#### State of lowa **Energy Center Board** Meeting Minutes of August 10, 2023 at IEDA, 1963 Bell Avenue, Suite 200 Mississippi River Conference Room Des Moines, Iowa Or Via Teams Webinar

#### Call to order 1:05 p.m.

#### **Board Members Present**

Stuart Anderson, Board Chair Craig Just, Vice Chair Kelcev Brown Troy DeJoode\* Naomi DeWinter Debi Durham Erik Helland Anne Kımber Terry Kouba\*

Dan Nickey

Taaf Vermeulen

Matt Washburn\*

Lanny Zieman

#### Iowa Economic Development Authority Staff Present

Brian Selinger Amber Buckingham Stephanie Weisenbach

Lisa Connell Deanna Triplett

Jeff Geerts

Abbie Christophersen\*

Betty Hessing\* Michelle Cook

Vicky Clinkscales

Ryan Young

Rob Christensen

Staci Hupp Ballard

Terry Roberson\*

Kanan Kappelman\*

Shelly Peterson\*

Emily Hockins\*

#### Iowa Finance Authority Staff Present

Dave Powell\* Samantha Askland\* Tim Morlan\*

#### **Others Present**

JD Davis, Iowa Association of Business and Industry

Katie Larson, SSAB

Sean Keenan, SSAB

John Waldron, Shive-Hattery

Kevin Bruxvoort, Shive-Hattery

Tina Hoffman, MidAmerican

Joe Collins, Iowa Department of Education

David Huck, Canadian Pacific Kansas City

Dusky Terry, ITC Midwest

Ethan Hohenadel, Iowa Association of Electric Cooperatives

Steve Falck, Environmental Law and Policy Center

Nick Peterson, Alliant Energy

Cheri Monahan, ITC Midwest

Jim Reecy, Iowa State University

Linc Kroeger, Knight Moves

Emma Simmons, Iowa Department of Transportation

Lori Foresman-Kirpes, Polk County Conservation

Brenda Biddle, Iowa Utilities Board

Linda Thrasher, Greenfield Nitrogen

Natalie Merrill, Chevron Renewable Energy Group

Rachel Geilenfeld, Chevron Renewable Energy Group

Todd Cogdill, Iowa Department of Transportation

Steve Lukan, Black Hills Energy

Craig Erickson, Shive-Hattery

Jeremy Caron, City of Des Moines

Joe Liviero, Winnebago Industries

Russ Gibson, Seneca Companies

Jason Cortes, Tritium Technologies

Lillie Brady, Iowa Governor's Office

Adam Schwartz, Kwik Trip/Star

Holly Schnur, Verbio

Rich Iverson, City of Ames

Chaz Allen, Iowa Utility Association

Grea Northrup, Verbio

Chad Reece, Winnebago Industries

Kevin Kuhle, Iowa Farm Bureau Federation\*

Bob Bird, Iowa Senate Republican Caucus\*

Matt Gronewald, Iowa Farm Bureau Federation\*

Evan Johnson, Legislative Services Agency\*

Tamara Nicholson, Iowa Department of Transportation\*

Natalie, Guest\*

Shelby Ebel, Iowa Department of Transportation\*

Jacob Maas, Kum and Go\*

Mike Bahr, Turner Construction Company\*

Jace Mikels, Iowa Senate Democratic Caucus\*

#### Welcome & Introductions by Board Chair Stuart Anderson

Stuart Anderson welcomed everyone to the August 10th IEC Board meeting

<sup>\*</sup>Participated via Teams

#### Roll Call

Michelle Cook did roll call and a quorum was established.

#### Consideration of June 6, 2023 IEC Board Meeting Minutes

Motion by Debi Durham

Motion I move approval of the June 6, 2023 minutes as presented

Second Craig Just

Voice Vote All ayes in favor Motion approved

#### Fiscal Update - Attachment A

Terry Roberson explained there are about three weeks left and then we will put a wrap on State FY23 Both the Energy Center Grant Program and the Infrastructure Loan Program will have sufficient funds carried forward into State FY24 to carry out their responsibilities and tasks during the new fiscal year Terry Roberson stated he would be happy to answer any questions, but no questions were asked

#### **Competitive Grant Program Update**

Amber Buckingham gave an update on the competitive grant program and the current funding cycle. There were 34 pre-applications this round. The Grant Committee met to review the pre-applications and selected 11 to complete a full application. Because the Grant Committee currently only has two members, funding decisions on those full applications have been delayed until we have a fuller Committee. Hopefully after today we will have a four-person Committee and can resume review of those full applications. If that happens, we will do our funding decisions at the October 3rd special meeting that Brian has previously emailed you about

#### Loan Termination, Sievers Family Farm LLC 21-AEL-001 – Attachment B

Stephanie Weisenbach gave an update on the Alternate Energy Revolving Loan Program that was inherited when IEDA assumed responsibilities for the Energy Center IEDA received a request to terminate Sievers Family Farm loan agreement. This was awarded in 2021 and the borrower recipient has requested to terminate the loan agreement due to other priorities on their farm related to energy. They've made that request and according to our procedures, it is the responsibility of the Board to decide on that termination for IEDA to complete in that legal process.

Motion by Debi Durham

Motion I move to approve IEDA Execution of a Termination

Agreement with Sievers Family Farms, LLC

Second Dan Nickey

Roll Call Yes 13 Abstain 0

Motion approved

## Energy Infrastructure Revolving Loan Program Loan Application Request – City of Kimballton – Attachment C

Stephanie Weisenbach shared there is a quarterly cycle for the Energy Infrastructure Revolving Loan Program Each quarter, IEDA and Iowa Finance

Authority staff review applications The one application received this quarter was from the City of Kimballton They are eligible under the program

They seek to complete improvements to its substation and distribution system, including underground lines and enabling the ability to monitor and control the load on the system. The total project cost is \$3,072,500. The applicant is requesting almost \$2.3 million for a 15-year loan term. The applicant did not demonstrate the ability to repay the loan. We would recommend and plan on suggesting other funding options and resources to assist them with their goals for infrastructure.

Stephanie Weisenbach stated the recommendation from the Loan Committee is to deny this application Brian Selinger expressed appreciation to Stephanie and the team working to find other options for the City

Motion by Craig Just

Motion I move to deny the application

Second Lanny Zieman

Roll Call Yes 12 Abstain 1 (DeJoode)

Motion approved

#### Appointment to Committees – Attachment D

Lisa Connell shared appointments to the Grant Committee and Loan Committee There are currently two members on the Grant Committee due to changing of membership of the board There is a vacancy on the Loan Committee The term would start today and go through April of next year

#### **Appointments to Grant Committee**

Motion by Dan Nickey

Motion I move to appoint Anne Kimber and Taaf Vermeulen to a

four-person Grant Committee for a term from August 10,

2023 to April 30, 2024

Second Stuart Anderson

Voice Vote All ayes in favor Motion approved

#### Appointments to Loan Committee

Motion by Erik Helland

Motion I move to appoint Lanny Zieman to a five-person Loan

Committee for a term from August 10, 2023 to April 30.

2024

Second Debi Durham

Roll Call All ayes in favor Motion approved

#### **CPKC Hydrogen Locomotive Program – Attachment E**

David Huck with Canadian Pacific Kansas City, made a presentation on CPKC Hydrogen Locomotive Program

#### Biodiesel in Iowa - Attachment F

Natalie Merrill with Chevron Renewable Energy Group, made a presentation on Biodiesel in Iowa

#### **Destination Net Zero – Attachment G**

Kelcey Brown with MidAmerican Energy, made a presentation on Destination Net Zero

#### Zero-CO2 Emissions Steel - Attachment H

Katie Larson with SSAB, made a presentation on Zero-CO2 Emissions Steel

#### Advancing Renewables - Attachment I

Greg Northrup with Verbio, made a presentation on Advancing Renewables

#### e-RV2 Overview - Attachment J

Chad Reece with Winnebago Industries, made a presentation on e-RV2 Overview

## Update on Iowa's Implementation of the National Electric Vehicle Infrastructure Program – Attachment K

Stuart Anderson with Iowa Department of Transportation, made a presentation on Update on Iowa's Implementation of the National Electric Vehicle Infrastructure Program

#### **Other Business**

Stuart Anderson turned it over to Brian Selinger to give Energy Office updates

#### **Energy Center Office Updates**

Brian Selinger expressed appreciation to colleagues, Board, presenters and guests IEDA has a new website for the two residential energy efficiency and electrification programs, rebate programs <a href="https://www.iowaeda.com/iowa-residential-energy-efficiency-programs/?preview=yes">https://www.iowaeda.com/iowa-residential-energy-efficiency-programs/?preview=yes</a>

There is significant funding coming to the State Energy Office/IEDA, \$120 million Federal guidance was just released. Update information will be posted on the web page. Individuals can sign up for information and updates. These programs are going to be complicated and complex. We want to do this thoughtfully and in a managed way. Rebates will not be showing until 2024.

October 3<sup>rd</sup> is a special board meeting. The meeting is expected to primarily be a virtual meeting to approve grants now that we have a full team on board to review those full applications. The next quarterly meeting will be November 16<sup>th</sup>

Public Comment Period No public comments

Chairperson Anderson adjourned the meeting

Adjournment 3 03 p m

Respectfully Submitted, Michelle Cook, IEC Board Administrator

# ATTACHMENT A

INFO

## REPORT IOWA ENERGY CENTER BOARD AUGUST 2023

From:

IEDA Administration

Subject:

Financial Information SFY23

Attached is the financial information for the IEC programs thru 7-31-23

Proposed Motion:

No Action Required

Submitted By:

Terry Roberson

Attachments:

Financial Reports

IEDA		1	
Financial Report	1		
Iowa Energy Center			
Fiscal Year 2023			
July 31, 2023			
	IE	EC MAIN ACCT	
	- I	T	
			Total
	Admin	Projects	Fund
Revenue			
Cash Balance Forward	275,000	18,561,590	18,836,590
FY21 JUB Transfer	275,000	18,501,550	16,630,330
Principal Repayments YTD	0	0	
Interest Revenue	0	467,002	467,002
Other Revenue YTD	0	0	707,002
Deappropriations	0	0	0
Transfers	0	0	0
Total Revenue YTD	275,000	19,028,592	19,303,592
Expenses	1	1	
Administration YTD	(140,695)	0	(140,695)
Project Payouts YTD	0	(2,137,560)	(2,137,560)
Leg Auth Transfers		(2)40172-07	0
(18 Acts Ch 1172 Sec 91)			
Total Expense YTD	(140,695)	(2,137,560)	(2,278,255)
	1	1	
Obligations Of S	0	6.246.261	6,346,261
Obligations C/F	0	6,346,261	
Current Year Obligations Current Year Rescissions		1,051,872	1,051,872
	0		(141,122)
Current Year Payouts		(2,137,560)	(2,137,560)
Balance of Current Year Admin	134,305	0	134,305
Net Obligations YTD	134,305	5,119,451	5,253,756
Balance Available	0	11,771,581	11,771,581

IEDA				
Financial Report				
Iowa Energy Center				
Fiscal Year 2023				
July 31, 2023				
33,727,232	ENERGY INFRASTRUCT	URE REVOLVI	NG LOAN PROGI	RAM
			Total	
	Admin	Projects	Fund	
Revenue				
Cash Balance Forward	250,000	14,157,520	14,407,520	
FY21 IUB Transfer	0	0	0	
Principal Repayments YTD	0	6,001	6,001	
Interest Revenue	0	377,786	377,786	
Other Revenue YTD	0	0	0	
Deappropriations	0	0	0	
Transfers	0	1,174,000	1,174,000	
Total Revenue YTD	250,000	15,715,307	15,965,307	
	1	1		
<u>Expenses</u>			(00 450)	
Administration YTD	(29,452)	0	(29,452)	
Project Payouts YTD	0	(397,150)	(397,150)	
Leg Auth Transfers			0	
(18 Acts Ch 1172 Sec 91)				
Total Expense YTD	(29,452)	(397,150)	(426,602)	
	1	1		
Obligations C/S		236,250	226.250	
Obligations C/F	0		236,250	
Current Year Obligations	0	3,753,900	3,753,900 0	
Current Year Rescissions		(207.150)		
Current Year Payouts	270 548	(397,150)	(397,150)	
Balance of Current Year Admin	220,548	0	220,548	
National Action	220,548	3,593,000	2 012 E49	
Net Obligations YTD	220,548	2,283,000	3,813,548	
Rolenge Averdable	0	11,725,157	11,725,157	
Balance Available		11,/25,15/	11,/23,13/	

