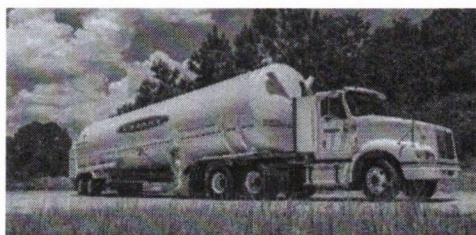


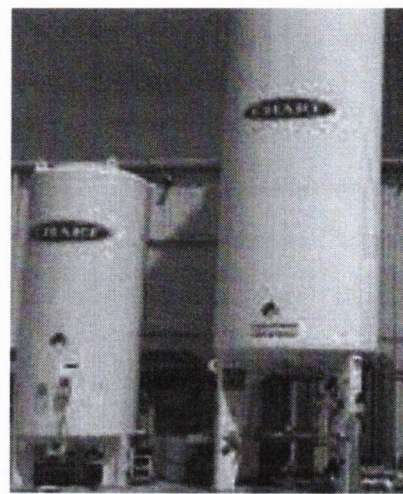
A Division of Chart Industries (NYSE: GTLS) Leader in CO2 Storage and Distribution



- ✓ **150 Year Old Company**
- ✓ **\$4 B Global Leader in Cryogenic CO2 Capture and Storage**
- ✓ **Build and Design CO2 Tank & Truck**
- ✓ **Engineering Support**
- ✓ **Global Supply Chain Support (Chiller / HX)**
- ✓ **Manufacturing Support (Tulsa, Georgia)**

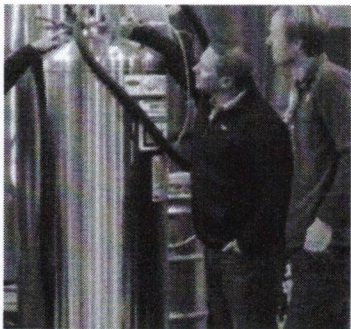
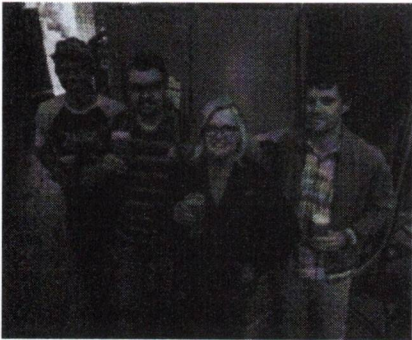


**CO2 Trucks &
CO2 Supply Chain Partners**



**On Site Tanks
(DOT Tanks / On Wheels)**

Earthly Labs Making Carbon Capture History with Chart Leader in Small Scale Carbon Capture



nrg | cosio
CARBON XPRIZE

Founded company
Selected 38 out of 140
global entries
2016



Selected ABINBev
100+ Accelerator
21 out of 300+
global entries
2018

Forbes

Carbon capture
from small scale
sources
2018

The
Washington
Post

CO2 Exchange
Cannabis
2020

CNN

Turning Carbon
Dioxide into Liquid
Gold
2020

CHART



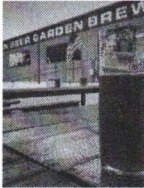
Earthly Labs

IOT CCU platform with
More Small Scale
Systems in World, with
marketplace of CO2
partners
2021

CiCi® Product Roadmap By CO2 Capture Volume

Expand Line to Capture Most Market Share

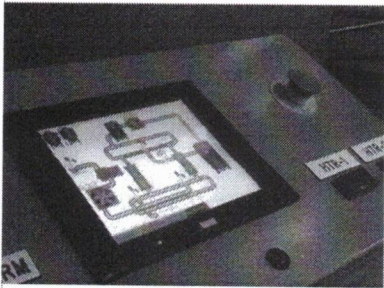


LAUNCHED 2018		2020 INITIAL CUSTOMER / R&D	DESIGN 2020 / BUILD 2021 / LAUNCH 2022
CiCi® Model Oak  PRODUCTION BREWERIES 5K-20K BBL CO2 Purity: 99.9 – 99.99% CO2 Capture / Yr: 50K – 150 K lbs		CiCi® Model Teak  BREW PUBS 1K – 4K BBL CO2 Purity: 99.9 – 99.99% CO2 Capture / Yr: Up to 70K	CiCi® Model Elm  LARGE CRAFT BREWERIES 25K – 200K BBL + Purity: 99.9 – 99.99% CO2 Capture / Yr: 500K – 2 M lbs

