NC STATE UNIVERSITY

SUSTAINABLE FLEET TECHNOLOGY

VIRTUAL CONFERENCE 2020

Session 6: The Green Fleet Awards 2020 Winners Announcement

September 09, 2020

NC CLEAN ENERGY TECHNOLOGY CENTER

100 BEST FLEETS

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

SUSTAINABLE FLEET TECHNOLOGY

VIRTUAL CONFERENCE 2020

https://www.sustainablefleetexpo.com/

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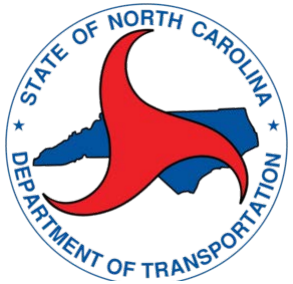
Platinum Sponsors



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Sourcewell

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New Sessions Added:

September 30: Transportation Electrification & Climate Impact, Featuring a Statement from NC Governor Roy Cooper

October 14: Best Practices of the Top Green Fleets

November 11: Information & Analytical Tools for Sustainable Fleet Decisions & Actions

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SUSTAINABLE FLEET TECHNOLOGY
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Next Series Dates & Topics:

September 23: Best Practices & Lesson Learned in Charging Infrastructure Deployment

September 30: Transportation Electrification & Climate Impact, Featuring a Statement from NC Governor Roy Cooper

October 07: Electric Vehicle Options for Fleets

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STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

Format

- Q&A at the end
- Submit questions and comments to “Panelists”
- Scheduled for 2:00p-3:30p
- Slide handout
- Recording

The Green Fleet Award 2020 Winners Announcement
September 09, 2020

2:00-2:10 **Rick Sapienza, NCCETC & Tom Johnson, The 100 Best Fleets**—Welcome & Introduction

2:10-2:15 **Courtney Bozic, Clean Fuels Consulting**—Green Fleet Awards Judge's Perspective and Comments

2:15-2:20 **Tigger Huchel, No-Spill Systems Inc.**—Green Fleet Awards Judge's Perspective and Comments

2:20-2:27 **Gary Dannar, DD Dannar LLC**—Mobile Electric Power Station Platforms

2:27-2:32 **Jason Halvroson, King County WA**—King County's Online Rideshare Program

2:32-2:39 **Doug Lollar, Adomani Zero-Emissions Vehicles**—Adomani Product & Solutions

2:39-2:46 **Kevin Myose, County of San Joaquin**—Vehicle Right Typing & Solar Charging

2:46-2:52 **Sass Peress, iSun Energy**—iSun Stand Alone and Integrated Solar Solutions

2:52-3:00 **Tom Johnson, The 100 Best Fleets**—Top 50 Green Fleets 2020

3:00-3:05 **Top Green Fleet Award Winner 2020**

3:05-3:30 **Q&A**

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100 BEST FLEETS

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

Rick Sapienza
resapienza@ncsu.edu
Phone: 919-515-2788

- **Clean Transportation Program Director NC Clean Energy Technology Center at NC State University**
- **8 years with NC State**
- **30+ years experience including General Motors, Draper Lab and Great Lakes Pulp & Fibre in both engineering and business management roles**

NC CLEAN ENERGY TECHNOLOGY CENTER

100 BEST FLEETS

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

The 100 Best Fleets in the Americas

Tom C. Johnson,
author of *Green Fleet Awards*™
and *100 Best Fleets in the Americas*™

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San Francisco, CA 94131
www.the100best.com
415-285-8391 | tom@the100best.net

greenfleet awards|forum

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RINSEKIT

chargepoint

- **Environmental Scientist w/ more than 30 years experience**
- **Principal Consultant at Clean Fuels Consulting since 2003**
- **20 years experience with clean transportation strategies and technologies**
- **Chief Judge for the Green Fleet Awards, involved for 13 years**
- **Chief judge for newly launched Green Garage Contest with *lighter* spin on highlighting sustainable fleet and garage practices**

R. Courtney Bozic
chinchinb@yahoo.com or
Courtney@greeningyourfleet.com
631-665-6513
www.greeningyourfleet.com

cleanfuels consulting

cleanfuels consulting

- **Contest currently open**
- **Information & application on www.The100BestFleets.com**
- **Application deadline October 05, 2020**

Tigger Huchel
tigger@nospillsystems.com

- National Account Manager – No Spill Systems Drain Fluid Technology
- Sales -Marketing over 20 years- (*in between raising five kids*)
- Earned Degree in 2016 while working full time
- US Navy Veteran stationed in Pearl Harbor HI- as a diesel mechanic for the Arizona Memorial Tour Boats, 671- Detroit Gray boats, CAT 3508 Ferry Boats and Captains Boats

no spill SYSTEMS
Fluid Draining Technology

Eliminate messy oil changes forever!

no spill SYSTEMS

Fluid Draining Technology

Eliminate **messy oil changes forever!**

WHAT NO-SPILL IS NOT...