IEDA					
Financial Report					
Iowa Energy Center					
Fiscal Year 2023				1	
July 31, 2023		OLD		-	
July 31, 2023					
	JEC .	/AEL LOAN AC	<u>.C.l</u>		
			Total		
	L	D		J J	007 4 3047
		Projects	Fund	IEDA NOTES REC	OCT 1 2017 NOTES REC
Revenue				NOTES NEC	NOTES REC
Cash Balance Forward	0	1,174,610	1,174,610	1,044,667	718,354
FY21 IUB Transfer	0	0	0		0
Principal Repayments YTD	0	479,925	479,925	(196,286)	(283,639)
Interest Revenue	0 ,	26,123	26,123		0
Other Revenue YTD	0	0	0		0
Deappropriations	0		0	•	0
Transfers	0	(1,174,000)	(1,174,000)	-	0
Total Revenue YTD	0	506,658	506,658	848,381	434,715
Expenses				47 6	
Administration YTD	0	0	0		
Project Payouts YTD	0	0	0		
Leg Auth Transfers			0		
(18 Acts Ch 1172 Sec 91)					1 T
Total Expense YTD	0	0	0		
Obligations					
Obligations C/F	0	348,810	348,810		
Current Year Obligations	0	0	0		
Current Year Rescissions		0	0		
Current Year Payouts	0	0	0	(j. j.) <sup>(</sup> (j.)	
Balance of Current Year Admin	0	0	0		
Net Obligations YTD	0	348,810	348,810		
	,				
Balance Available	0	157,848	157,848	Principle in the second	

#### lowa Energy Center Grant Program Obligation Log FY2020

		Amount	Amount	
	Project Name	Awarded	Recaptured	Balance
Aug-22	Iowa State University	347,530		347,530
Aug-22	Iowa State University	203,342		203,342
	Iowa State University	200,000		200,000
Aug-22	Legov Systems Group	301,000		301,000
				0
				0
				0
				0
				0
				0
				0
				0
				0
				0
				0
				0
				0
				0
				0
				0
				0
				0
				o
				0
				0
l				0
				0
				0
				0
				0
				0
				0
				0
				}
		]		0
				0
				l ő
				0
				0
				0
		1,051,872	0	1,051,872

FY23 FSR IEC GrantsFY23

#### lowa Energy Center Loan Program Obligation Log FY2023

	Amount	Amount	
Project Name	Awarded	Recaptured	Balance
Aug-22 Accu Steel	160,900		160,900
Feb-23 City of Hawarden	2,500,000		2,500,000
Feb-23 Red Lion Albia Schools Solar	186,000		186,000
Feb-23 Red Lion Dallas Center Schools Solar	323,000		323,000
Feb-23 Red Lion Wapello Schools Solar	584,000		584,000
			0
	(		0
			0
			0 0
	}		0
			0
			0
			0
			0
			0
			0
		ł	0
			0
			0
	1		0
			0
			0
			0
			0
			0
			0
	1		0
1		}	0
	]		0
}	}	1	0
		İ	0
	į		0
1			0
	1		o
	1		0
	,		O
			0
}			0
			0
1		1	0
	Ì	Į	0
			0
	3,753,900	0	3,753,900

FY23 FSR IEC LoansFY23

## ATTACHMENT B

**ACTION** 

## REPORT IOWA ENERGY CENTER BOARD AUGUST 2023

From:

Iowa Energy Center

Subject:

Sievers Family Farms, LLC – Request for Termination

Agreement Number:

21-AEL-001

Project Type:

155 kW solar project

Award Date:

May 13, 2021

Loan Amount:

\$149,200

Loan Term:

48 months

Agreement Executed Date:

August 3, 2021

Sievers Family Farms requests to terminate the loan agreement with IEDA and the Iowa Energy Center due to competing priorities.

Proposed

Approve IEDA Execution of a Termination Agreement with

Motion:

Sievers Family Farms, LLC

Submitted By:

Stephanie Weisenbach

Attachments:

Email from Brian Sievers

#### **ATTACHMENT**

From Bryan Sievers <bryan sievers@gmail.com> Sent Friday, June 16, 2023 8 03 AM To. Stephanie Weisenbach < Stephanie Weisenbach@iowaeda.com> Cc Lisa G Sievers <sievers lisa@gmail.com>, Brian Selinger <Brian Selinger@iowaeda.com> Subject Re AERLP Loan

#### Stephanie,

Lisa and I have wanted to move forward with this opportunity. However, it just doesn't seem to be working out for us With the changing nature of the solar industry and it's battle over tariffs, inflation, the new incentives available under the inflation Reduction Act, and our ongoing expansion of our anaerobic digester facility, the solar project never seems to be able to climb into the top tier of our priorities

We are requesting that the IEDA terminate the loan agreement. If you have any additional questions, please don't hesitate to contact us

Sincerely,

Director, Horizon II Partnership for Climate-Smart Commodities Grant Program Director, Government Relations for Roeslein Alternative Energy Chief Operating Officer, AgriReNew, Glenora Feed Yard, and Sievers Family Farms Vice Chair of the American Biogas Council Board of Directors Co-Chair of Iowa Smart Agriculture 26618 20th Avenue Stockton, IA 52769

Email bryan sievers@gmail com bsievers@roesleinae.com

Facebook https://www.facebook.com/AgriReNew/

Phone 563-340-6541 (Cell)

## **IOWA ENERGY CENTER LOANS**

#### PROJECT REPORT



Applicant:

City of Kimballton

Loan Request

\$2,296,000 for a 15-year term

Recommendation Deny

**Board Decision** August 10, 2023

## ATTACHMENT C

### Summary

The city of Kimballton, a municipal electric utility, seeks to complete improvements to its substation and distribution system, including undergrounding lines and enabling the ability to monitor and control the load on the system The total project cost is \$3,072,500 The applicant's financial documentation did not demonstrate sufficient resources for providing match, making the monthly payments on the loan, or having adequate revenue to pledge as collateral IEDA staff will suggest other funding options and resources for the city to consider that could help them with their infrastructure project

#### **Funding Sources**

Source	Form	Amount
City	Cash	\$776,500

## **Program Purpose and Eligibility**

The Energy Infrastructure Revolving Loan Program (EIRLP) requires projects to fulfill at least one of the program purposes in lowa code. This project most aligns with purposes of the electric distribution and electric arid modernization

The program also requires projects to fulfill at least one of three evaluation criteria. The project fulfills the criteria below, which is required for loans over \$1 million

Broad-reaching benefits to the state, local community and/or utility ratepayers. This project will address the most critical electrical equipment in the City of Kimballton. It will prevent failure of equipment which would negatively affect the residents. It would also provide distribution infrastructure compatible with future electric vehicle charging or distributed generation

#### Collateral

Utility revenues are the pledged security for the loan Municipalities have limited security available for debt service based on Iowa Code

## **Project Timeline**

Award Decision Date **Estimated Completion**  August 10, 2023 September 2025

## ATTACHMENT D

REPORT IOWA ENERGY CENTER BOARD August 2023

**ACTION** 

From: IEDA Legal

Subject: Appointments to Committees

#### 1. Appointments to Grant Committee

261 *IAC* 403 3(6)(a)(1) provides that, each year, the Board determines the size of the Grant Committee and appoints members to the committee.

#### **Proposed Motion:**

Appoint Anne Kimber and Taaf Vermeulen to a four-person Grant Committee for a term from August 10, 2023 to April 30, 2024.

#### 2. Appointments to Loan Committee

261 IAC 403.3(6)(b)(1) provides that, each year, the Board determines the size of the Loan Committee and appoints members to the committee.

#### **Proposed Motion:**

Appoint Lanny Zieman to a five-person Loan Committee for a term from August 10, 2023 to April 30, 2024.

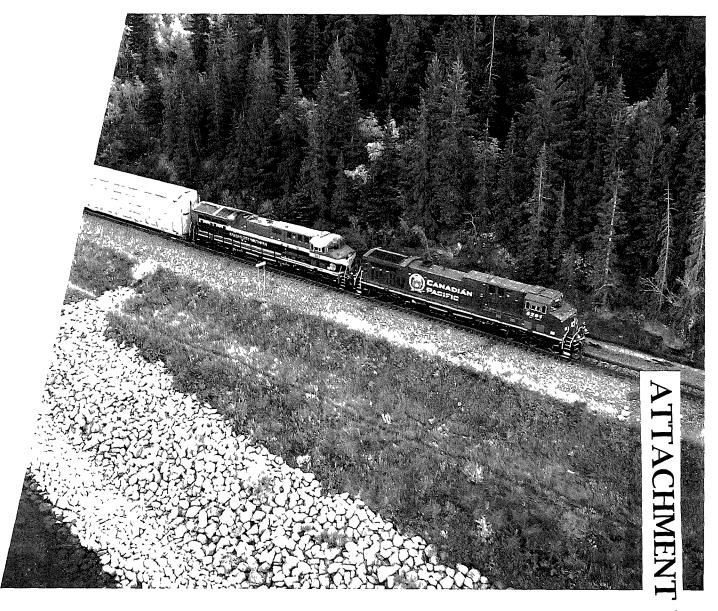
Submitted By: Lisa Connell, Legal Counsel



# HYDROGEN LOCOMOTIVE PROGRAM

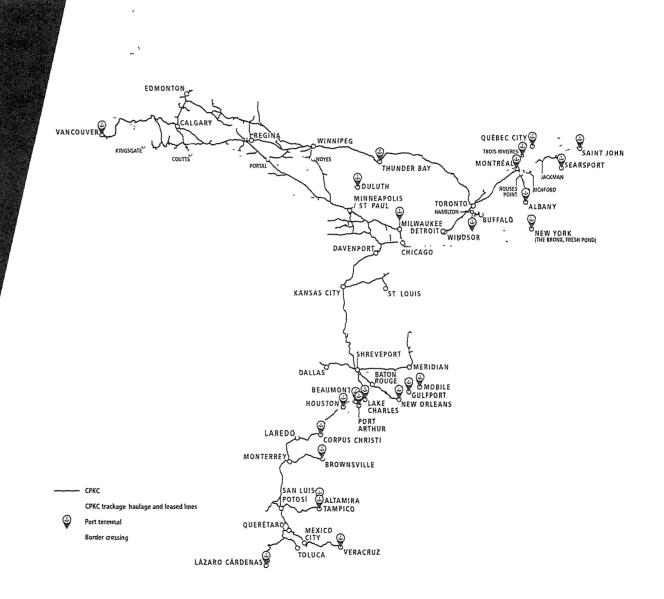
**lowa Energy Center Board Meeting** 

Aug 10, 2023 Des Moines, Iowa



# CONNECTING A CONTINENT

Transforming the future of freight rail by creating the safest, most reliable and relevant railroad in North America, serving as the backbone for commerce and economic growth.



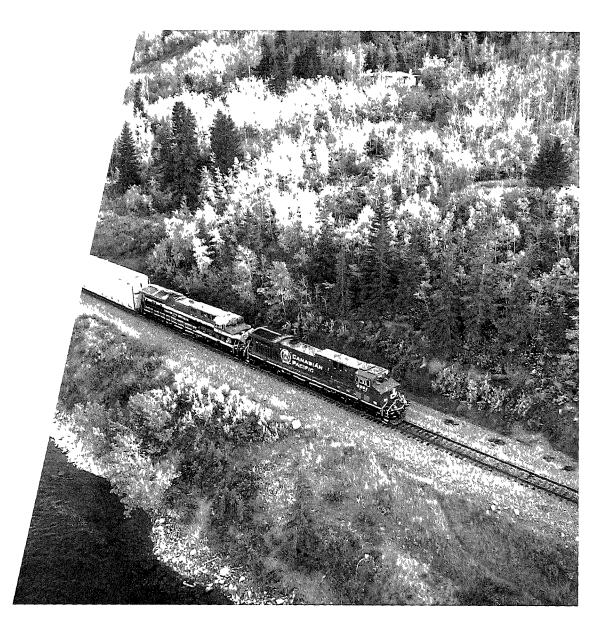
# SUSTAINABLY DRIVEN

### Approach to sustainability

Operating sustainably is imperative to CPKC's future growth and long-term success in connecting vital markets to the North American and global economies

As we merge organizations, we remain sustainably driven and focused on delivering value to all our stakeholders

CPKC is focused on integrating our related sustainability principles and practices into our business as we move forward to move goods and commodities that society relies on



## COMMITTED TO THE LONG HAUL

Conduct our operations in a manner that is sustainably driven and that aims to minimize adverse impacts on the environment and the communities in which we operate.



Committed to being a responsible corporate citizen and a meaningful contributor to society



Strong corporate governance practices are essential to effective management, the protection of our organization and to earning the trust of our stakeholders.