Earthly Labs Carbon Capture Solution (Software)

Real-time Control, Monitoring & Alerts

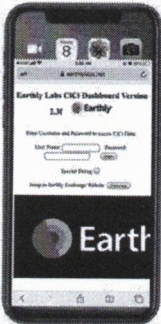
SOFTWARE 1.0



- DIGITAL HMI
- PLC

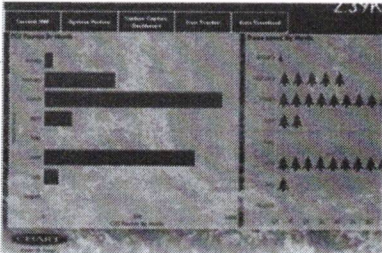


CLOUD & MOBILE DASHBOARD



- HMI FOR BREWER
- OPERATIONAL KPIS
- ECONOMIC KPIS
- IMPACT KPIS
- MAINTENANCE

2022 CONTINUED INNOVATION



- IMPACT DASHBOARD IN TAPROOM
- FEED TO WEBSITE
- TRADE / REBATE
- FUTURE
- ALERTS TO PHONE
- NET ZERO GOALS

Beverage Quality with Earthly Labs Recovered CO₂ Exceeds ISBT Beverage CO2 Standards

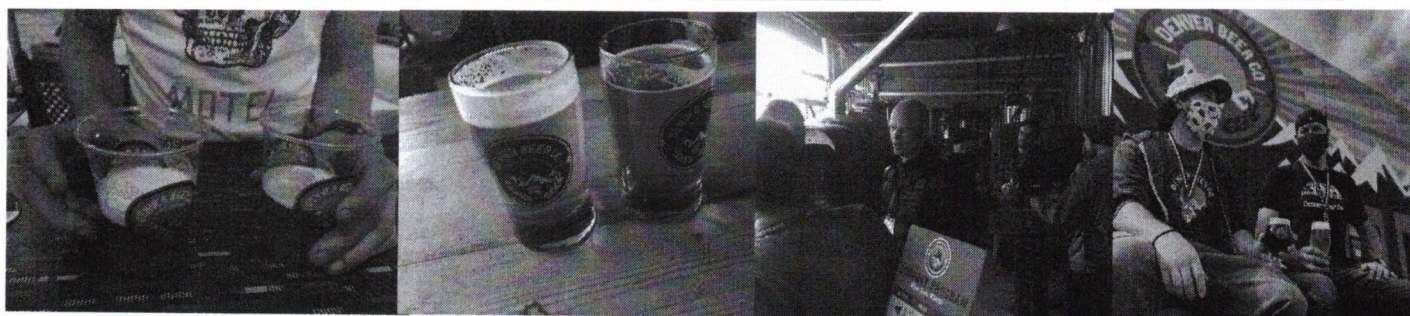
Earthly Labs - Recovered CO2 Quality Reports (3 Customers)