No Lead

No Levers

No Plastic Clips

No Ball Valves

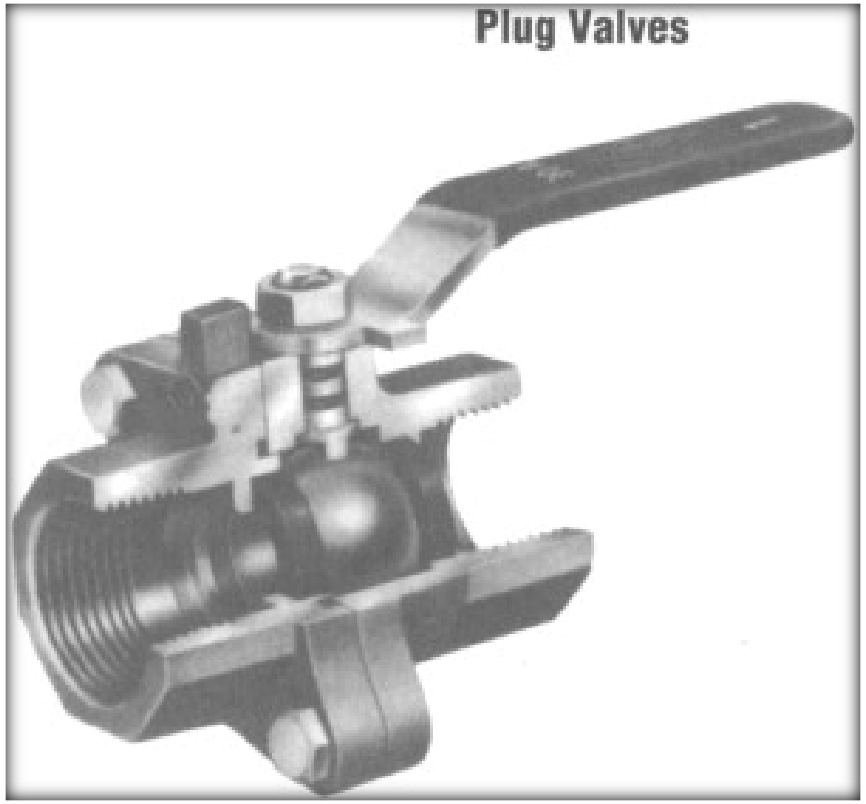
No Cast Moldings

No Plastic Inner Bushings

No Forged Stainless Steel

No Low-Grade Hose Materials

No Plastic Outer Locking Devices



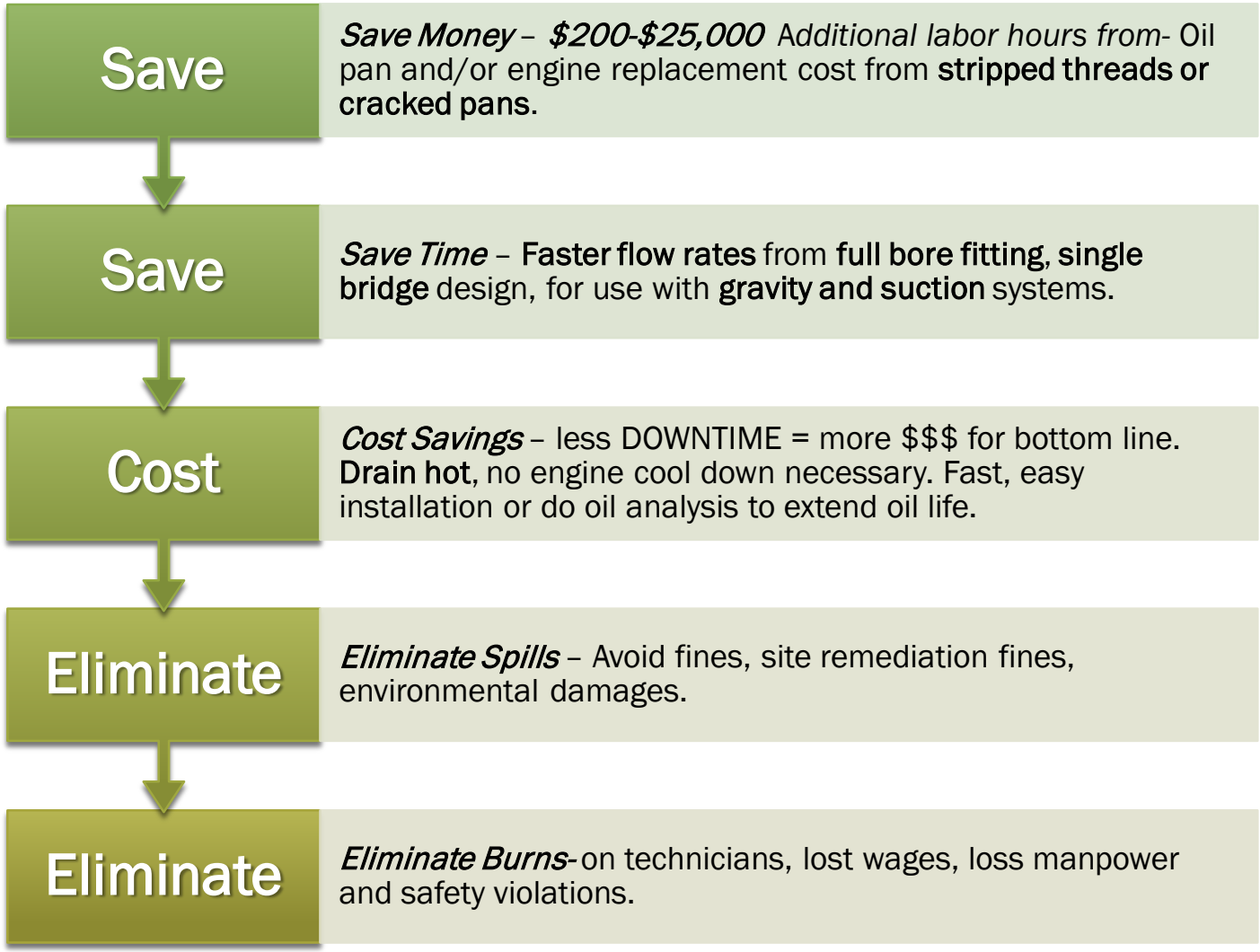
PRODUCT LINE DESIGN SERIES

Standard Design - (with *magnet*) – is considered our classic system.

Compact Design - (**magnets available*) – low profile for clearance issues.

Speed Click™ Design - (with *magnet*) – faster speed and tech efficiency. ***Machined groove on dust cap.***

CUSTOMER ADVANTAGES



No Spill Applications: Gear Box Class 1-8 Public Transportation ER Tranformers Differentials Military

REFERENCES

Walmart – Idealease - LA Metro - Old Dominion
Coca-Cola Southwest Beverages
Toronto PWT

COCA-COLA SOUTHWEST BEVERAGES

No Spill System – I was introduced to the No Spill system in 2015. I converted one location over to the No spill system for trial purposes, after seeing increase in productivity and cleanliness of shop floors I have converted my other two locations over to the system.

I have also introduced this throughout our Coca – Cola locations, they are also converting to No Spill system. There are other products available but are not user friendly as the No spill system. No spill system eliminates the step of transferring used oil from oil barrel into used oil containment by hand or transfer pump, the system is a single step operation, connect transfer hose to oil pan and continue performing other preventive maintenance steps. This system will also reduce / eliminate any EPA concerns as the recovery is directly transferred into the recovery oil containment sight. I highly recommend No Spill for both large and small fleet shops.

Jack Minze
Fleet Supervisor
Coca-Cola Southwest Beverages
1849 HWY 351
Abilene, Texas 79601
Office: 325-734-5211
Mobile: 806-567-0382 **Email:** jackie.minze@cocacolaswb.com

TORONTO – PACIFIC WESTERN TRANSPORTATION (PWT)

We did do a trial last year on the No-Spill Systems and it went really well. We found we had no issues with ground clearance, and we had no leaking issues. We did go ahead last fall and install them on all of our units with Volvo engines and will continue with the Detroit engine later this Spring. I have also learned that our Edmonton location has been using the system now for over 2 years and have had no issues.

Our biggest reason for initially trying this at PW was because we had 2 drain plugs stripped out on the Volvo oil pans and had to replace the pans. With the no-spill system the possibility of over torqueing does not exist.

I hope this helps
Thanks

DWAYNE NIPPARD
Director of Maintenance
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C 416-771-6440
F 905-564-5959
E dwayne@toronto.pwt.ca
W www.pacificwesterntoronto.com<http://www.pacificwesterntoronto.com>

Where can I get No-Spill™ plugs?