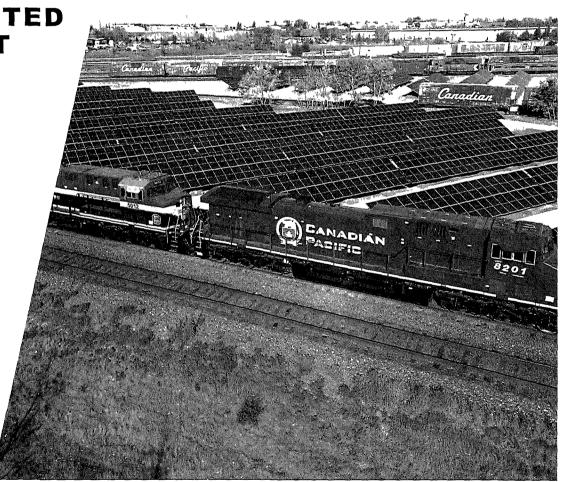


PARTICIPATION IN THE UNITED NATIONS GLOBAL COMPACT

In 2022, CP became the first freight rail company in North America to participate in the UNGC, a voluntary initiative encouraging businesses around the world to adopt responsible business practices

CPKC remains committed to participation in the UNGC and upholding and annually reporting progress on 10 Principles in the areas of human rights, environment, labour and anti-corruption, and to acting on the United Nations Sustainable Development Goals





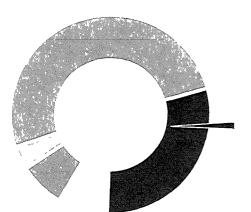
## CLIMATE BENEFITS OF SHIPPING FREIGHT BY RAIL

Transportation by rail is one of the most economical and environmentally responsible methods of moving freight

The transportation sector was responsible for about 28% of North America's (NA's) annual GHG emissions, with the rail industry contributing only 0 6% of the region's total annual GHG emissions (1)

North America GHG emissions by industrial sector (1,2,3)

% of North America greenhouse gas (GHG) emissions



- Energy (except transportation) 53.4%
- Transportation 27.5%
- ⇒ Agriculture 9.8%
- Industrial processes 6.3%
- Waste 3.1%

Rail Transportation 0.6%

RAIL VS. TRUCKING<sup>(4)</sup>





<sup>(1)</sup> Environment and Climate Change Canada (2023) National Inventory Report 1990 – 2021 Greenhouse Gas Sources and Sinks in Canada Retrieved from <a href="https://publications.gc.ca/collections/collection\_2023/eccc/En81-4-2021-1-enq.pdf">https://publications.gc.ca/collections/collection\_2023/eccc/En81-4-2021-1-enq.pdf</a>

<sup>(2)</sup> EPA (2023) Inventory of U.S. Greenhouse Gas Emissions and Sinks 1990-2021 U.S. Environmental Protection Agency, EPA 430-R-23-002 https://www.epa.gov/qhgemissions/inventory-us-greenhouse-gas-emissions-and-sinks-1990-2021

<sup>(3)</sup> INCC (2018) Inventario Nacional de Emisiones de Gases y Compuestos de Efecto Invernadero (1990-2015) Retrieved from Mexico-NC6-BUR2-1-NIR INEGYCEI 1990 a 2015 A 0 pdf (unfocc int)

<sup>(4)</sup> Association of American Railroads (2020) The Positive Environmental Effects of Increased Freight by Rail Movements in America Retneved from https://www.aar.org/wp-content/uploads/2020/06/AAR-Positive-Environmental-Effects-of-Freight-Rail-White-Paper

## **BIG MOVES. LOWER EMISSIONS**

v = | U =

#### **Carbon Emissions Calculator**

#### Carbon Emissions Calculator

Explore how shipping treight with CPKC could reduce greenhouse gas emissions vitrim your supply chain

Use this tool to calculate the estimated GHG emissions" of snipping your freight by rail with CPKC As this tool uses data from only CPKC's rail net rock it may not be illustrative of your petential emissions on other rail networks including interchanges to or from other North American rail networks). For improved results, consider using origin and destination locations on CPKC's rail network

#### Commodity

Total Load

Chemicals >

Number of Trucks. OR U.S. Tons 521

Frequency nri ide empty reti res # Ionthly ndude drayage mucking

Q Adjanced Coupns Origin Destination

Calgary AB CAN Kansas USA Prop a Pro **ў** Этэра Еп

Calculate Carlien Emissions

Well-to-Wheels<sup>3</sup> GHG Emissions Details Analysis

#### Rail + Drayage Shipment

Tank-To-Wheeis Emissions Metric Tons COpe / Year

Locompti e Scope 5, 2 Emituanu 151 Dralage Tuck Scope 112 Em allons 130

Well-To-Tank Emissions Metric Tons CO2e / Year

53 Lacomoti e Scope 3 Em sugris Drailage Scope 3 Emissions 39

413 Total Well-To-Wheels Rail + Drayage CO2e Emissions

#### Long-Haul Trucking Shipment

Tank-To-Wheels Emissions Metric Tons CO2e / Year

Long-Haul Truck Scope ( & 2 Em utions) 591

Well-to-Tank Emissions Metric Tons CO2e / Year

Long-hauf Truck Scope 3 Emily only

Total Well-to-Wheels Truck CO2e Emissions 769

#### The Results.

E CPKC 3x4 Hetti Turi of CHG cm mions haved Truck

GHG Emissions

#### We Have Good News!

Shipping your freight with CPKC has the potential to reduce carbon emissions by

over long-haul trucking alternatives

渝\$137K

A 402

₹ 324



#### The Results.

Truck

E CPAC 356 M tric "Un of GHG Ut I un Saved GHG Emissions 413 Metric Torra

769 Metric Tons

#### We Have Good News!

Shipping your freight with CPKC has the potential to reduce carbon emissions by

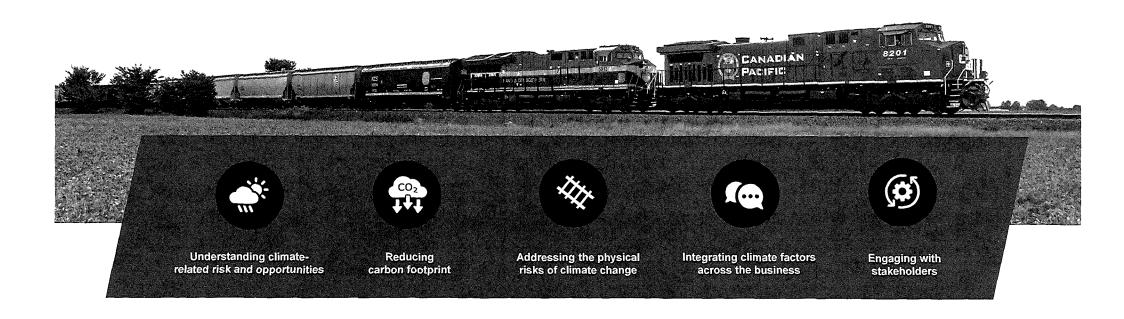
over long-haul trucking alternatives

**A** 1

**497%** Les employee mur **→**1% Of Unitra particles related hazardnash particular months to the thirty of the thirty o

https://www.cpkcr.com/en/sustainability/cpkc-carbon-calculator

## **CLIMATE COMMITMENTS**



## **SCIENCE-BASED EMISSIONS REDUCTION TARGETS**

#### Reducing our carbon footprint

CPKC has joined the Science Based Targets initiative's (SBTi) Business Ambition for 1 5°C global campaign and is committed to developing a CPKC emissions reduction target aligned with a 1 5°C future within the next two years

Consolidated Target CPKC will reduce our well-to-wheel (WTW) locomotive emissions by 36 9% per gross ton-mile by 2030 from a 2020 base year





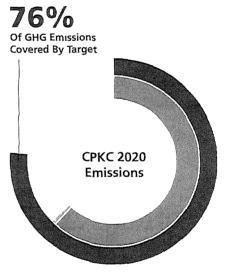
Historical GHG Emissions Reduction Targets



CP will reduce our well-to-wheel GHG emissions intensity (grams per revenue ton-mile) from locomotive operations by 38 3% by 2030



KCS commits to reduce scope 1 and 2 GHG emissions by 42% per million gross ton-miles by 2034 from a 2019 base year **CPKC Emissions Reduction Target** 



Scope 1	629	
Scope 2 - Electricity     ■ Comparison	1%	
Scope 3 - Value Chain	37%	

## THE PATH FORWARD

opportunities impacting our business



etc ), including to encompass the legacy KCS operations

# HYDROGEN LOCOMOTIVE PROGRAM

CPKC's Hydrogen Locomotive Program aims to develop North America's first line-haul hydrogen-powered freight locomotive.

CPKC has initiated a program to convert three different types of dieselelectric locomotives into zero-emissions hydrogen-powered locomotives using fuel cells and batteries to power electric traction motors. The program has the potential to significantly reduce greenhouse gas emissions from locomotive operations, supporting CPKC's Climate Change Commitments and the transition to a low-carbon future in the freight rail sector.





## LOW CARBON CONCEPTS

#### Why hydrogen hybrid design?

- Zero emissions
- Similar refueling times to diesel possible + DTL fueling
- Locomotive can operate independently and recharge its own batteries

   no wayside charger, genset or diesel-electric consist or fixed
   recharge location required
- Hydrogen energy density higher than batteries
- Batteries can recapture energy from dynamic braking saving hydrogen and extending range

	Battery- Electric	Battery- Hydrogen
Recharge/Refuel vs Diesel	14+ hours	No change
Recharge/Refuel Options	Fixed-point	Fixed-point or direct to locomotive
Range vs Diesel	Up to 8%	Up to 30%



- Available from Tier 1 passenger suppliers
- Hydrogen fuel cells and batteries
- Duty cycle different from freight service
- Commercialization in process Europe, Asia and North America



- Both Tier 1 locomotive suppliers are working on 100% BEL
- Wabtec 2 4 MWh road demonstrator up to 7 MWh
- Progress Rail Up to 14 5 MWh in various applications

## **CPKC HYDROGEN LOCOMOTIVE PROGRAM**

### Locomotive fueling options

## **On-Site Delivery**

- · Delivered from trailer direct to locomotive
- · On-Site liquid or gaseous storage and dispensing

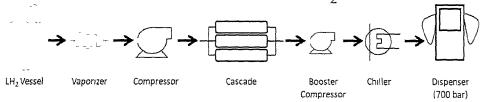
## On-Site Storage/Production

- Electrolyzer or steam-methane reformer
- Continuous supply from solar power, natural gas or electrical grid

Options provide flexibility to fuel the locomotive without requiring fixed point charging locations essentially enabling the same operating conditions we have today



Direct to locomotive from H2 trailer



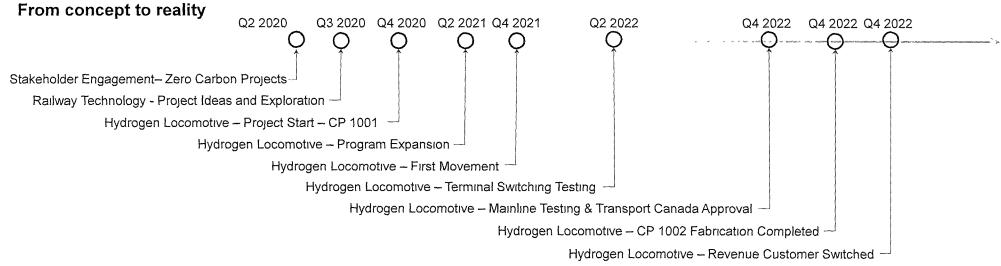
## Liquified or gaseous H<sub>2</sub> storage to dispensing