ISBT STANDARD

RESULT	PARAMETER, CHEMICAL	RESULT	PARAMETER, CHEMICAL	RESULT	PARAMETER, CHEMICAL FORMULA (UNITS)	DL	METHOD	ISBT GUIDELINE LIMIT
99.99+	Purity	99.99+	Purity	99.99+	Purity CO ₂ (% v/v)	5.	ISBT 4.0	99.9% v/v min.
nd	Methane	nd	Methane	nd	Methane CH ₄ (ppm v/v)	1.	ISBT 0.0	25 ppm v/v max.
nd	Oxygen	nd	Oxygen	nd	Oxygen O ₂ (ppm v/v)	4.	ISBT 4.0	30 ppm v/v max.
nd	Carbon Monoxide	nd	Carbon Monoxide	nd	Carbon Monoxide CO (ppm v/v)	0.5	ISBT 0.0	10 ppm v/v max.
nd	Ammonia	nd	Ammonia	nd	Ammonia NH ₃ (ppm v/v)	0.5	ISBT 6.0	2.5 ppm v/v max.
nd	Nitrogen Monoxide	nd	Nitrogen Monoxide	nd	Nitrogen Monoxide NO (ppm v/v)	0.5	ISBT 7.0-1	2.5 ppm v/v max.
nd	Nitrogen Dioxide	nd	Nitrogen Dioxide	nd	Nitrogen Dioxide NO ₂ (ppm v/v)	0.5	ISBT 7.0-1	2.5 ppm v/v max.
--	Non-volatile Residue	--	Non-volatile Residue	--	Non-volatile Residue NVR (ppm w/w)	1.	ISBT 6.0	10 ppm w/w max.
nd	Methanol	nd	Methanol	nd	Non-volatile Organic Residue NVOR (ppm w/w)	1.	ISBT 6.0	5 ppm w/w max.
nd	Total Volatile Hydrocarbon	nd	Total Volatile Hydrocarbon	nd	Methanol MeOH (nom v/v)	0.2	ISBT 0.0	10 nom v/v max.
nd	Total Non-Methane HC's	nd	Total Non-Methane HC's	1.8	Total Volatile Hydrocarbons THC (ppm v/v as CH ₄)	0.1	ISBT 10.0-1	50 ppm v/v max.
nd	Acetaldehyde	nd	Acetaldehyde	1.8	Total Non-Methane HC's TNMHC (nom v/v as CH ₄)	0.1	ISBT 10.0-1	20 ppm v/v max.
nd	Aromatic Hydrocarbon	nd	Aromatic Hydrocarbon	nd	Acetaldehyde AA (ppm v/v)	0.05	ISBT 11.0	0.2 ppm v/v max.
nd	Total Sulfur Content	nd	Total Sulfur Content	0.03	Aromatic Hydrocarbon AHC (ppb v/v as C ₆ H ₆)	2	ISBT 12.0	20 ppb v/v max.
nd	Sulfur Dioxide	nd	Sulfur Dioxide	nd	Total Sulfur Content TSC (ppm v/v as S)	0.02	ISBT 13.0	0.1 ppm v/v max. (excl. SO ₂)
	Sensory Tests		Sensory Tests		Sulfur Dioxide SO ₂ (ppm v/v)	0.02	ISBT 14.0	1 ppm v/v max.
--	Odor of Solid CO ₂ (Snow)	--	Odor of Solid CO ₂ (Snow)	--		na	ISBT 15.0	No foreign odor
PASS	Appearance of Solid CO ₂	PASS	Appearance of Solid CO ₂	--	Odor of Solid CO ₂ (Snow Residue)	na	ISBT 15.0	No foreign appearance
PASS	Odor in Water	PASS	Odor in Water	PASS	Appearance of Solid CO ₂ (Snow Residue)	na	ISBT 16.0	No foreign odor
PASS	Taste in Water	PASS	Taste in Water	PASS	Odor in Water	na	ISBT 16.0	No foreign taste
PASS	Appearance in Water	PASS	Appearance in Water	PASS	Taste in Water	na	ISBT 16.0	No color or turbidity
				PASS	Appearance in Water			

Recovered CO₂ Quality Assessment

Aroma + Head Retention + Taste



Better Head Retention

Better Lacing

9 / 10 Brewers Preferred
Recovered CO₂

Powering
Award-winning Beers

**"We had reclaimed (CO₂) gas in two of the
three beers we won at GABF ® this year."**

– Charlie Berger, Co-founder



CO2 Capture Potential / Elm

Production: 3,500,000 L

Earthly Labs - CO2 Capture Rate Analysis						
Free Flow						
Production Volume	30,000	bbl	3.5	L		
Cost of CO2	1.54	/lb	3.4	/kg		
ABV Profile:	4.5 - 7%					
Estimated CO2 Production:	0.34					
CO2 Scenarios	Total MT	Total LBS	% of CO2 Purchased	% Emitted	CO2 Savings	Trees Planted
CO2 Purchased Annually (MT) - Est. 10 lbs/BBL	136	300,000				
Estimated CO2 Production (.34 lbs CO2 / Gallon)	143	316,200				
1 Unit: Estimated Capture Rate (80% Capture)	115	252,960	84%	80%	\$ 389,558.40	2,941
1 Unit: Estimated Capture Rate (90% Capture)	129	284,580	95%	90%	\$ 438,253.20	3,309
FV's: 4 x 40 HL (34 bbl), 4 x 60HL (51 bbl), 2 x 120HL (102 bbl), 2 x 240HL (204 bbl)						

- Additional Benefits:
- ✓ Enhance quality of CO2 and resulting beer
 - ✓ Elevate brand, drive customer demand and loyalty
 - ✓ Enhance resilience with short supply chain
 - ✓ Brite tank recapture

