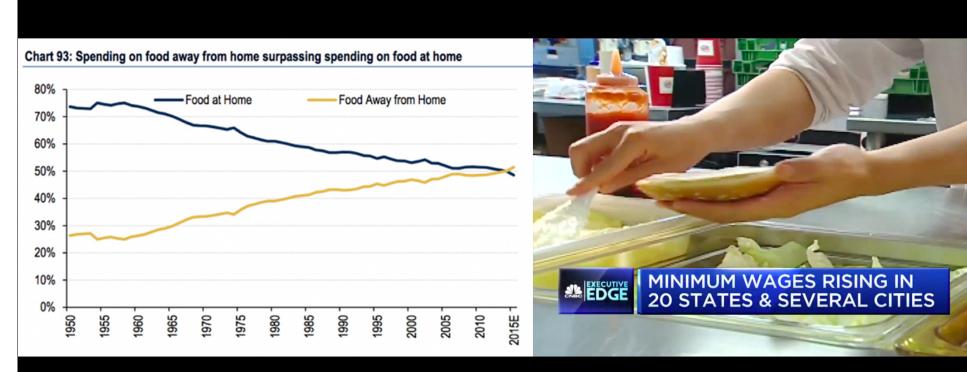
Court Backlog 2022-2023







Expensive Liability No Sales



HIGH CUSTOMER EXPECTATIONS

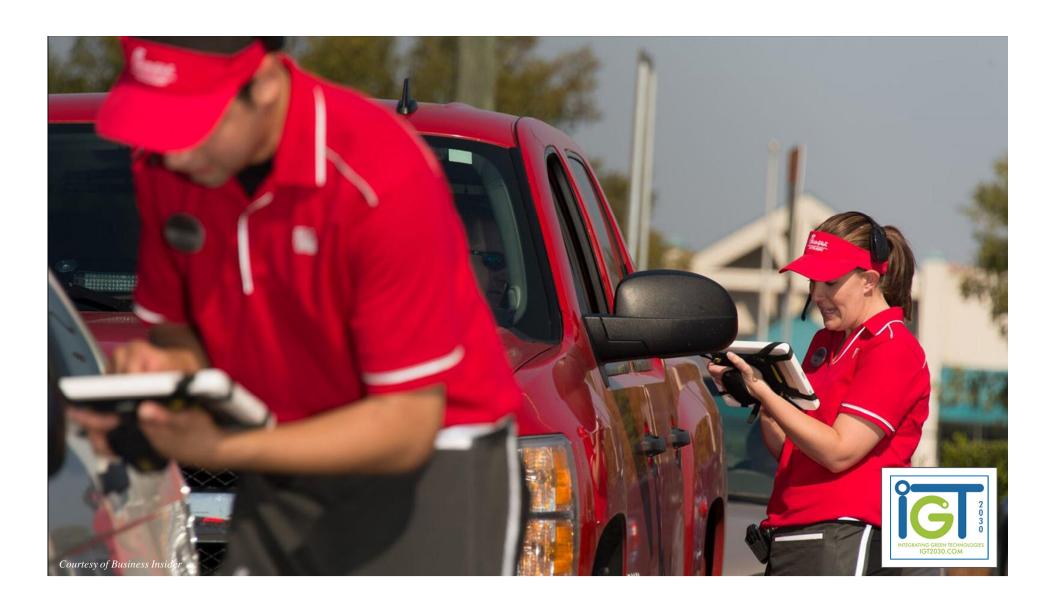
Food spend higher than at home

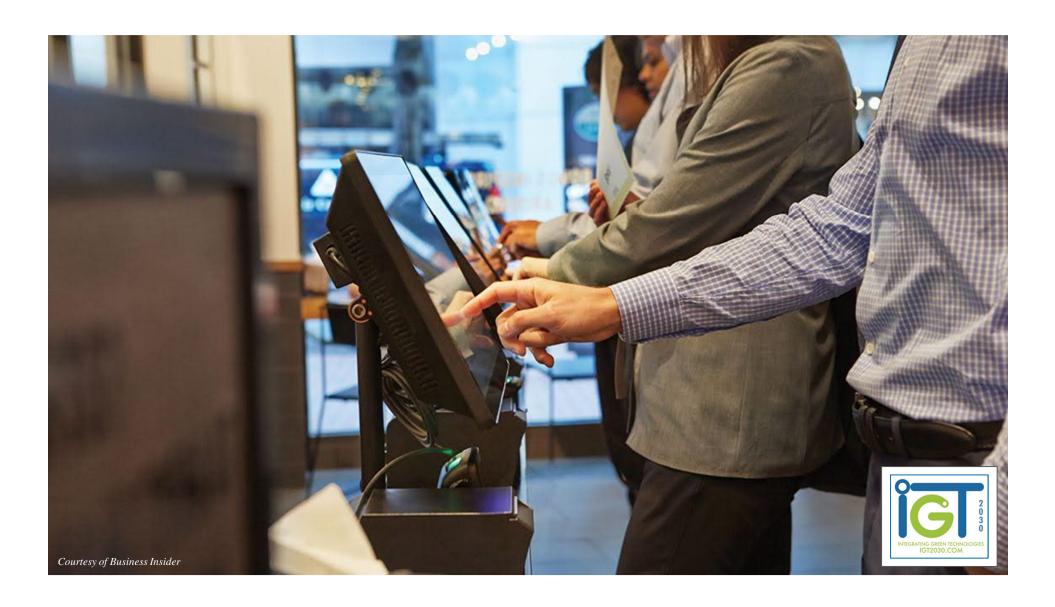
High quality + ideal prices expected

INCREASING OVERHEAD COSTS

Average staff retention 2 month

Rising operating costs















Courtesy of Business Insider Australia