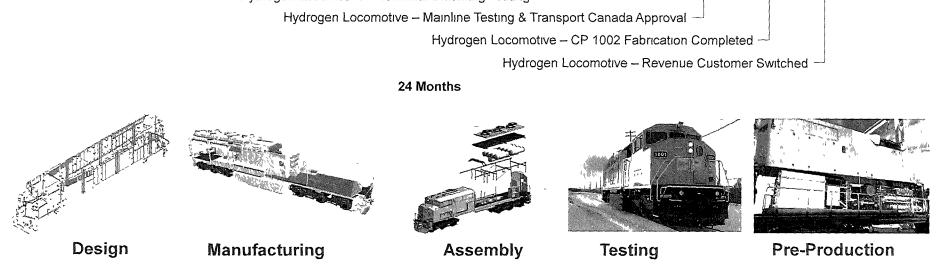




Green H<sub>2</sub> from on-site solar capability and an electrolyzer

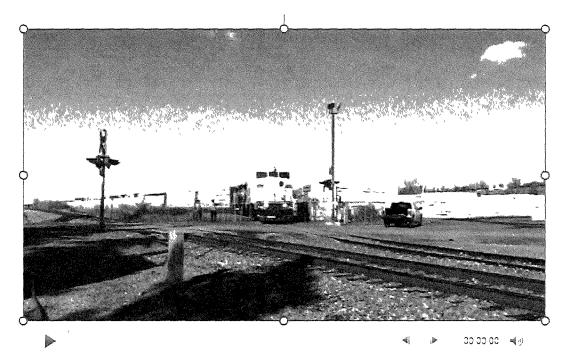
## **CPKC HYDROGEN LOCOMOTIVE PROGRAM**





## PHASE 1 - FIRST ZERO EMISSIONS CUSTOMER LIFT

Hydrogen DC demonstrator



## PHASE 1 - MAINLINE EXTENDED LOAD TESTING

### **Testing summary**

- ✓ Over 850 zero emission mainline miles achieved across 9 mainline tests
- ✓ Weekly testing in trains carrying over 20,000 tons shoving at 2350 HP
- ✓ Operation up to 50 MPH on mainline
- ✓ Revenue customer switched from North Calgary to Alyth
- ✓ Operation in extreme cold
- ✓ Draft against air brakes, "kicking" cars





## PHASE 2 - EXPANDED PROGRAM SCOPE

#### Additional models



Fabrication complete field trials Jan 2022



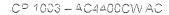
Government Gouvernement of Canada du Canada

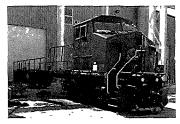
Low Carbon Economy Fund

Expanded program funding 2021



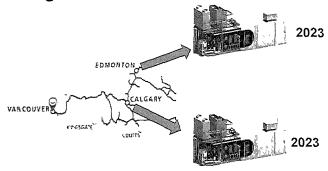
Fabrication complete first movement Mar 2023

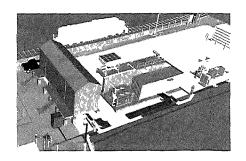


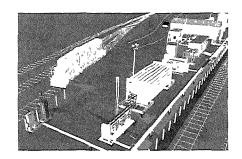


Fabrication in-progress

## Fueling facilities







Construction in-progress

# PARTNERING FOR AN INDUSTRY SOLUTION

Industry and stakeholder engagement

CPKC to partner with U.S. railway CSX on hydrogen locomotives

CSX will convert one of its diesel locomotives using a hydrogen conversion kit developed by CPKC

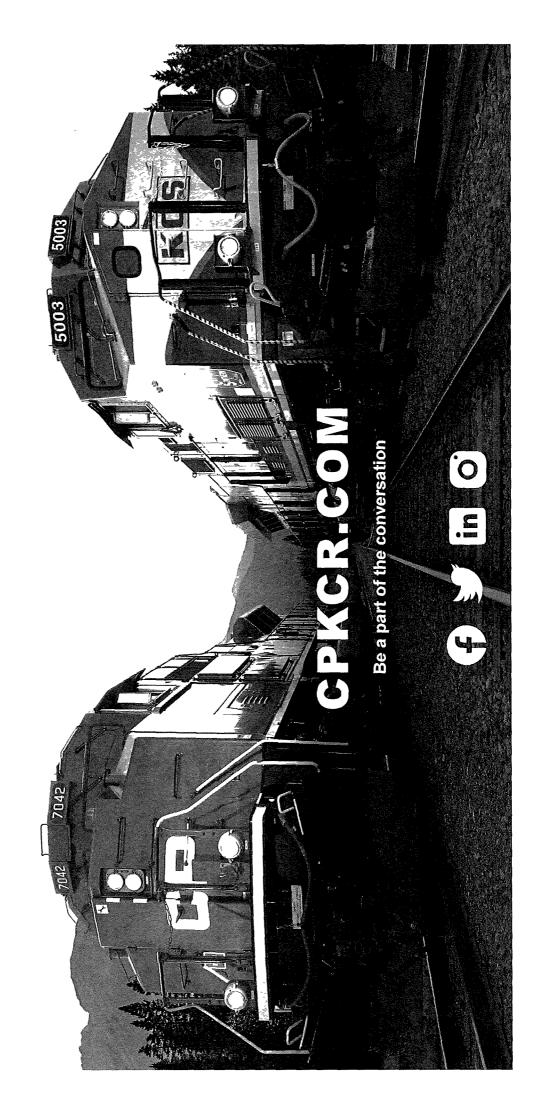
Financial Post Jun 22, 2023

CPKC, Teck Resources pilot program to us hydrogen locomotives in coal train service

Trains com May 2, 2023







ATTACHMENT F

the chevron human energy company\*

bio-based fuels in iowa

Natalie Merrill

senior vp, business development & strategy



about chevron renewable energy group

### a business unit with a strong purpose

fueling the energy transition by delivering lower carbon fuels today and innovating for tomorrow.



Renewable Energy Group



## toward a lower carbon future energy group are working chevron and renewable

energy group gets chevron one-third of the way toward that goal acquisition of renewable

we have a goal

to have the

energy is lower carbon

we believe the future of

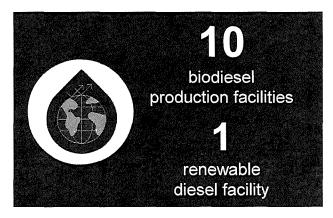
barrels/day of fuels by 2030 capacity to renewable produce 100,000





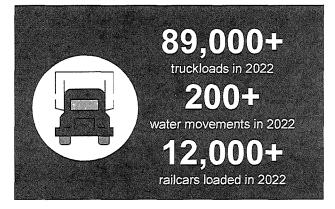
### our story told in numbers

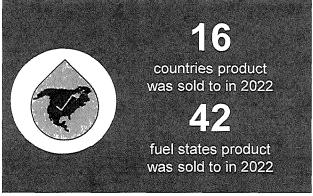








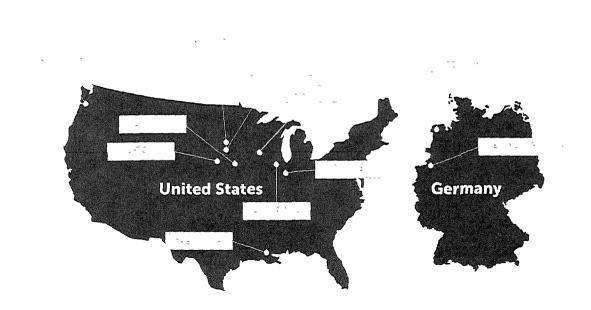




All metrics represent global business unless noted



### our energy footprint



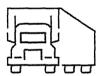


millions of gallons sold in 2022

395	biodiesel
158	renewable diesel
179	petroleum diesel + other petroleum products
732	total fuel sold

### industries we serve

Our renewable fuel products and solutions serve a variety of industries offering high quality bio-based diesel that can help reduce carbon emissions now, without compromising performance or requiring substantial investment.



Fleets: on-road (carriers, shippers, private fleets) and municipalities



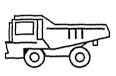
Mining



Marine



Rail



Construction



Heating Oil



Retail



Chemicals



Power Generators



Agriculture



Emergency Services



Institutional Bus



**Data Centers** 





### helping iowa customers reach lower carbon targets

























Diamond Oil Co.

**USgypsum** 



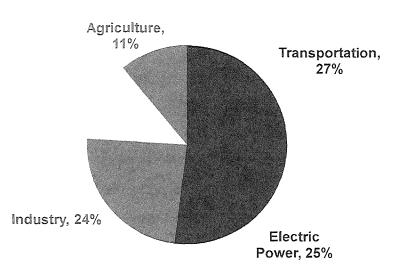
### bio-based diesel overview





### transportation is a major emitter of greenhouse gas emissions

total u.s. greenhouse gas emissions by economic sector in 2020

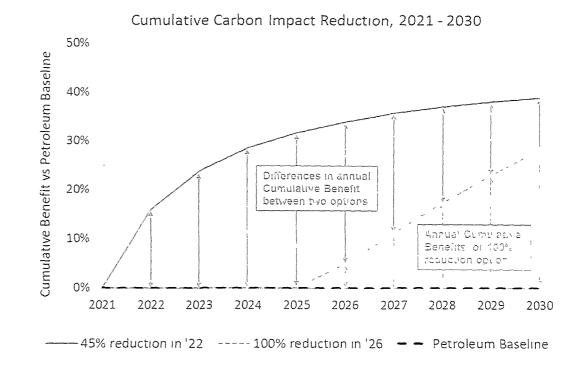




### cumulative carbon impact accounting

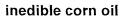
### cumulative benefit comparison example

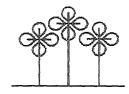
## Takeaways Carbon impact occurs every year, not just the emission year Cumulative benefit can be estimated for each year



### we have a robust portfolio of feedstocks





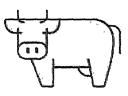


canola oil

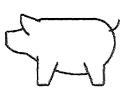


soybean oil

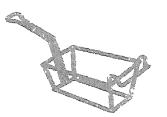
poultry fat



beef tallow



pork lard



used cooking oil

### cover crops

seed



cultivation



harvesting



processing



lipid feedstock

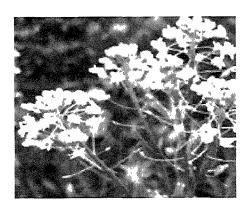










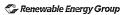














### benefits of bio-based diesel fuels

### renewable diesel - paraffinic fuel

### reduced engine emissions

- NOx, carbon monoxide, particulate matter,
  - · contains virtually no sulfur

### can be blended at virtually any level with diesel and BD

- some equipment manufacturers have a 50% maximum RD inclusion currently
- effectiveness of blending in biodiesel helps mitigate the loss of additive compatibility, elastomer compatibility, density and freezing point that straight RD is known for

### exceptional combustion quality

• cetane number is greater than 65 (Federal diesel spec limit is 40)

### desirable cloud point

 cloud point typically less than -10 °C, winter pipeline spec limits for diesel are around -10 °C

### biodiesel - oxygenated fuel

### reduced engine emissions

- · sulfur, carbon monoxide, hydrocarbons and particulates
- oxygen in fuel molecules helps the engine burn fuel more completely; less exhaust as hydrocarbons or soot

### can be blended at virtually any level with diesel and RD

- 20% is a common blend level
- Higher quality BD performs better in blends with RD

### enhanced lubricity

- Excellent for ULSD and renewable diesel
- No lubricity additives needed with B2 or higher blends

safety requirements for transport and handling of B100 are comparable to vegetable oil



### iowa policy



### current policy overview

- Iowa is the #1 state in biodiesel production, and #2 in soybean production
- In May 2022, Iowa Governor Kim Reynolds signed the "Governor's Biofuels Access Bill" which expanded access to biofuels and created the first B30 incentive in the nation

### biodiesel incentives

- Doubles biodiesel production tax credit to \$0 04/gal, increases cap to \$1 million per facility, sunsets 2027
- Changes fuel tax differential from B11 to B20, sunsets 7/1/2030
- Codifies requirement that state of lowa procure B20-compliant diesel fleet vehicles (from 2019 Governor's executive order)
- · New biodiesel tax structure.
  - B5-B10 \$0 035/gal, sunsets Dec 31, 2023
  - B11+ \$0 05/gal, sunsets Dec 31, 2027
  - B20 \$0 07/gal, sunsets Dec 31, 2027
  - B30 \$0 10/gal, sunsets Dec 31, 2027 (first in the U S)



### optimus b100 technical overview

Optimus System enables virtually any existing diesel engine to operate on 100% biodiesel, including DPF- and SCR-equipped engines.