- **Local Dealerships** – International – Peterbilt - Freightliner etc. *(and many more nationwide)*
- **O'Reilly's Auto Parts** (*special order request)
- **NAPA – Traction Stores**
- **BuyBoard or Sourcewell**
- **Online** www.nospillsystems.com
- **Direct** from **No-Spill** - 888-466-7745

CLOSING

- **Thank you** - Tom with 100 Best Fleets **and** the fellow judges for allowing me to be able to participate on this panel.
- **Congratulations** to all the Winners in the past and announced here today.
- Let me help you with your **future endeavors** being environmentally friendly with our **No Spill Systems Inc.**
- Feel free to contact me directly.

Tigger Huchel 815-674-9138 Tigger@nospillsystems.com
www.nospillsystems.com

Garry Dannar
gdannar@dannar.us.com

- **Founder & CEO DD Dannar LLC**
- **Heavy Equipment Industry Leader & Innovator**
- **Strategic leadership positions with Ford Motor Co., The General, New Holland and Alamo Group spanning 3 decades**
- **Awarded AE50 from the American Society for Agricultural and Biological Engineers**
- **Recognized as one of the top 50 new products in 2007 for the Little Roadside Mowing System**

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MOBILE POWER STATION®

THE ULTIMATE WORK VEHICLE

SUPERIOR WORK

Extreme Multi-Purpose

Engineered to perform with 250+ CAT,™ John Deere™ and Bobcat™

SUPERIOR POWER

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625/500 kWh useable, per machine, scaleable power with multiple machines

WORKS. POWERS. PROTECTS.

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CLEAN WORKPOWER

RUGGED | SMART | CONNECTED

250+	8K	500	0/0
ATTACHMENTS	CHARGE CYCLES	kWh EXPORTABLE	EMISSIONS/ FUEL COSTS

- CONNECTED
- CLEAN
- REMOTE, AUTONOMOUS & MANUAL MODES
- INTUITIVE

DANNAR® POWER TO TRANSFORM

ALL ELECTRIC PLATFORM

THE ELECTRIC OFF-ROAD AND NON-ROAD WORK PLATFORMS,

ARE SELF-PROPELLED GENERATORS,

CONFIGURED FOR EMERGENCY POWER

AND MULTIPLE UTILITY FUNCTIONS.

OLD TOOLS

OUTDATED FLEETS

Diesel Emission | Single Function | Costly
Breakdown Prone | Dangerous

OUTDATED GRIDS

Outages | Maxed Capacity | Fixed Footprint
High Maintenance | Costly | Dangerous

DANNAR®
POWER TO TRANSFORM

1906-2020

Multi-Purpose Platform

Agricultural / Farm

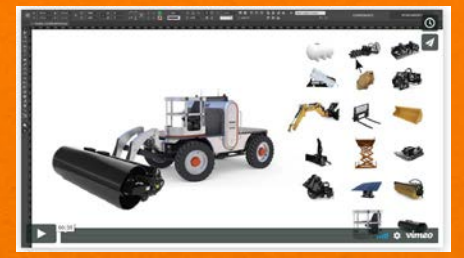
Farm Tractors, Combines, Articulated Tractors, 4WD tractors

Single-Purpose Vehicles

Industrial / Construction

Track Dozers, Tractor/Loader Backhoes, Skidsteer Loaders, Articulated Wheel Loaders, Excavators

ONE PLATFORM, MANY MACHINES



Build Your DANNAR

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XBOX STYLE REMOTE CONTROL

- One-mile range, military encryption remote
- Operator cab, operator platform or fully remote for distance safety
- Wireless supervision, follow me and autonomous operation in development

FLEXIBLE ELECTRICITY RESOURCE

Inbound Power:

- Base unit – DC Fast charge capable (CCS2 Combo) Roadmap to 500 kW inbound

Outbound Power – Standard Configuration:

- 208Y/120V 3-ph 4W
- DC Fast Charge (CCS2 Combo)

Outbound Power Configurable:

- 480V 3-phase power
- Roadmap to 500kW outbound

USE CASE: SCALEABLE MICRO-GRID

City of El Cajon

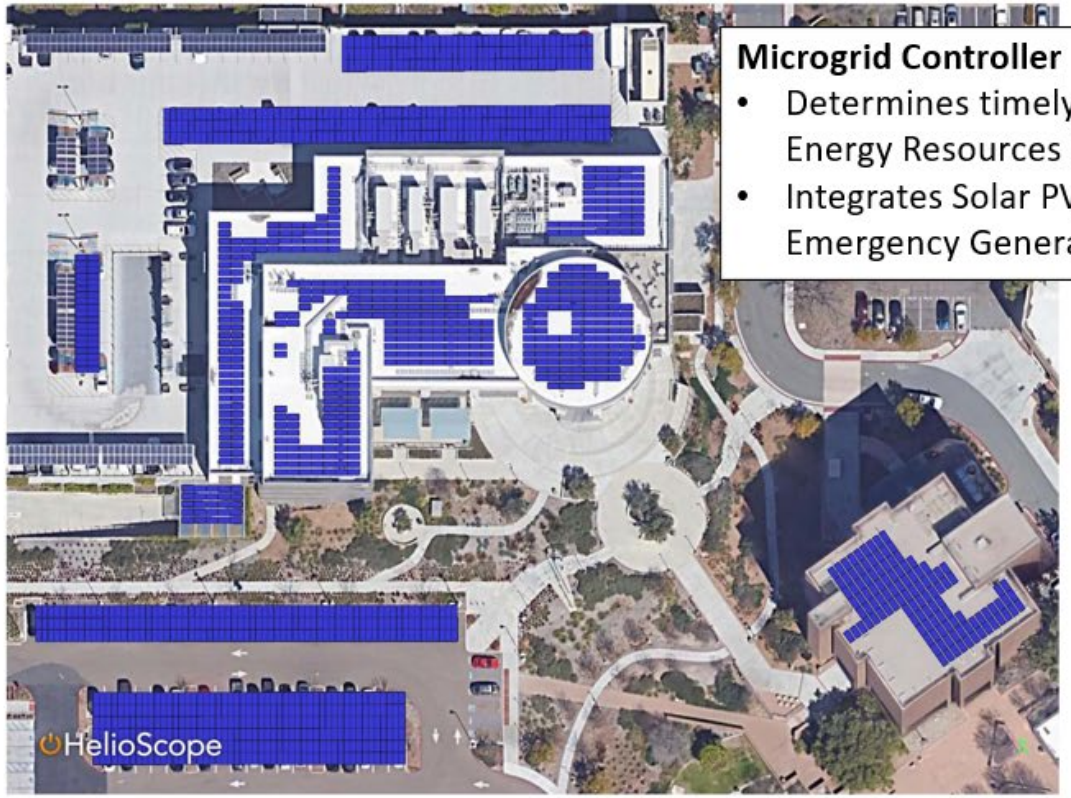
Public Safety Center Microgrid Update

July 7, 2020

WILLDAN

Project Overview

Summary



Microgrid Controller

- Determines timely dispatch of Distributed Energy Resources (DERs)
- Integrates Solar PV, Dannar Batteries and Emergency Generator