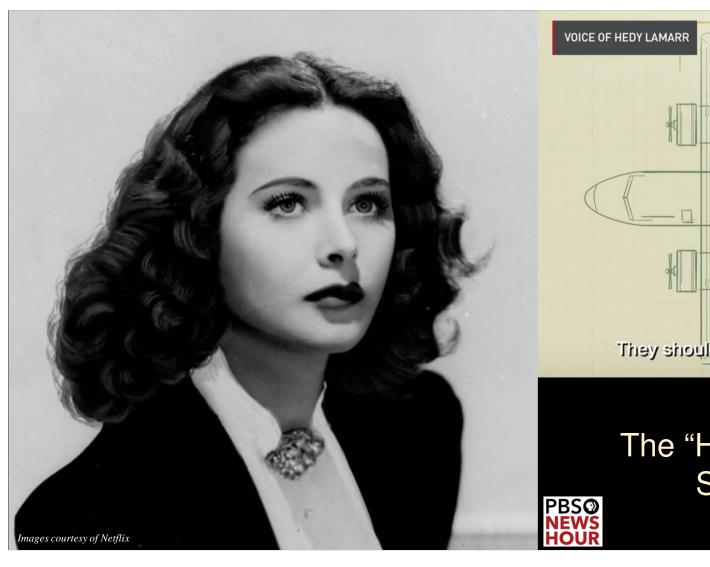
GHOST + VIRTUAL KITCHENS

Labor costs reduced 15 - 50%

Transactions 75 - 100% of typical restaurants









The "Hedy Lamarr" Strategy





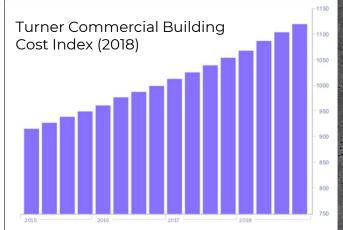
DO MORE

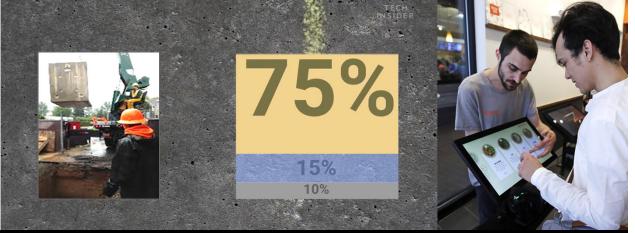
WITH LESS















Courtesy of Tech Insider



8 years 3,000+ Students







INNOVATIVE DESIGN CREDIT

Mixed-Use + Hospitality + Retail

Residential FOG System