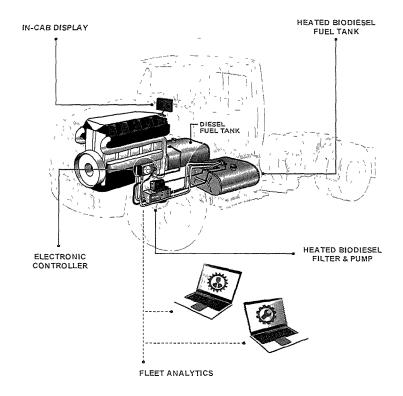
system includes a second heated fuel tank and an in-cab display

startup and shutdown always occurs on diesel

available as retrofit for existing engines









### national impact of chevron renewable energy group's iowa plants

lowa locations support approximately



### 2022 NATIONAL IMPACT:

Over

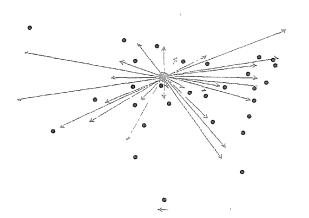
FEEDSTOCK USED IN **IOWA PLANTS** 

Purchased from nearly 230 locations resulting in over \$522 million of added value to the nation's economy

Over

BIODIESEL PRODUCED

Delivered to nearly 445 locations nationwide



In 2022, **24,804 &** 2,958 **went through plants in lowa.** 





### questions?



### thank you.

Natalie Merrill, Senior VP - Business Development & Strategy

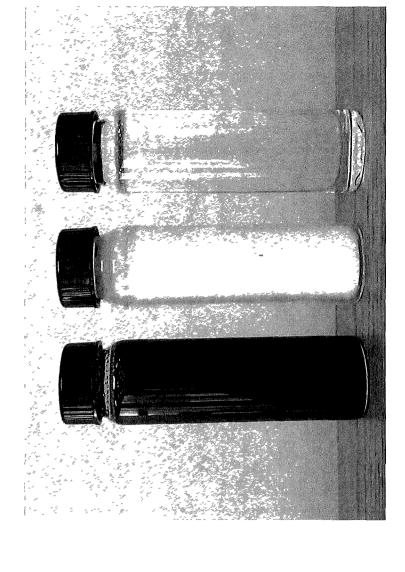
phone 515.567 0232 Natalie.Merrill@chevron.com

www.regi.com

The information contained herein is believed to be reliable, but we make no representations concerning the accuracy or correctness of the data. The information in this presentation, like any other should be confirmed independently for the particular end user conditions to ensure the products meet the relevant requirements and regulations. We shall have no liability whatsoever, regardless of any legal theory, arising out of your use or reliance on the information contained herein. Our liability is limited to the replacement value of defective product. Independent results may vary



### Chewron 
# renewable diesel production samples

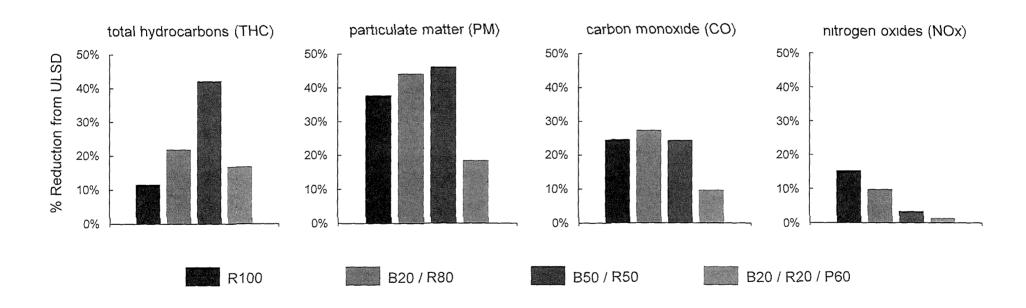






© 2023 Chevron

### engine emissions reductions (CARB data)



Source Chevron Renewable Energy Group charts based on California Air Resources Board assessments compared to federal ULSD



### consumer choice for maximum fossil carbon reductions

### CUSTOMER



WANTS:

100% renewable; lower Cloud Point

### SOLUTION:



R80 B20

### CUSTOMER



WANTS:

100% renewable, better economics & supply

### SOLUTION:



R50 B50

### **CUSTOMER**



### WANTS:

40% renewable, good economics; lowest Cloud Point

### SOLUTION:



P60 R20 B20

### CUSTOMER



WANTS:

100% renewable, best economics

### SOLUTION:



B100

### **CUSTOMER**



### WANTS:

≥ 20% renewable; good economics & supply

### SOLUTION:



P80 B20+

### En Jura Fuels

### Infini

### Biodiesel

- Oxygenated fuel with lower CI than petroleum diesel
- Can improve combustion quality and reduce engine emissions

### Puri

### Ultra Biodiesel

- Exceed ASTM, CEN and CGSB biodiesel quality requirements
- Cold flow properties that enable similar operation as petroleum diesel

### Veloci

### Renewable Diesel

 Ultra-high Cetane number hydrocarbon renewable fuel that can serve as a direct replacement to petroleum diesel

### UltraClean Blen.

### Renewable Diesel + Biodiesel

- Combination of VelociD™ and PuriD™
- One of the lowest overall engine emissions

### Beyon

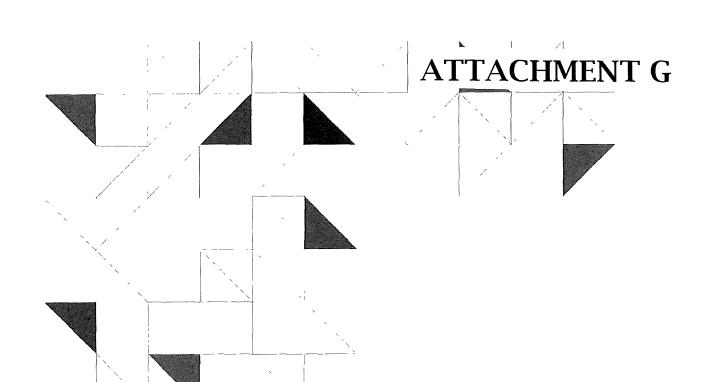
### Sustainable Aviation Fuel

 Produced with no fossil carbon, allowing notable reductions in direct aircraft fossil carbon emissions on a lifecycle basis<sup>1</sup>

LG0

A complete line of fuel solutions to help companies work toward lower carbon targets





## lowa Energy Center Board

## Kelcey Brown

President and CEO



### Our Commitment to You

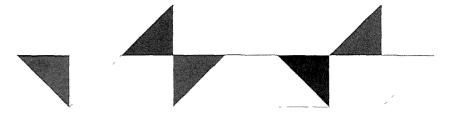
### **Destination Net Zero**



Affordable

Reliable

Sustainable





















### Renewable Equation

MIDAMERICAN'S RENEWABLE ENERGY

### EQUATION

TODAY

**7,300 MW**Renewable Energy



WIND PRIME

**2,092 MW**Renewable Energy





100% renewable energy delivered to customers



Reduction in carbon emissions

Rate stability

\*

Keeping rates low



New Technologies and Innovations



100% Renewable Energy Vision

2021 GreenAdvantage ~ 88.5%

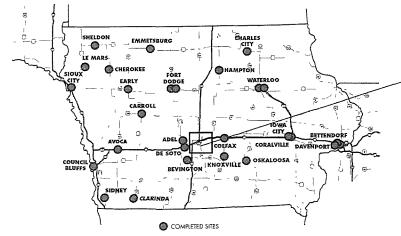


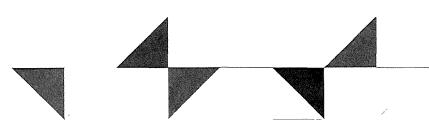
· Transmission Infrastructure

### Leading the Charge

### **Statewide Charging Network**

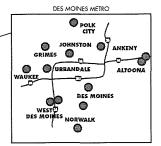
- Created a charging network around lowa to support EV growth
  - 41 chargers are available around the state with 9 more under development
  - Each charger can generally charge an EV in 20-45 minutes
    - Charging costs are determined by site hosts



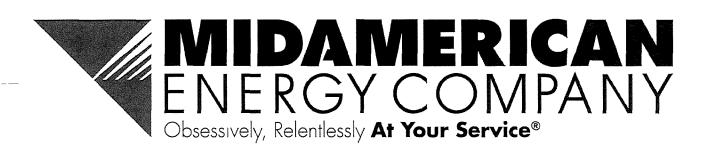


### MidAmerican's Electric Fleet

- Three EV bucket trucks just placed in service
  - Can drive up to 135 miles on a full charge and operate hydraulic equipment for a full day's range of work
  - The truck's aerial lift and bucket lifts crews up to 55 feet
  - Separate battery sources for vehicle and lift mechanisms
- The fleet includes more than 130+ vehicles that are partially or totally electrified







ATTACHMENT H

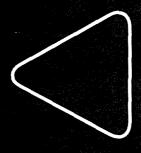
A stronger, lighter and more sustainable world