Solar PV – 587kW

- Rooftop and Carport System
- Generates electricity when the sun is shining
- Offsets building load and charges Dannar units

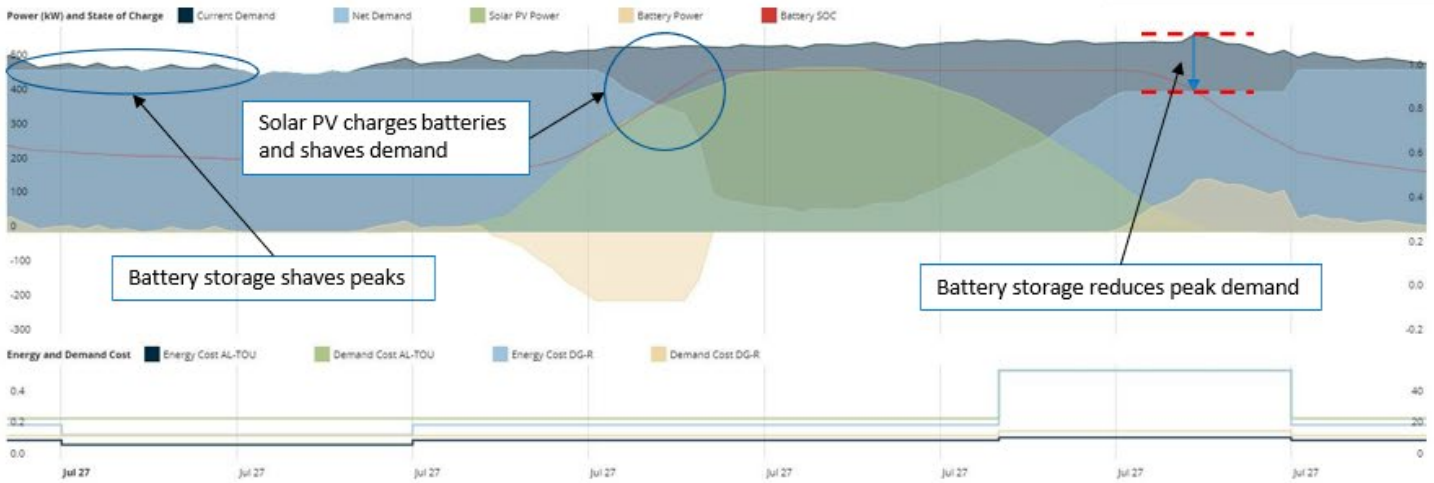
Dannar MPS – 2x 500kWh of Mobile Battery Storage

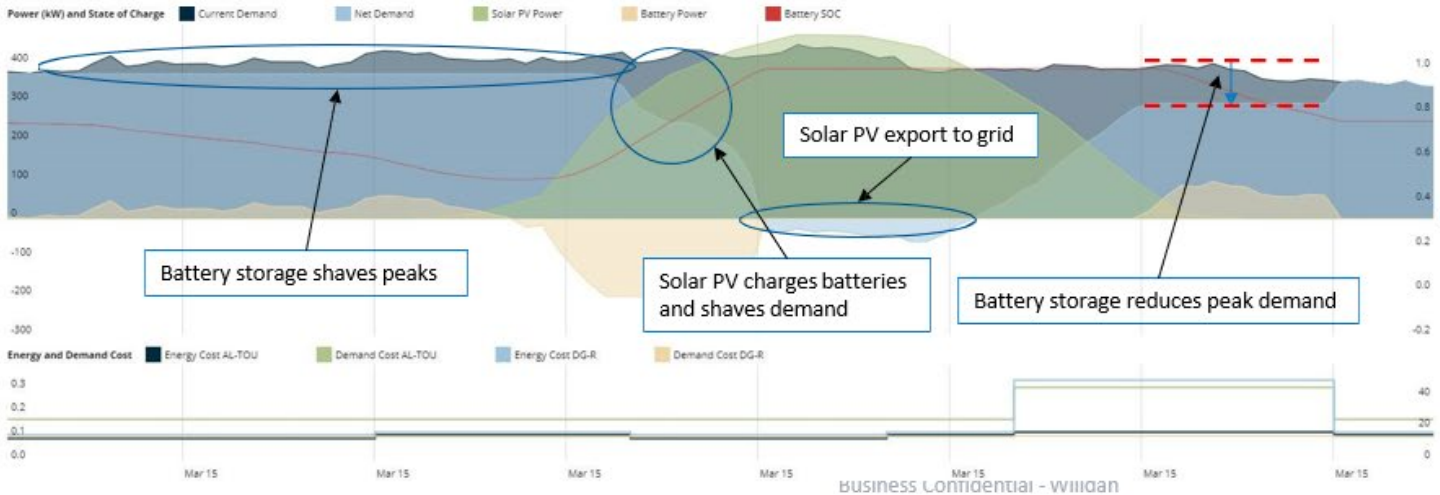
- Connected to building to store excess solar energy
- Deployed to save $ through “rate arbitrage”
- Dispatchable to community if needed

DER Interactions

Summary

Summer Day





Winter Day

USE CASE: SCALEABLE MICRO-GRID

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Founder & CEO
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(864) 616-4444

4620 W. Bethel Ave, Muncie, IN
San Clemente & San Jose, CA

Available on the GSA/CMAS Schedule
MANUFACTURED IN THE USA

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King County METRO

Jason Halvorson
jason.halvorson@kingcounty.gov
206-477-3942

- Transportation Planner for King County Metro
- VanPool Program since 2002
- Leads the Statewide support team for RideshareOnline.com, which facilitates and encourages commuting through carpool and vanpool, ride matching and reward programs
- Manages special projects exploring innovative uses of technology and alternative vehicles

NC CLEAN ENERGY TECHNOLOGY CENTER

100 BEST FLEETS

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

ADOMANI
Zero-Emission Vehicles

- Director of Sales Adomani Inc.
- 30 years experience in energy, transportation and sustainability
- Specializing in new market growth and expansion

Doug Lollar
Doug.L@adomanielectric.com
602-738-8832

www.ADOMANIelectric.com

OTCQX: ADOM

ADOMANI
Zero-Emission Vehicles

"Providing healthier air for all while reducing dependency on fossil fuels."




www.ADOMANIelectric.com

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Company and Product Overview

ADOMANI
Zero-Emission Vehicles

About ADOMANI

Our Story

Founded in 2012, ADOMANI began building prototypes of electric re-power drivetrain systems for light-duty commercial vehicles as well as America's best-selling truck, the Ford F-Series.