Spa 2 Pools + Party Room - 8th FL

Sky Bar + Restaurant - 10th FL

Rooftop Lounge - 25th FL





Remaining Years of Capacity 2021+

Annual Loss Rate

-5.0%

8

-2.5%

14

-4.0%

11

-1.5%

22

-1.9%

17

-2.6%

15

US Region

Northeast

Southeast

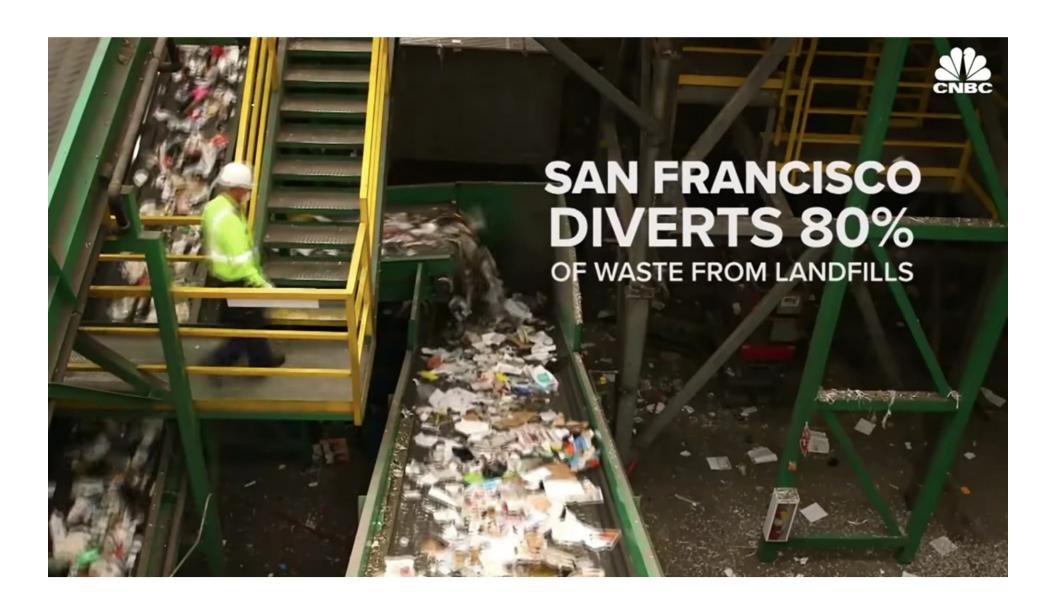
Midwest

Western

Pacific

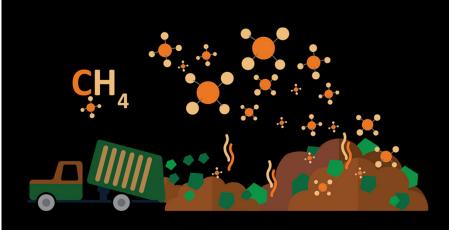
USA

Data collected by Waste Business Journal 2018 China graphic courtesy of Polymatter