Prepared for the lowa Energy Center Board

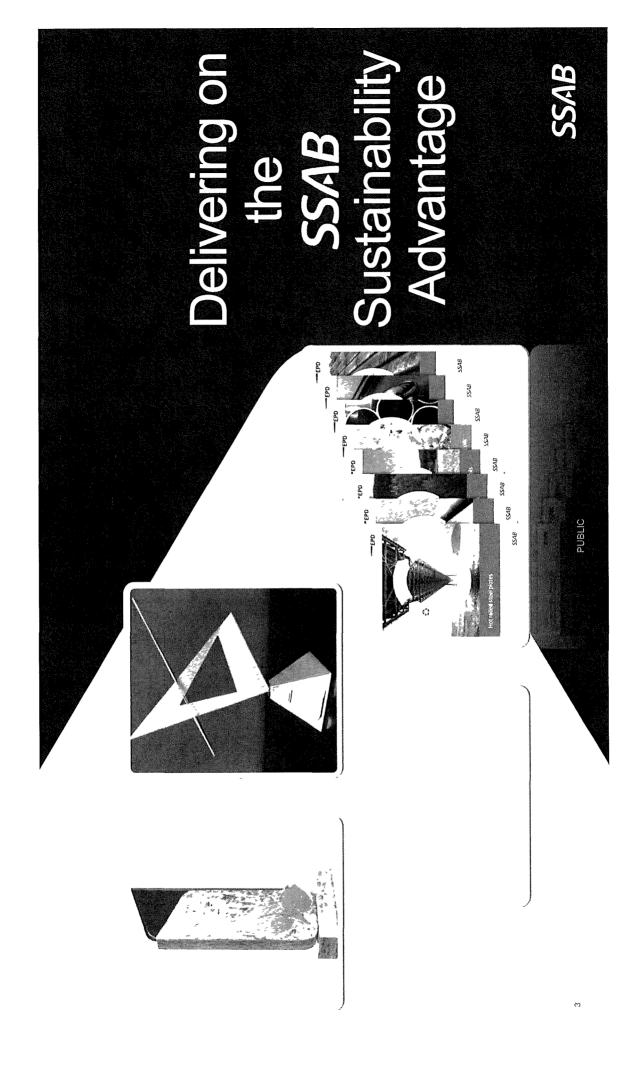
August 10, 2023



### SSAB leads industry in North America



Market-leading North American producer of quality steel plate and coil

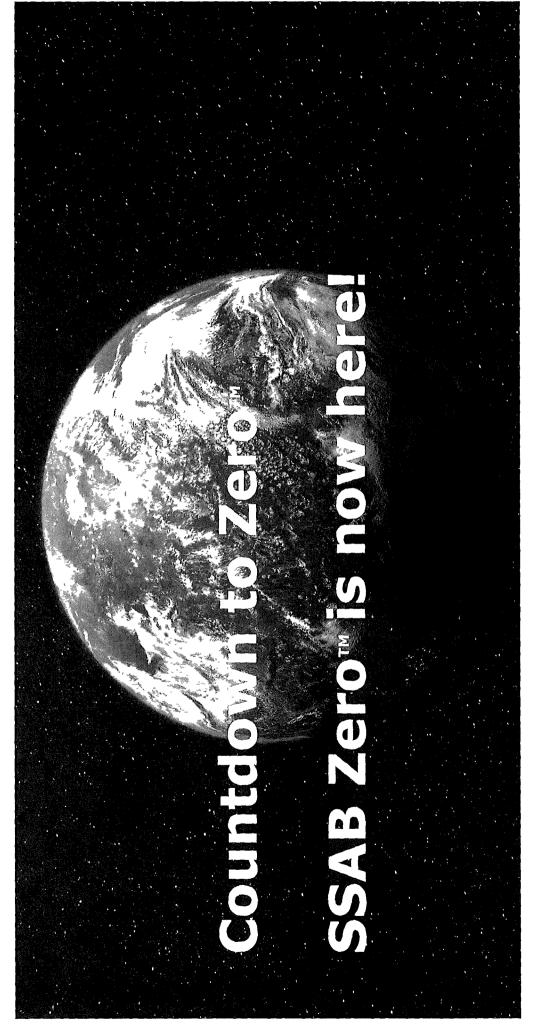


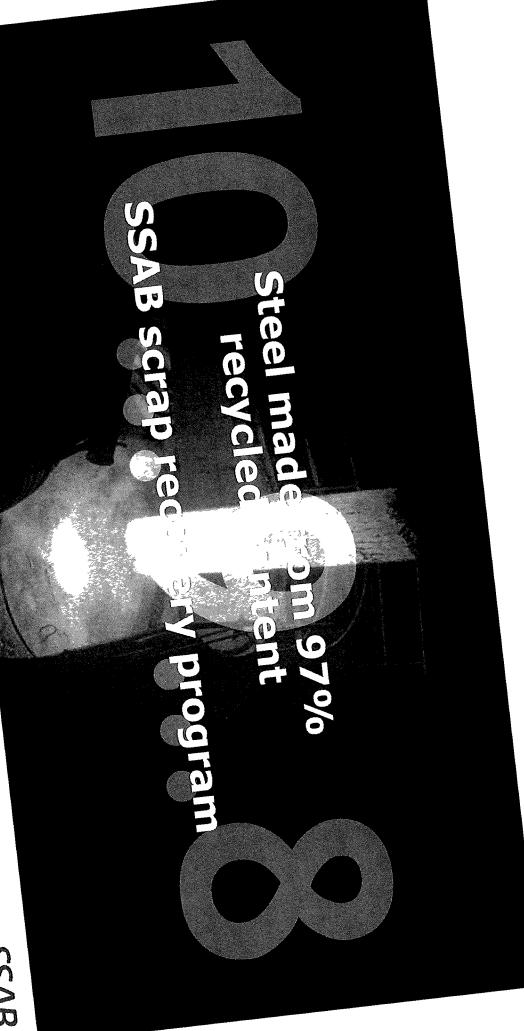


### Delivering on Iowa's Sustainability Advantage

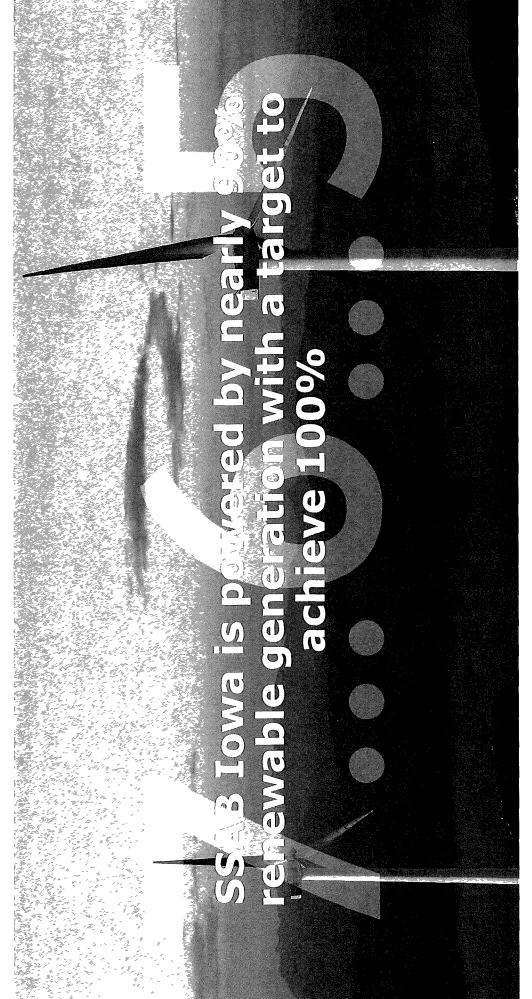
SSAB's activities to eliminate emissions related to fossil fuels

- 1 ENERGY EFFICIENCY:
  The first step is to improve energy efficiency across our operations in order to reduce the amount of energy needed.
- USE OF ELECTRICAL ENERGY:
  SSAB strives to enhance energy efficiency, including transition from fossil fuel energy to electrical energy. The benefit in CO<sub>2</sub>e reduction depends on the use of renewable electrical energy, of which SSAB is focused on achieving a significant share.
- ALTERNATIVE FUEL USE:
  Investigate the utilization of Renewable Natural Gas (RNG) or biogas as a fuel supplement and/or replacement for natural gas.
- 4 REPLACE OTHER FOSSIL BASED RAW MATERIALS: Introducing alternate raw materials to further reduce CO<sub>2</sub>e directly at the source.



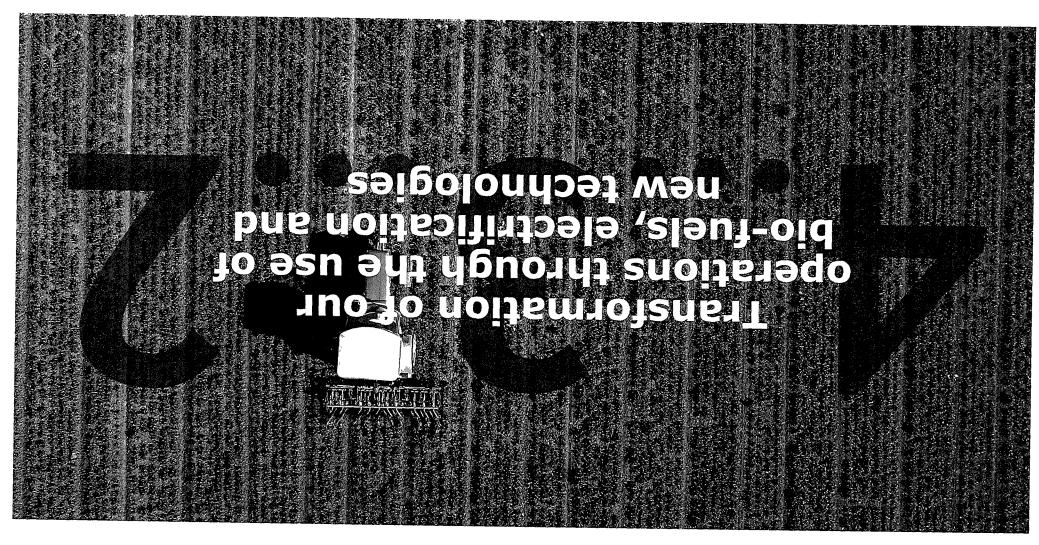


PUBLIC



PUBLIC

8







SSAB



PUBLIC

### SSAB Zero™: Made in Iowa

"SSAB shows what it looks like to operate on the cutting edge of this industry, and lowa could not be prouder to play host and be a part of that." -Governor Kim Reynolds

MidAme CAN PANY.

"We are proud to have such an innovative company pursuing climate neutral solutions in lowa; and we wish them the very best as they continue to lead the steel industry."

- Congresswoman Mariannette Miller-Meeks



Rep. Miller-Meeks Recognizes SSAB Steel on the House Floor

SSAB



SSAB

PUBLIC

### Verbio Biofuel and Technology

lowa Energy Center Advancing Renewables Greg Northrup

August 10, 2023

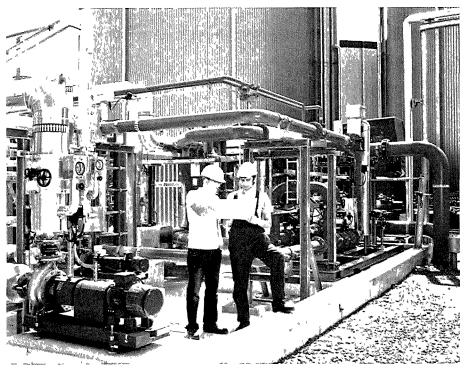
ATTACHMENT I

### **Company Profile**



VERBIO is a leading independent bioenergy producer in Europe. VERBIO manufactures biofuels, feed, bio-fertilizers as well as high-quality ingredients for the pharmaceutical, cosmetics and foodstuffs industries.

Furthermore, VERBIO operates affiliate companies in **Poland**, **Hungary**, **India**, **USA** and **Canada**.



### **Facts & Figures**

2006: Foundation and IPO

Turnover FY 2021/22: \$1.65 billion

■ EBITDA FY 2020/21: \$200 million

**■ EBITDA FY 2021/22: \$500 million** 

■ Employees: 900+

World's largest biomethane producer

■ Biomethane from 100% crop residues and agricultural wastes

### Installed capacities (per year)

*Verbiodiesel* 200,000,000 gal

*Verbioethanol* 87,000,000 gal

**Verbiogas** 3,000,000 MMBtu

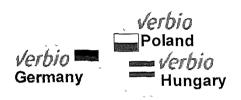
### **Company Profile**



### VERBIO goes global









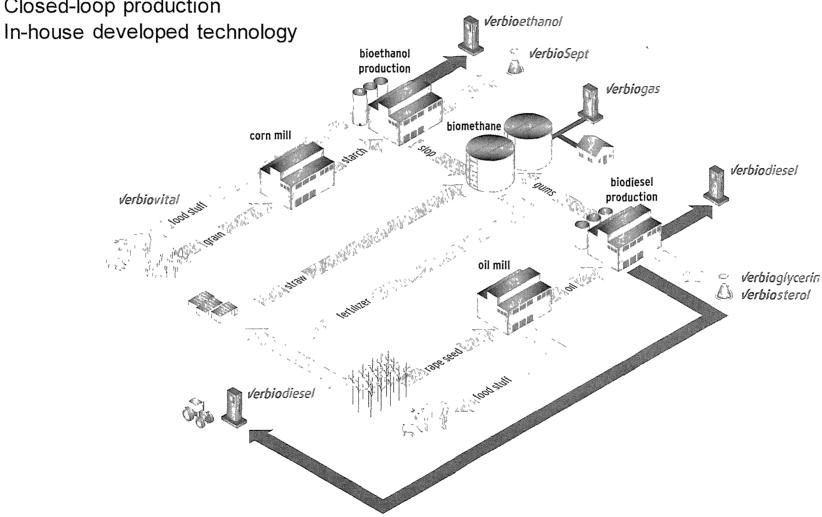
<sup>\*</sup> production facilities under construction

### Integrated Biorefinery Concept



### Unique VERBIO production layout

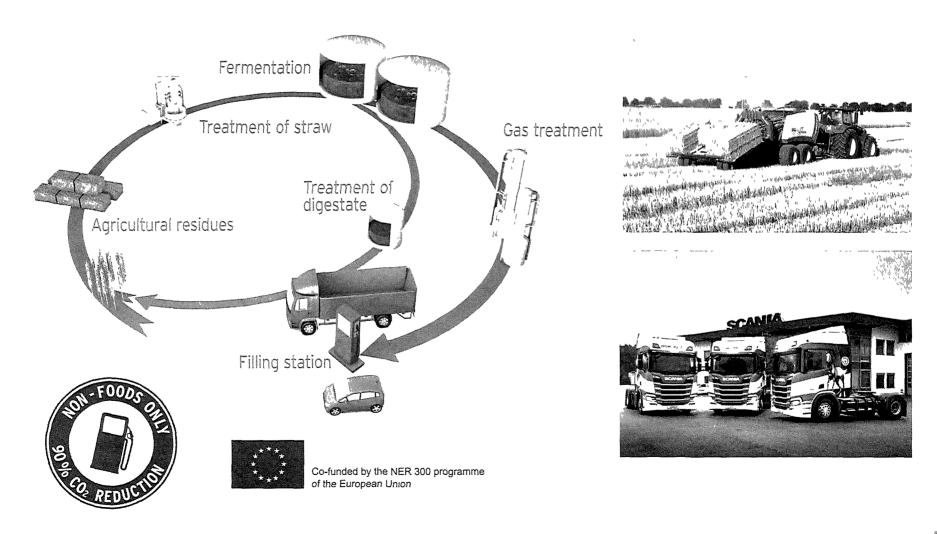
Closed-loop production



### Verbiogas from straw/stover



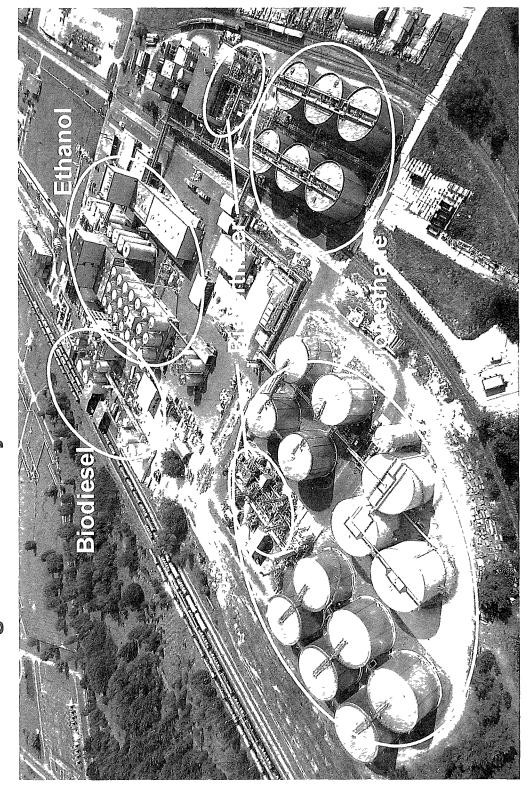
### First worldwide and large scale technology developed by VERBIO