After success in conversion of internal combustion engines (ICE) to all-electric vehicles, ADOMANI jumped to aid in reducing toxic pollutants delivering Blue Bird a new zero-emission all-electric drivetrain for the production of their All-American electric school buses.

Realizing the greater need to provide cleaner air for not just children, but also drivers, mechanics, and communities, ADOMANI increased its focus to the electrification of commercial, passenger, commerce, and last-mile logistics fleet vehicles.

Our Mission

Providing healthier air for all while reducing dependency on fossil fuels.

Our Goal

ADOMANI's goal is to help businesses lower their overall total vehicle cost of ownership while reducing greenhouse gas emissions from converting their ICE fleet vehicles to all-electric.

ADOMANI Zero-Emission Vehicles

The Value of Electric Fleet Ownership

Social and Environmental Health Reasons

- Conversion of older fleets to ZEVs or selecting new electric vehicles significantly reduces the major air pollutants (NO_X, SO_X, $PM_{2.5}$, PM_{10}, VOCs, and CO) that are emitted from traditional internal combustion engines.
- These air pollutants are linked to respiratory and cardiovascular diseases as well as premature deaths, especially in vulnerable populations like children and the elderly and cost billions / year.
- ZEVs directly enhance the health and well-being of drivers, passengers, and ultimately all of those who live and work in the communities where vehicles operate.
- Converting fleets to electric also helps providers stay compliant with current and potential future local, state, and federal environmental and emission regulations.

Economic Reasons

- "Fueling" with electricity is less costly and the prices are more stable than traditional liquid or gaseous fuels. We estimate fleets may see up to $10,000-$12,000 reductions in fuel costs per year based on miles traveled and $3.78/gallon for cost of diesel.
- Overall maintenance costs and hazardous waste handling costs, such as those for oil changes and disposal, can be reduced or eliminated. We estimate first year maintenance cost savings are expected to be $2,000-$4,000 / year; $4,000-$6,000 / year thereafter.
- Many benefits from local air district, state and federal financial incentives in the form or rebates, tax credits or carbon credits make the purchase of ZEVs cost-effective, if available, and range from $20,000-$400,000 per vehicle. The amounts vary by vehicle and by state.

ADOMANI Zero-Emission Vehicles

HVIP Truck Total Cost of Ownership

With HVIP

	Savings
Vehicle Cost	$15,000
Maintenance	$48,000
Energy	**$153,240**

Total Savings - $216,240*

Without HVIP

	Savings
Vehicle Cost	($65,000)
Maintenance	$48,000
Energy	**$153,240**

Total Savings- $136,240*

***Class 4 truck life expectancy estimated at 12-years.**

ADOMANI
Zero-Emission Vehicles

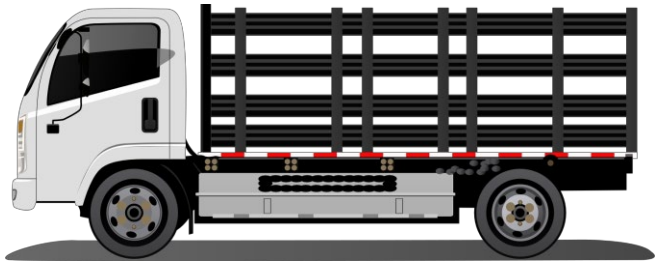
All-Electric Cab and Chassis Trucks

ADOMANI
Zero-Emission Vehicles

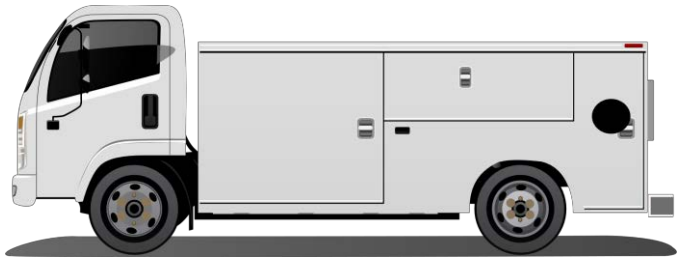
Imagine the Possibilities

Versatile Cab and Chassis

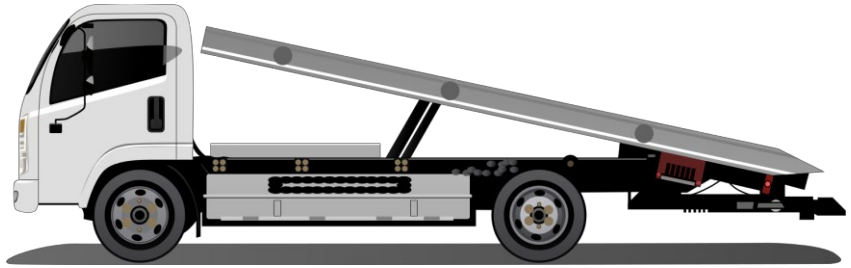
Box Truck



Stake and Bed



Utility/HVAC



Flatbed/Tow

ADOMANI Zero-Emission Vehicles

Cab and Chassis Specifications - Class 3 & 4

DIMENSIONS

Length	236 in
Width	74.4 in
Height	112.2 in
Curb Weight	5,622 lbs
GVWR	10,001 - 14,000 / 14,001 - 19,500

PERFORMANCE

Top Speed	62 mph
Range	130+ miles
Total Peak Power	161 hp
Peak Torque	756 lb-ft
Battery Capacity	92.5kWh
Gradeability (GVWR)	≥ 25%
Turning Radius	23 ft

BODY & CHASSIS

Wheelbase	129.9 in.
Suspension	Leaf Spring
Hydraulic Brake System	ABS with Regenerative Braking
Front Brakes	Disk Brakes
Rear Brakes	Drum Brakes

OPTIONAL CARGO BOX

Drive	RWD
Single Motor	Synchronous Permanent Magnet
Motor Cooling	Liquid Cooling
Capacity / Battery Chemistry	90.8 kWh / NMC-Blended Li-i
On-Board Charger	6.6 kW (Overnight Charging)
Charger Type	J1772 Level 2v