CO2 Capture Potential / Elm

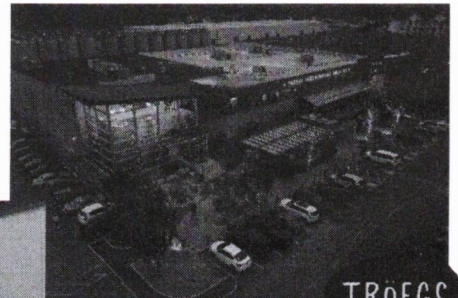
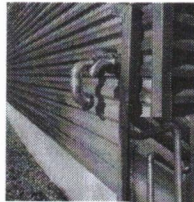
Production: 7,000,000 L

Earthly Labs - CO2 Capture Rate Analysis						
Free Flow						
Production Volume	60,000	bbl	7M	L		
Cost of CO2	1.54	/lb	3.4	/kg		
ABV Profile:	4.5 - 7%					
Estimated CO2 Production:	0.34					
CO2 Scenarios	Total MT	Total LBS	% of CO2 Purchased	% Emitted	CO2 Savings	Trees Planted
CO2 Purchased Annually (MT) - Est. 10 lbs/BBL	272	600,000				
Estimated CO2 Production (.34 lbs CO2 / Gallon)	287	632,400				
1 Unit: Estimated Capture Rate (80% Capture)	229	505,920	84%	80%	\$ 779,116.80	5,883
1 Unit: Estimated Capture Rate (90% Capture)	258	569,160	95%	90%	\$ 876,506.40	6,618
FV's: 4 x 40 HL (34 bbl), 4 x 60HL (51 bbl), 2 x 120HL (102 bbl), 2 x 240HL (204 bbl)						

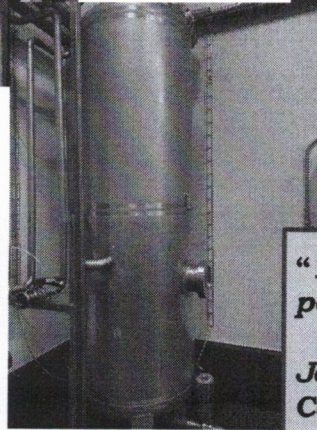
- Additional Benefits:
- ✓ Enhance quality of CO2 and resulting beer
 - ✓ Elevate brand, drive customer demand and loyalty
 - ✓ Enhance resilience with short supply chain
 - ✓ Brite tank recapture

CiCi (Elm) Updates

- ✓ Scaled to meet CO2 Capture Needs
- ✓ 50 K BBL / annual
- ✓ Energy consumption – Toppling Scale
50 kW / h
- ✓ 5-Skid Modular Design
- ✓ Rated for Indoor or Outdoor
- ✓ Leverage existing manifold & pipework
- ✓ Easy retrofit – inside or outside facility
- ✓ Made in US (Chart Tulsa) reduce supply chain risk



TROEGS
INDEPENDENT
BREWING



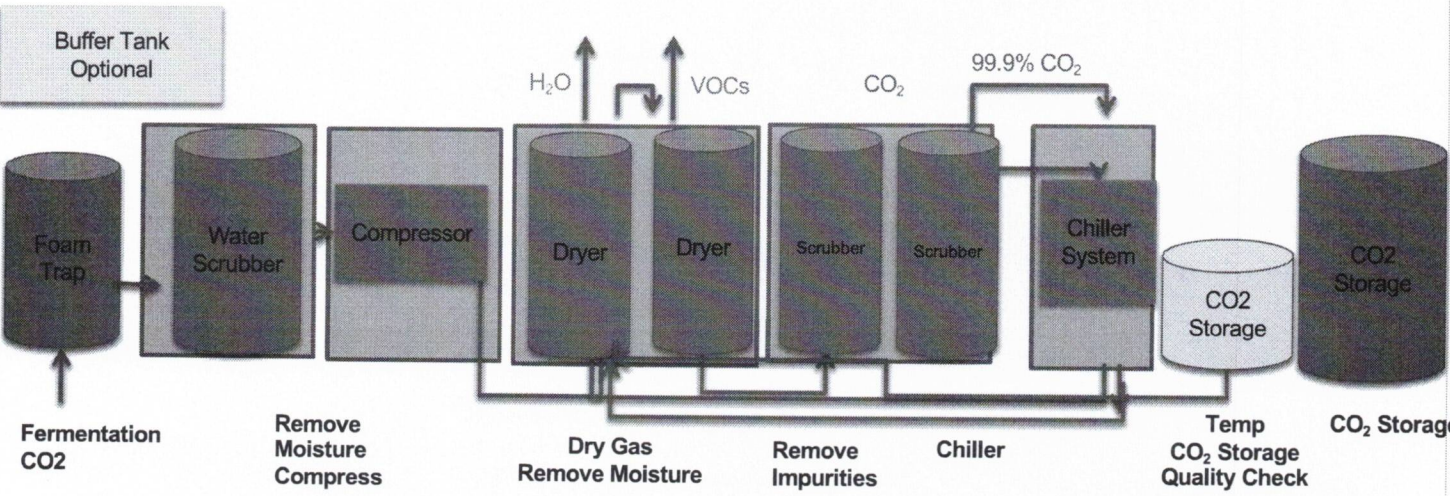
***"1,000,000 pounds of CO2
per year or more"***