# VERBIO Schwedt (Germany)

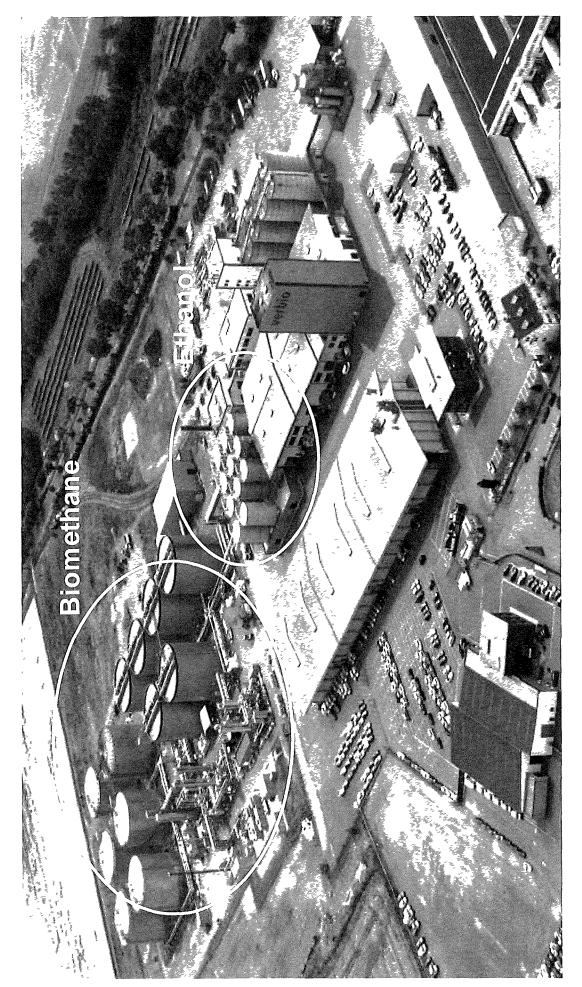
### Verbio Biofuel and Technology

## World's largest biorefinery!

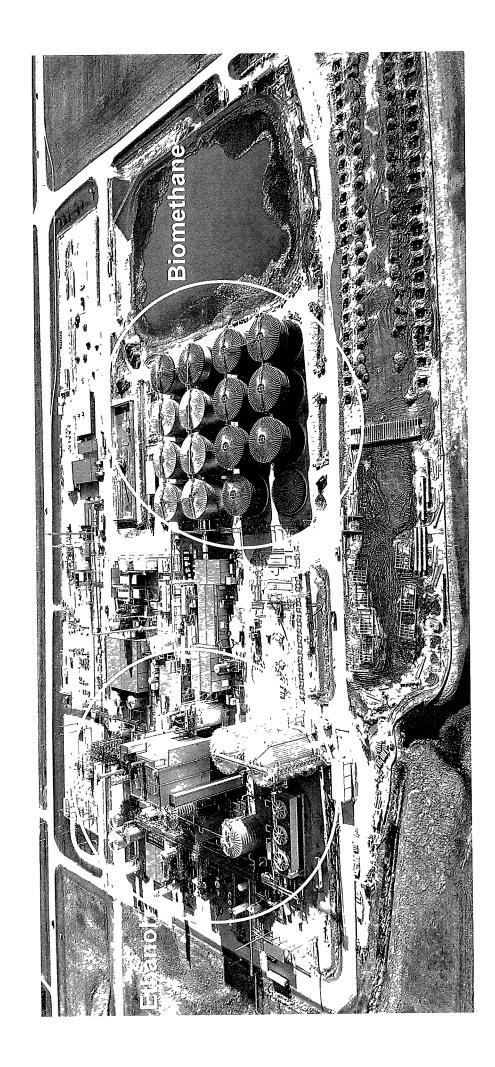


# VERBIO Zoerbig (Germany)





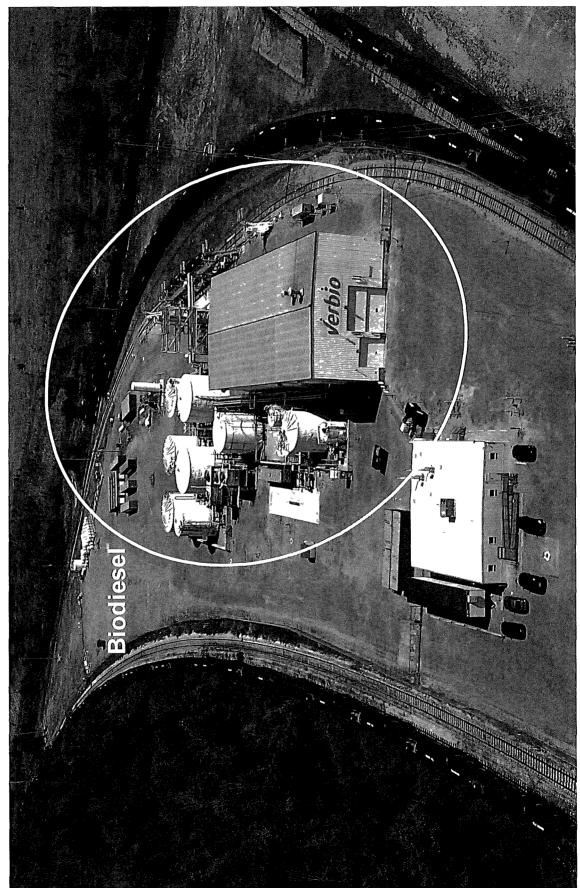
# VERBIO Nevada Biorefinery (lowa)



## **VERBIO South Bend Biorefinery** (Indiana)

## Verbio Biofuel and Technology





### HUEELLUL VA ESOS, OI JauguA MINNEBAGO ERVZ OVERVIEW ATTACHMENT J

848EC is a sustainable electric van; helping protect nature so users can be

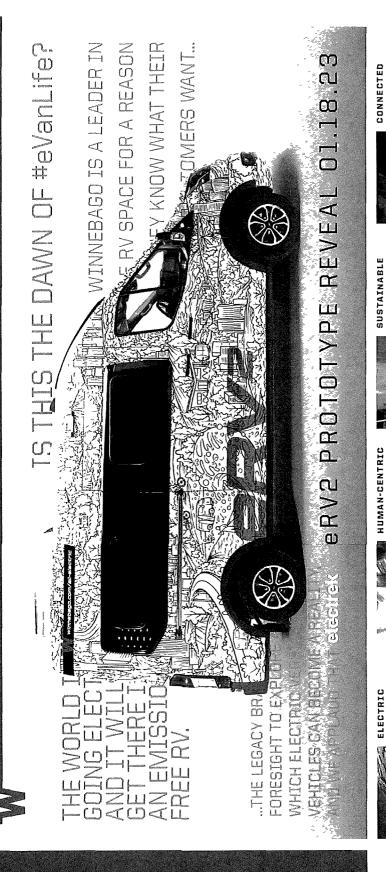
### PRODUCT SUMMARY

The eRV2 is a pioneering product that will reveal the impact of electrification on how owners will live, work, and play in a BEV Class B RV.

- 1. 100% electric design. eRV2 does not carry any fossil fuels or similar combustible fuels on board.
- 2 Chassis-agnostic electrical system allows for energy transfer between house and chassis
- 3 High speed shore power charging
- 4 Modern "Japandi" interior styling to usher in Winnebago's advanced technology in a sophisticated tasteful manner
- 5. Full *Winnebago Connect*™ implementation





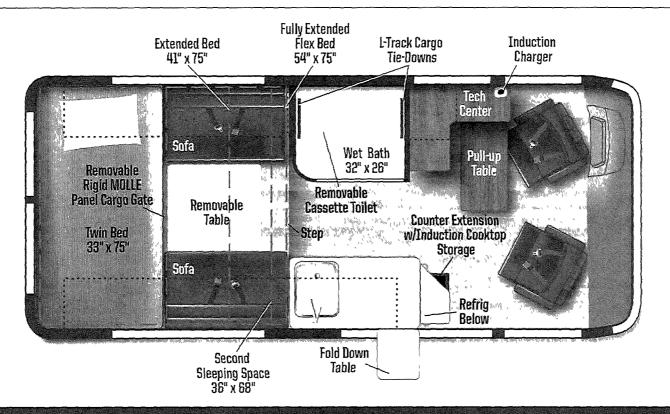




From Chilowich Hoaring to Paperston's window frame, wo've employed sustainable and recycled materials it froughout the van to further nature your impact on the environment.

Bult around the ford E-frantit
looffice chards and propriters, the foreigness better yestern, the all-obsertic plattery evictor, the all-obsertic plattery my provides zero-remarkon power to both the divistrem and the flower with up to 7 days of boordocking capability.

### eRV2 Floorplan



### Winnebago Motorhome Go-to-Market Progression of eRV

### eRV1

(Project Tahoe)
Proof-of-Concept Project



**Goal** Develop Electric RV Proof-of-Concept Prototype to obtain technical understanding of integrating BEV Chassis with All Electric House Functionality

**Timing** Jan 2022 **Lead**. Winnebago Industries - Advanced Technology Group (ATG)

### eRV2 Prototype

Pre-Production Prototype User Experience Fleet



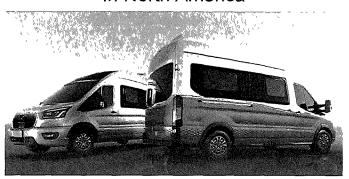
Goal. Deliver a Production Ready Fleet of (12) Electric RVs via Winnebago Production Process That Meet Customer Usage Models and Obtain Significant User Experience Feedback Prior to Production Release

Timing: Jan 2023

Lead. Winnebago Brand Team

### eRV2

1st All Electric Production RV In North America



**Goal.** Deliver 1st mass-produced All Electric RV in North America that incorporates feedback from 12 field tested units with Real Customer User Experience Testing

Timing 2024 (dependent on Ford Gen 2 Chassis Lead: Winnebago Brand Team

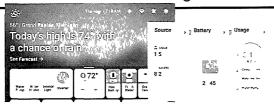
### **eRV2 KEY ELECTRICAL SYSTEM INNOVATIONS**

### New To WGO



### Winnebago Engineered 48V System

Fast battery charging and highefficient A/C usage



### Winnebago Connect™ Energy Management

Provide consumer confidence and control to extend off-grid capability

### New To WGO & RV Industry (Patentable)











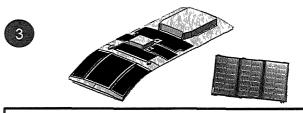
### **Flexible Charging Sources**

Peace of mind to charge house system at any locations (campgrounds, homes, or EV stations)



### **Unique Proprietary Flat Battery**

Superior driving experience with low center of gravity



### Best-in-Class 900W Solar Capability

Optimize energy generation and enable 7-day Boondocking

### eRV2 Media Feedback

Winnebago's New Electric Camper Van RV Concept Can Stay Off-Grid for 7 Days

Winnebago Introduces eRV2 to Wedge into Electric-RV Future

Why the Electric Winnebago is Promising, Even with the 108-Mile Range

BUSINESS INSIDER

**Forbes** 

InsideHook

Winnebago's New EV Camper Concept Shows that All-Electric #VanLife is Coming Soon Winnebago Debuts
Electric RV Prototype
for New Generation
of Explorers

Winnebago Kicks of eVanlife with All-Electric eRV2

Robb Report

TR FUTURRIDE

ThaVarga



### **eRV2 Pilot Learnings**

"So it's kind of a difference between using GasBuddy and PlugShare – so it's not so different? ... Every van has its quirks, it's all about resource management and using what you have, and that's the same [with our van] versus the eRV2. The main difference was the less spontaneous aspect.

Ultimately, van life is van life, RV life is RV life, and everyone has their own tendencies and practices. And I think we learned a different way, maybe even a better way, to do it in the eRV2."