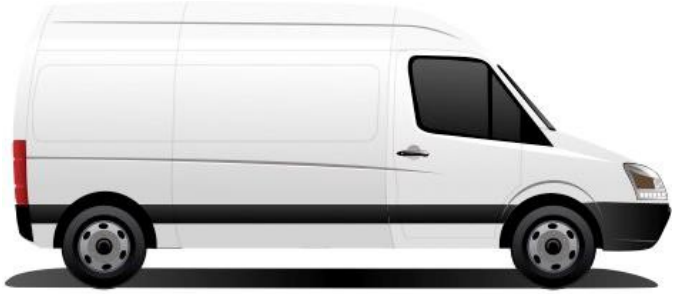
ADOMANI
Zero-Emission Vehicles

All-Electric Vans and Cutaways

ADOMANI
Zero-Emission Vehicles

Imagine the Possibilities

Versatile Cutaway

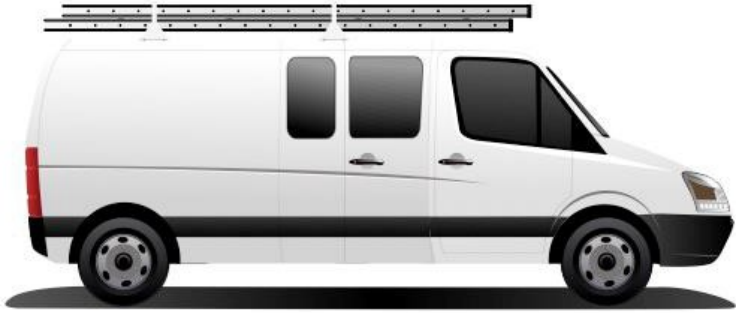


High Top Logistics Van

Low Top Logistics Van

Short Rail Bed

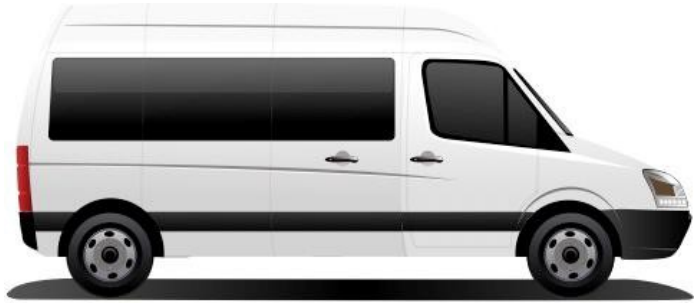
Utility/HVAC



Utility Van with Extra Passenger Seating

ADOMANI
Zero-Emission Vehicles

Imagine the Possibilities



Passenger Van

Animal Service Van

Emergency Vehicle

Box/Food Delivery

ADOMANI Zero-Emission Vehicles

Cutaway Specifications*

DIMENSIONS

Length	235 in
Width	79.5 in
Height	104 in
Curb Weight	6,195 lbs
GVWR	10,001 - 14,000 / 14,001 - 19,500
Cargo Volume	399 ft_3

PERFORMANCE

Top Speed	62 mph
Range	130+ miles
Total Peak Power	181 hp
Gradeability (GVWR)	≥ 20%
Turning Radius	23 ft

BODY & CHASSIS

Body Construction	Unibody
Front Suspension	Independent
Rear Suspension	Leaf Spring
Hydraulic Brake System	ABS with Regenerative Braking
Front Brakes	Disk Brakes
Rear Brakes	Drum Brakes
Tire Size	215/75R16LTv

MECHANICAL

Drive	RWD
Single Motor	Synchronous Permanent Magnet
Motor Cooling	Liquid Cooling
Capacity / Battery Chemistry	90.8 kWh / NMC-Blended Li-i
On-Board Charger	6.6 kW (Overnight Charging)
Charger Type	J1772 Level 2v

ADOMANI
Zero-Emission Vehicles

Neighborhood Electric Vehicle (NEV)

ADOMANI
Zero-Emission Vehicles

NEV Features & Specifications

MARKET SEGMENTS

Colleges/Universities

Shopping Malls

Ports

Retirement Communities

Parks & Recreation

Warehouses/Logistics

Municipalities

Apartment Complexes

Business Campuses/Parks

Retail Centers

FEATURES

- Climate control
- Power door locks and windows
- Front bucket seats
- Fold-down rear bench seats
- Seat belts
- Windshield wipers
- Backup camera
- Turn signals
- Radio & multi-media center
- Combination LED/halogen headlights and LED taillights
- Aluminum wheels
- Available colors: black, gold, silver, red, yellow, metallic, navy, and pearl white.

SPECIFICATIONS

Max range: Up to 50 miles

Max speed: Up to 25 mph

AC Input: 120v household outlet

Charging time: 4-12 hours

Seats: 4

Curb weight: 1,782 lbs

Cargo capacity: 22 cu ft. with rear folded seats

Ground clearance: 6 in.

Electric motor: 5kW AC induction

Turning radius: 13 ft.

Battery type: Maintenance free lead-acid, Lithium-Ion

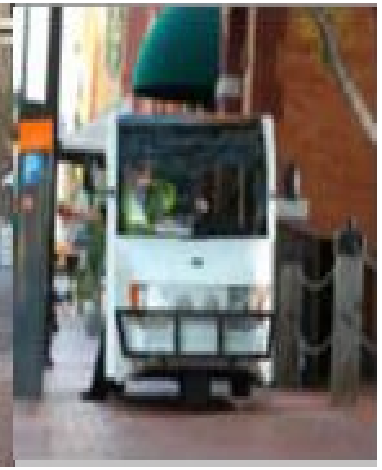
Braking system: Vacuum-assisted hydraulic front disc/rear drum

Independent front suspension

Multi-link solid axle rear suspension

ADOMANI
Zero-Emission Vehicles

FireFly



FireFly Market Applications

Parking Enforcement
Maintenance
Universities
Government

Security
Military Bases
Airport Services

Parks & Recreation
Shopping Malls
Ports

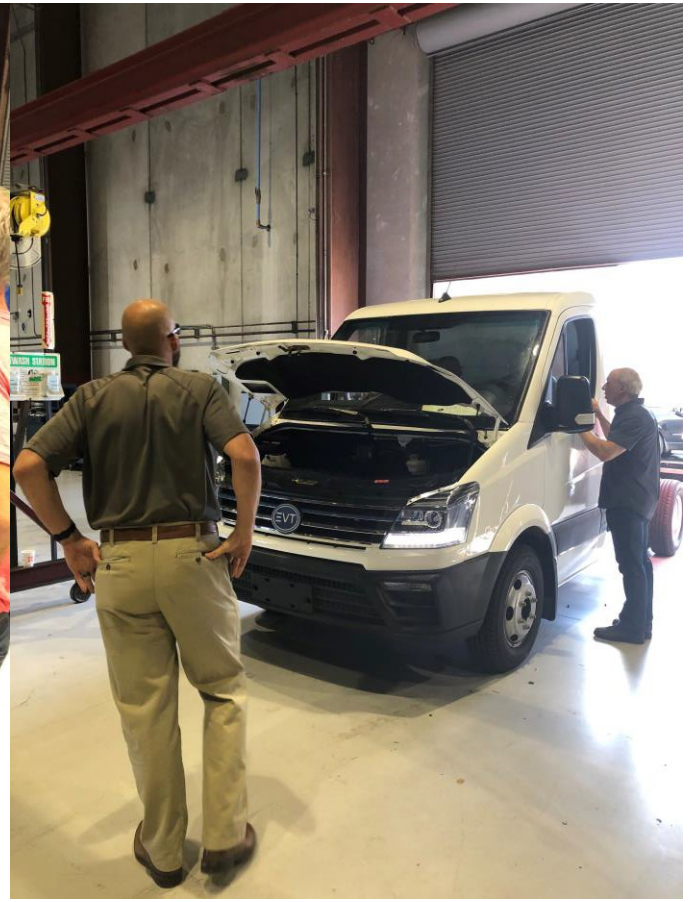
Package Delivery
Warehouses
Urban Services