***John Trogner
Co-founder & Head Brewer***

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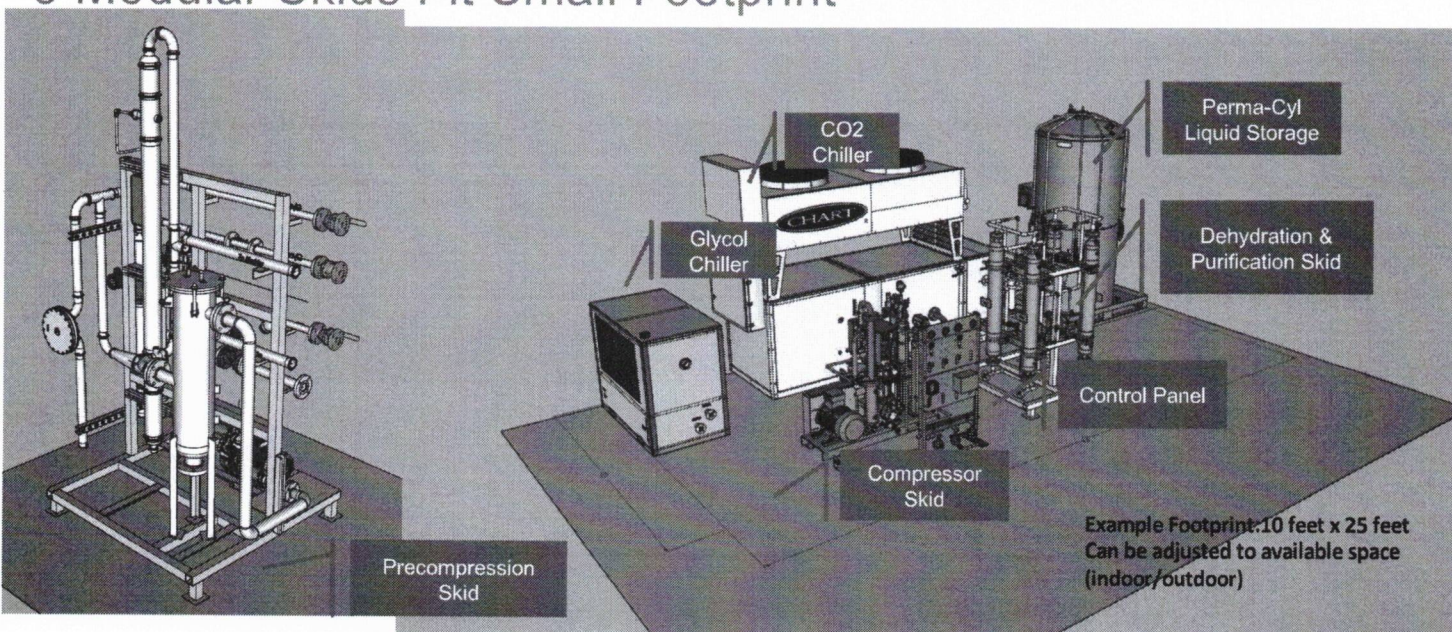
CiCi® (Elm) Solution