### Primary drivers of eRV consideration include:

- 1. Sustainability
- 2. Being 'part of the future'
- 3. Simplicity of all-electric and ease of maintenance

Behavioral traits that correspond with enjoyment of eRV travel styles includes:

- 1. Slow travel of only 100-200 miles per day
- 2. Desire to plan trips via apps and ability to toggle between multiple apps to create one plan

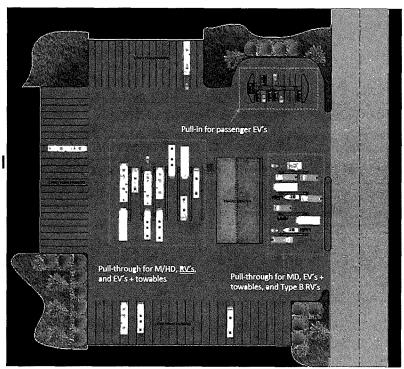


### Accommodating Electric RV's

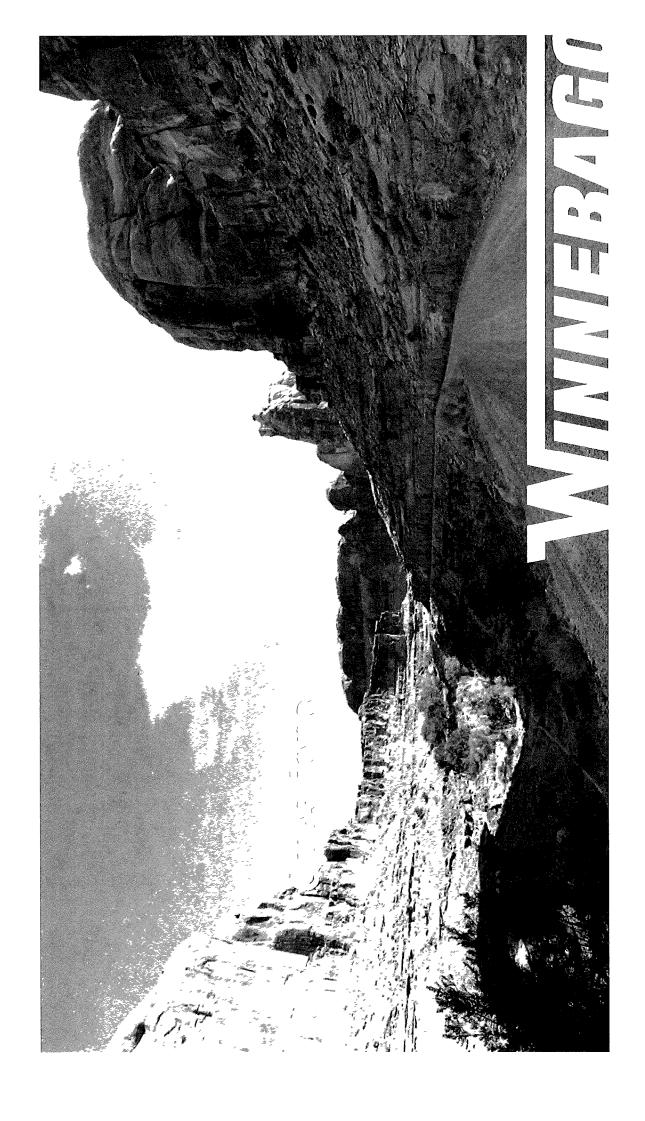
Consumers will need Pull-Through Charging.

The types of EV consumers that will rely on a nationwide public network of pull-through DCFC stations include RVs (towable and motorized), vehicles towing recreational (e.g., boats, ATVs) or commercial (e.g., agriculture, landscaping) trailers, moving trucks (e.g., U-Haul), and other M/HD commercial vehicles. Key characteristics of consumers that wil utilize pull-through sites include, but are not limited to, the following:

- · Travel long distances.
- Tow trailers.
- Lower kilowatt-hour per mile (kWh/mile) efficiencies.
- Larger than standard vehicle lengths (with or without trailer).







### ATTACHMENT K

Vehicle Infrastructure Funding Update

National Electric

lowa Energy Center Board Stu Anderson, Iowa DOT August 10, 2023





### Agenda

- Iowa EV Registrations
- National Electric
   Vehicle Infrastructure
   (NEVI) Program
- What's Next?





### EVs in Iowa Today



With statewide growing adoption, 12,805 EVs and hybrid vehicles were registered in lowa as of June 2023 at least one was registered in every county.

	Battery Econic Ventoles	Rugin Hypaid Electric Vehicles
April 2017	400	
June 2018	700	1,750
June 2019	1,340	2,400
June 2021	3,200	3,180
June 2022	5,740	4,610
December 2022	5,990	4,720
June 2023	7,120	5,685

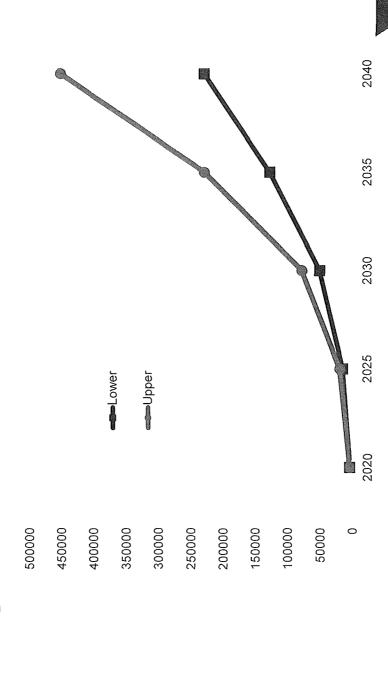


To support this growth, lowa has 297 EV charging locations (Level 2 and 3) across the state for public use. 68 EV charging locations are Level 3 (non-Tesla)



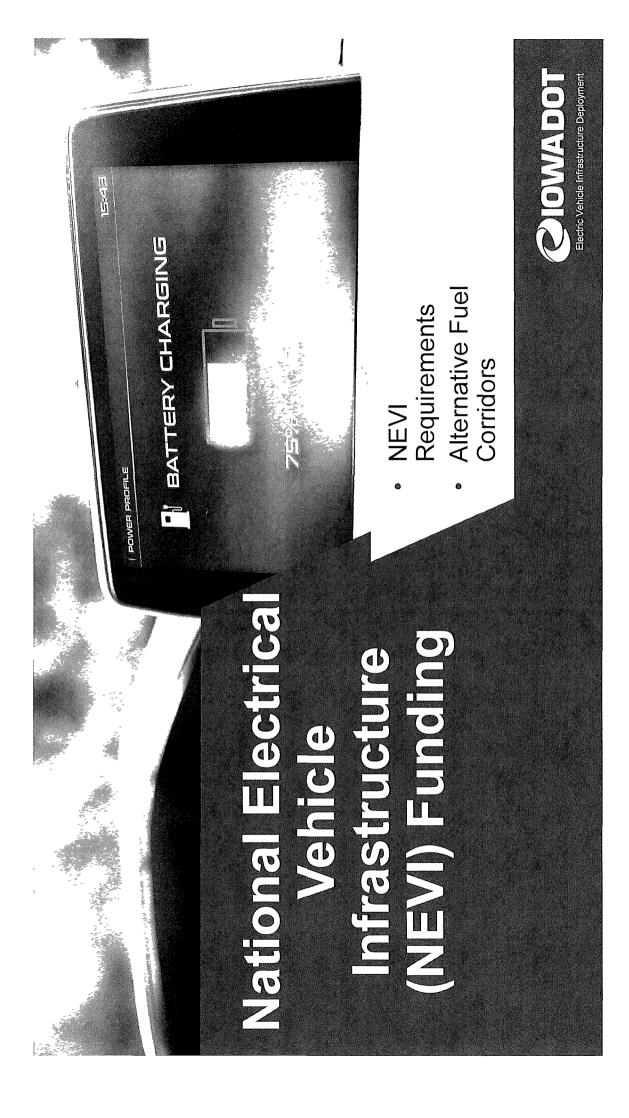
Electric Vehicle Infrastructure Deployment

# Projected EVs on the Road in lowa





lectric Vehicle Infrastructure Deployment



### Program Background

Iowa DOT Electric Vehicle Infrastructure Deployment Plan

Approved September 2022

2023 Update submitted August 2023

Iowa DOT now establishing an EV Charging Grant Program

In compliance with federal regulations

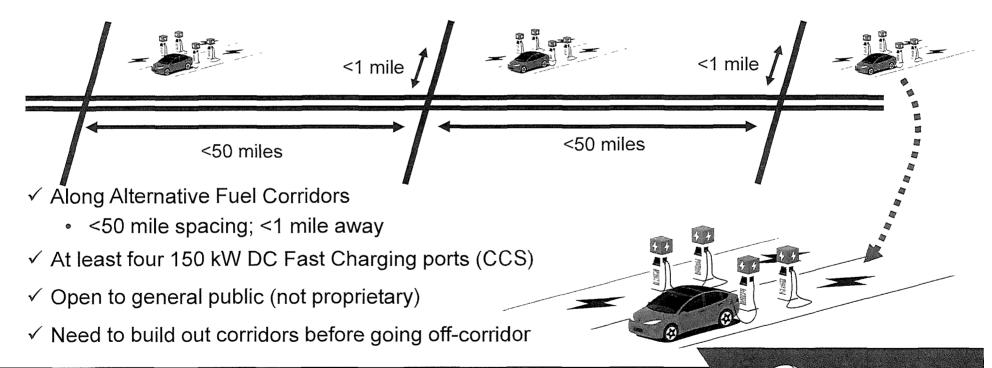
### **NEVI Formula Funds** and Matching Funds (Millions)

FEDERAL FISCAL YEAR	FORECASTED NEVI FUNDS (80%)	MINMUM NON- FEDERAL MATCH FUNDS (MIN. 20%)	TOTAL (100%)
2022	\$7.6 M	\$1.9 M	\$9.5 M
2023	\$10.95 M	\$2.75 M	\$13.7 M
2024	\$10.95 M	\$2.75 M	\$13.7 M
2025	\$10.95 M	\$2.75 M	\$13.7 M
2026	\$10.95 M	\$2.75 M	\$13.7 M
Total (5 Year)	\$51.4 M	\$12.9 M	\$64.3 M



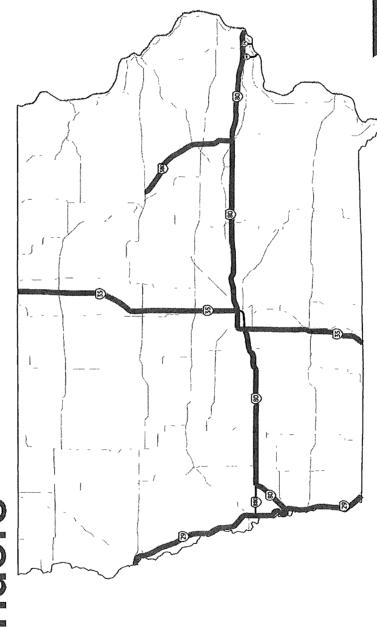


### **NEVI Requirements** for Charging Stations





# lowa's EV Alternative Fuel Corridors









### **Implementation Challenges**

- Using Federal Highway Funding
- Procurement/Contracting Process
- Evolving landscape (e.g. rapid shift to NACS)

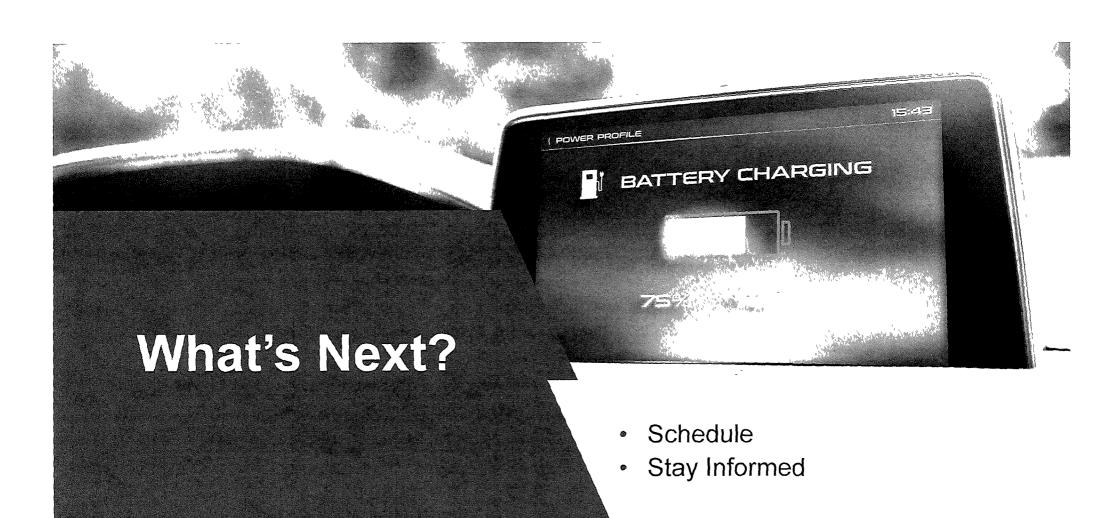




### Priorities for Program Development

- Transparent
- Collaborative
- Thoughtful
- Equitable









### EV INFRASTRUCTURE DEPLOYMENT PLAN

### **⇒** Schedule

- Ongoing: Finalizing Notice of Funding Opportunity material
  - Will include stakeholder review of draft material
- Fall 2023: Release Notice of Funding Opportunity
- Winter 2023: Proposals due
- First Half of 2024: Award funds





### Stay Informed

- Visit the website: iowadot.gov/lowaEVPlan
- Understand the grant cycle and when funding is expected to be available
- Continue to participate in the dialogue
- This is just the beginning of a five-year process
- lowa.EvPlan@iowadot.us