Last Mile Delivery

Refuse/Trash Compactor

ADOMANI
Zero-Emission Vehicles

City of Orlando-Orlando,FL



ADOMANI
Zero-Emission Vehicles

SnowCap Community Charities Portland, OR

ADOMANI
Zero-Emission Vehicles

Pittsburgh, PA

Columbus, Ohio

Cape Canaveral, FL

San Joaquin Valley, CA

Gilbert, AZ

Burlington, VT

Jacksonville, FL

Jersey City, NJ

Minneapolis, MN

Florida Energy Summit-Tampa, FL

Seattle, WA

San Joaquin, CA

Corona, CA

Features & Benefits

SAVE ON COSTS

Funding options available but may vary by Federal, State, County, Air Quality District and or Municipality. "EPA's Office of Air and Radiation (OAR) announces competitive funding announcements for projects and programs relating to air quality, transportation, climate change, indoor air and other related topics."

Example: San Joaquin Valley currently has up to $80,000 available for Zero Emission Vehicles replacement. (5/2020)

Switching to all-electric means lowering your total cost of ownership by reducing operating, maintenance, and fuel costs.

Estimated first year maintenance cost savings are expected to be $2,000-$4,000 / year; $4,000-$6,000 / year thereafter.

TCO Models available from DOE and/or Adomani Sales

PRESERVE THE ENVIRONMENT

Converting fleets to electric also helps providers stay compliant with current and potential future local, state, and federal environmental and emission regulations.

Conventional gasoline vehicle emissions are produced when petroleum is extracted from the ground, refined to gasoline, distributed to stations, and burned in vehicles. Like direct emissions, life cycle emissions include a variety of harmful pollutants and GHGs.

Charges from Level 2 Standard J1772 plug for 6.6 kW overnight charger.

Barrier between Cargo and Driver area prevents contamination.

Truck has two speed motor for larger capacity

Class 4 cab over chassis electric vehicle can tow a trailer with restrictions. Loaded with a combined weight not to exceed 7500 lbs. GCW total cargo and trailer weight, and the vehicle bed loaded w

ith a maximum of 2,000 lbs. of cargo, at the same time and operated on local or surface roads towing with speeds recommended not to exceed 40 mph for short distances 10-15 miles.

ADOMANI
Zero-Emission Vehicles

A Domani

Until Tomorrow!

*"Never put off **until tomorrow** what you can do today."*

- Benjamin Franklin

Kevin Myose
kmyose@sjgov.org
209.468.3104

- FLEET MANAGER SAN JOAQUIN COUNTY CA
- 39 YEARS AUTOMOTIVE EXPERIENCE
- 26 YEARS IN GOVERNMENT FLEET
- FLEET LEADER IN IMPLEMENTATION OF NUMEROUS FLEET TECHNOLOGIES
- 100 BEST FLEETS TOP 40 2018
- GREEN FLEET AWARDS TOP 50 2018
- MBA AND BBA NATIONAL UNIVERSITY

NC CLEAN ENERGY TECHNOLOGY CENTER

100 BEST FLEETS
Green Fleet Awards™

SAN JOAQUIN COUNTY
Greatness grows here.

Special Merit in the Application Content

Standout Practice and Innovation Award

- **San Joaquin County California**

for its Right Typing Practices

SUSTAINABLE FLEET TECHNOLOGY
VIRTUAL CONFERENCE 2020

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100 BEST FLEETS

Right Typing and Solar EV Charging

SAN JOAQUIN COUNTY
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Right Typing Prisoner Transport

MCI
60 Prisoner Bus
8 Separations

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Right Typing Prisoner Transport

Ford Transit 350
13 Prisoner Bus
6 separations

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Right Typing Prisoner Transport

Honda Odyssey
4 Prisoner Van
4 Separations

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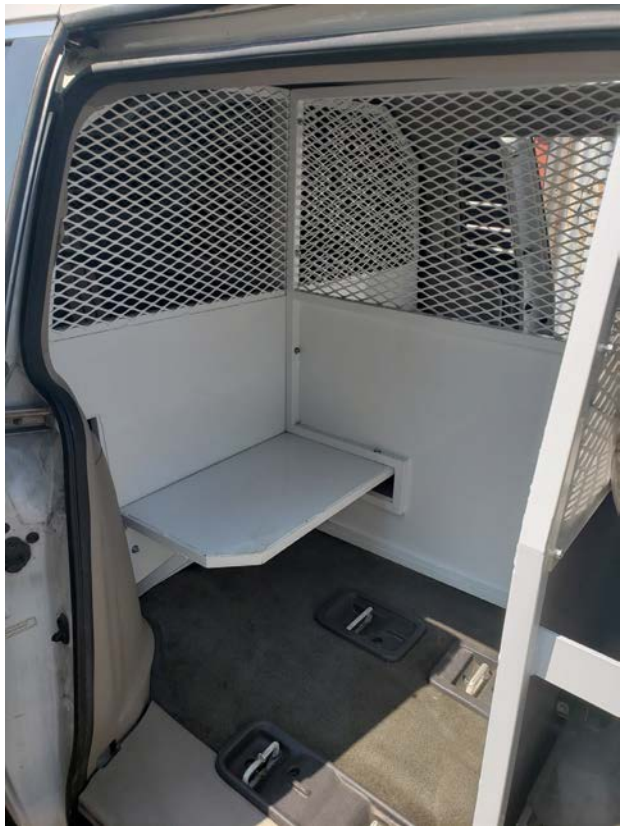
Right Typing Prisoner Transport



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Solar EV Charger

7.2kW L2, 4.1kW PV Array, 4.8kW Controller, 43kWh Storage, WiFi

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Thank You!