5 Modular Skids to Purify, Dry, & Liquify CO2

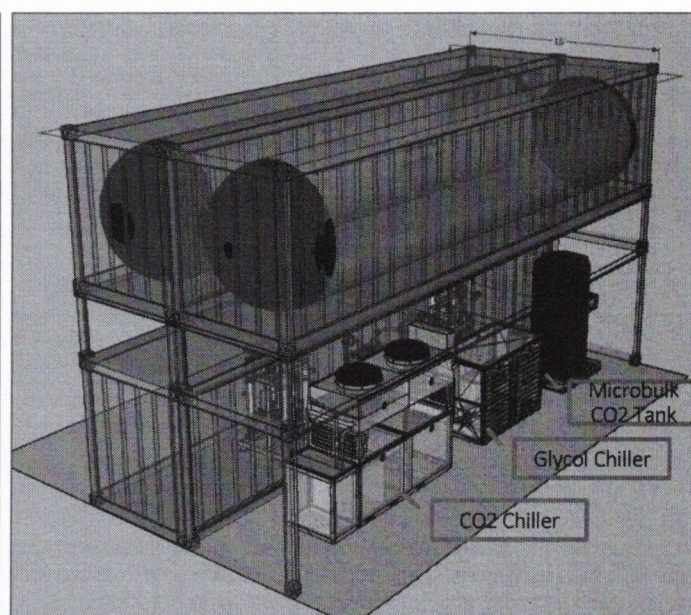
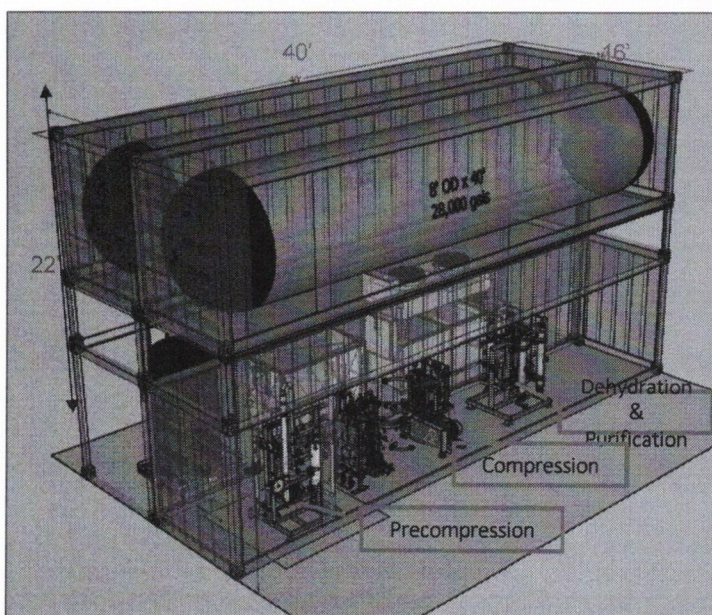


CiCi® (Elm) CO2 Capture Solution – Example Design

5 Modular Skids Fit Small Footprint



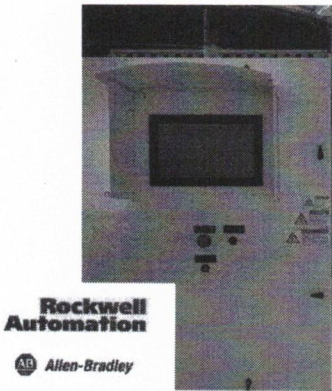
CiCi®(Elm) CO2 Capture – Example Containerized Design Indoor / Outdoor, Designed to Meet Customer Needs



Buffer Tank or Tanks optional
Can fit 1 or 2 container with ventilation
Designed and sized to meet on customer requirements

Earthly Labs Carbon Capture – Software (Elm)