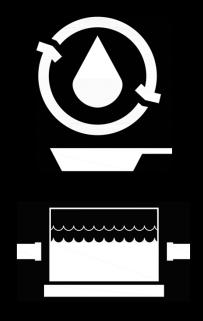
2017 US EPA DATA SET

30 - 40% Food Wasted

22% of all incineration

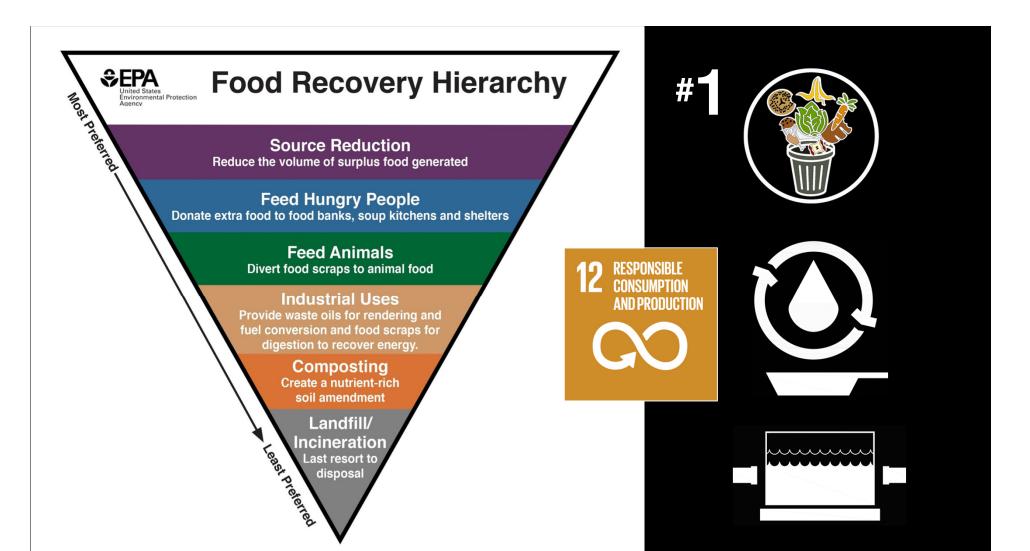
High performance BTUs







METHANE GAS



THE BUSINESS CASE FOR REDUCING FOOD LOSS AND WASTE: Restaurants

CONSUMPTION AND PRODUCTION

RESPONSIBLE



A Report on Behalf of Champions 12.3



114

RESTAURANTS

12

COUNTRIES

76%

YEAR - 1

89%

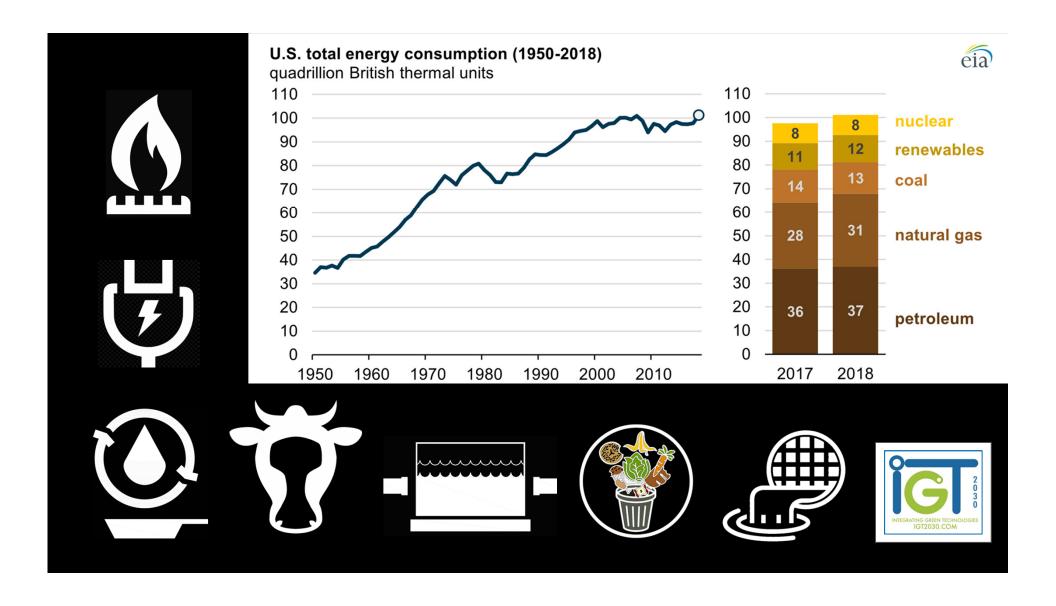
YEAR - 2

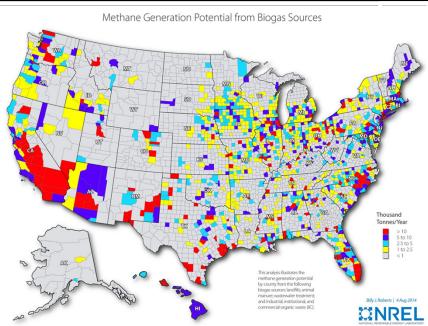


\$.4m - 17.3m

FOOD SALES

14:1 COST BENEFIT







130,000 Tons FOG+Food Waste Annually

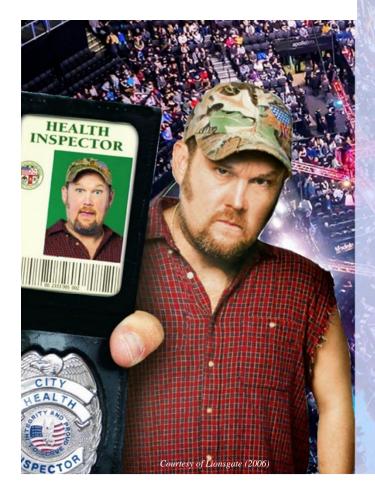






Cutting Through The FOGs

How to get what you thought you paid for



TALE of the TAPE

Mishandling FOG Control
Systems Costs Operators
Way Too Much

Following Boiler Plate
Government Rules Is A
No Win Scenario

Anything Less Than A 360° View Is A Major Disadvantage

Deliver Scalable
Preventive Maintenance
Via Internal Al Social
Platform
Costs Drop When FOG
Scoring Is Part Of Annual
Store Reviews