PLC, HMI & Business Dashboard



Example Chart PLC in Field

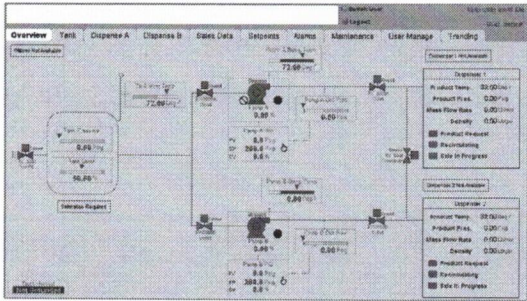
Rockwell Automation

Allen Bradley PLC

View Process

View Alarms

Emergency Shut-down



EMERSON

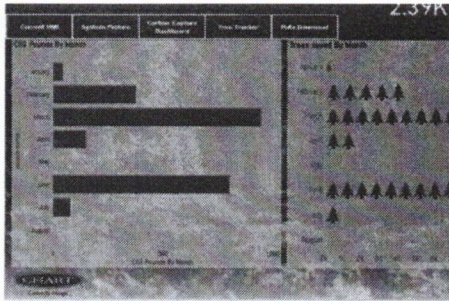
Emerson HMI

Running Ignition Edge SCADA

View Process, View Trends,

View Alarms, Control System,

Weekly Trends



Microsoft | Power BI

Remote Cloud Dashboard

Microsoft Power BI

Month, Yearly Trends

CO2 Capture Trends,

Environmental, Economic KPI,

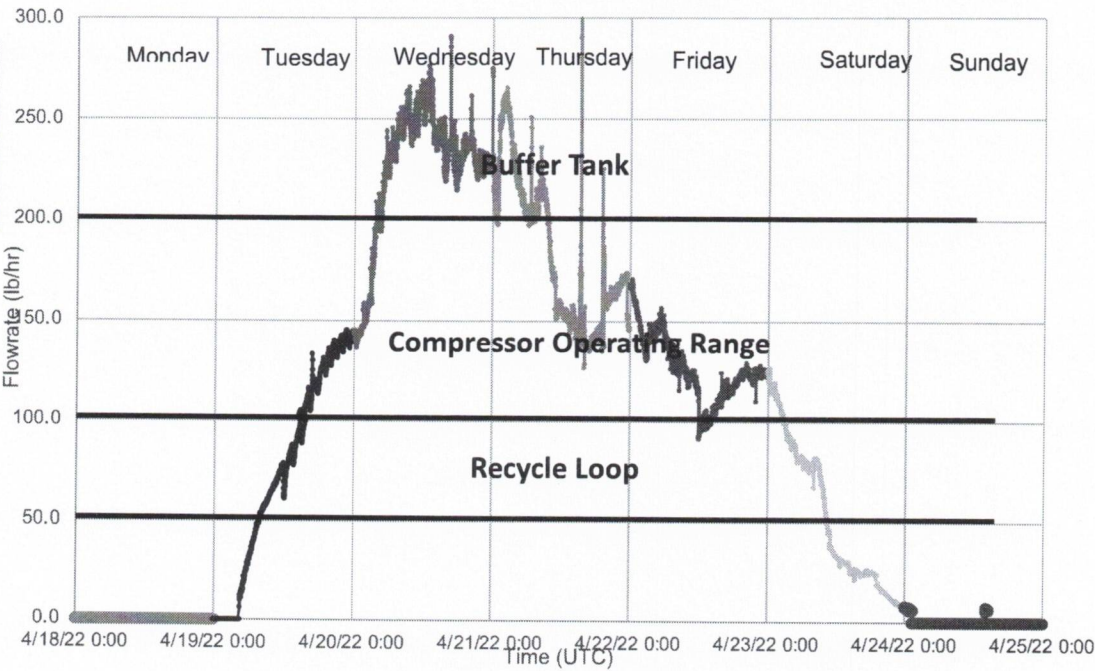
Reports, Downloads

CO2 Production by BBL / Volume

Example

Day	Beer	BBL
Monday	IPA	330
Tues	Pilsner	120
	DIPA	300
Wed	PIL	100
	BT	240
Thurs	IPA	120
	Stout	100

Day	Daily AVE (lb/hr)	Daily TOT (lb)
Mon	0	0
Tues	72.9	1750
Weds	237.2	5692
Thur	182.7	4385
Fri	126.5	3036
Sat	52.3	1254
Sun	0.4	11
Week	134.3	16128



Optional Phased Deployment

Immediate CO2 Capture Benefit, Build Max Capture

Phase One (Oak)

- Install CiCi - Model Oak
- Develop carbon capture competency, commitment
- Apply smaller fermentation tanks
- Identify ways to reduce total CO2 use



Phase Two (Elm)

- Cooperative Development
- Build CiCi Elm
- Meet CO2 Capture Goals
- Fund on Attainment of Key Milestones

Next Steps

- Feedback / Questions
- Your Timeline
- Decision Process
- Proposal
- Next Steps



Thank you

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The New York Times



X EARTHx

BREWBOUND
CRAFT BEER NEWS, EVENTS & JOBS