San Joaquin County California

Kevin Myose- Fleet Manager

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(209) 468-3104

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Green Fleet Awards™ 100 BEST FLEETS

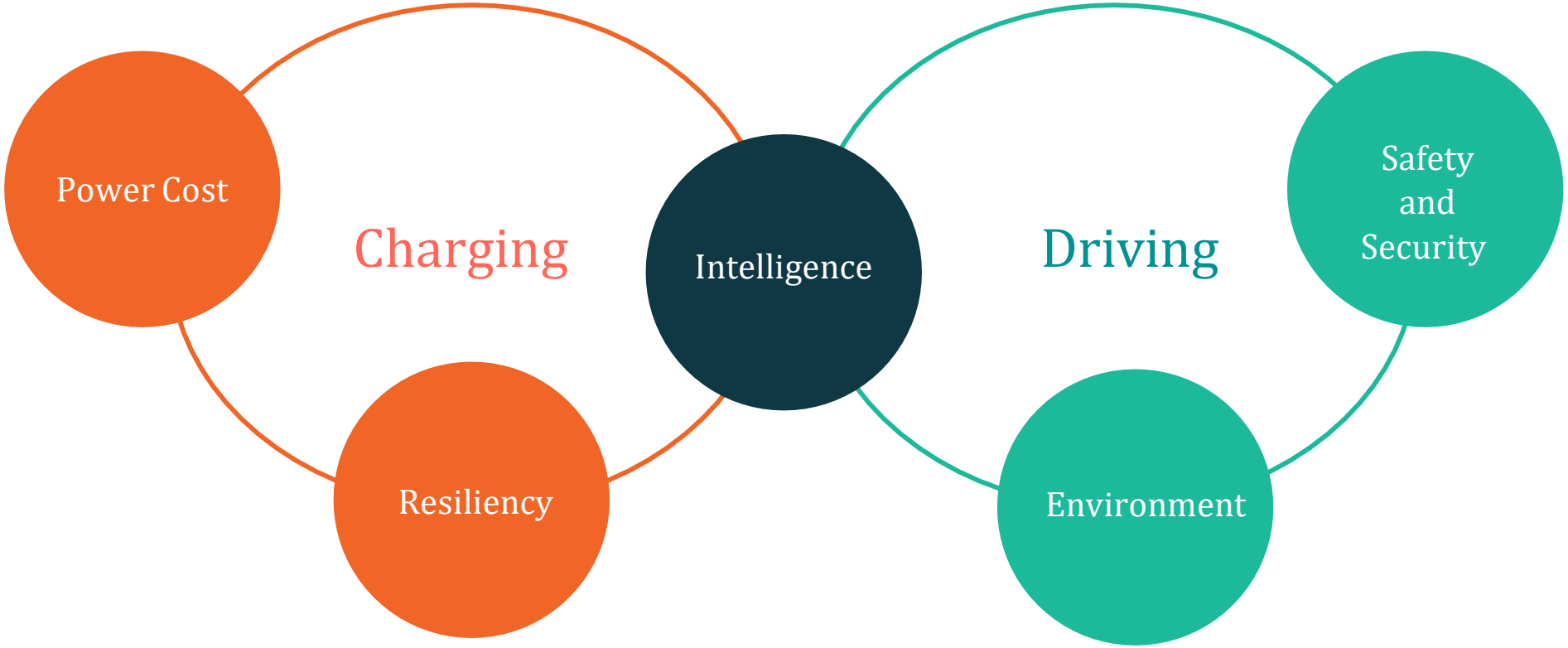
SAN JOAQUIN COUNTY Greatness grows here.

Sass Peress
sass@isunenergy.com
514-909-5047

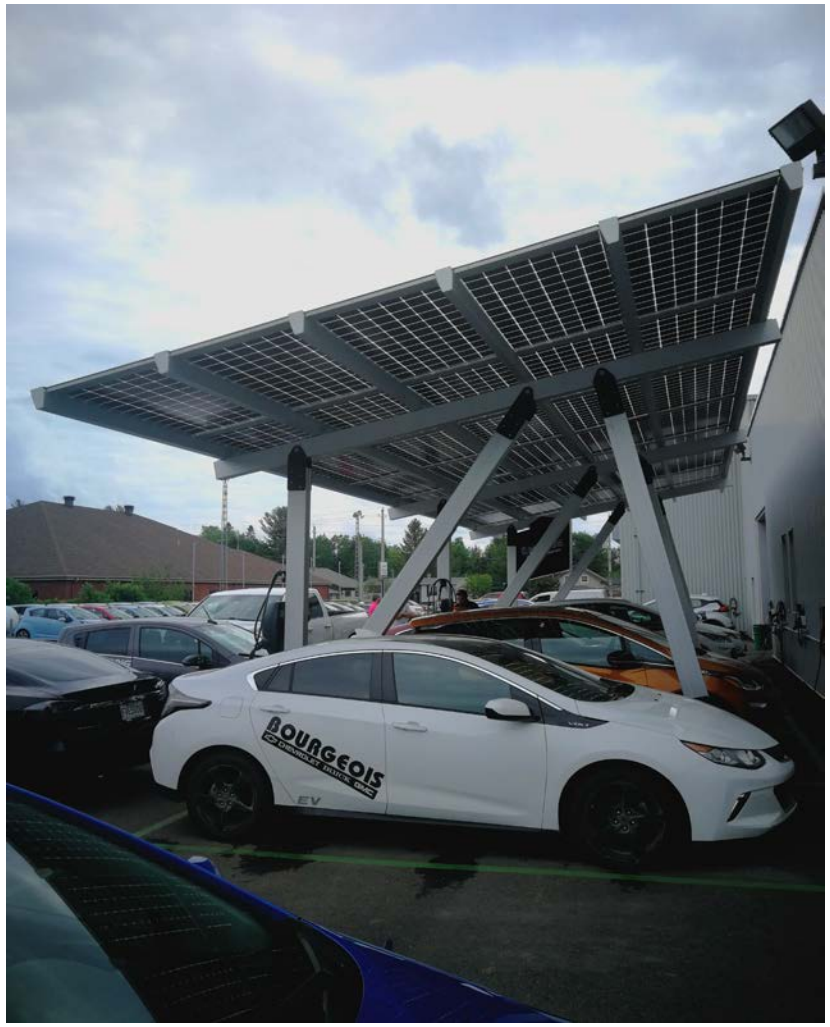
- CEO of iSun Energy & Renewable Energy Ambassador
- High-energy, innovation architect with achievements in global renewable energy product development and marketing, public company leadership and community involvement
- Passionate champion of renewable energy and clean mobility since launching ICP Solar in 1988
- Founded Quebec's first ever solar panel factory in 2001
- Currently enjoying true sustainable living in a fully hydro-electric and wind powered home
- Assisted in Tesla's design of their own solar canopy for their SuperChargers
- Involved daily in the electric vehicle communities both on and offline

#thinkbeyondthebarrel

A fleet goes beyond the vehicle…



Optimize your fleet charging for…



CARBON FREEDOM

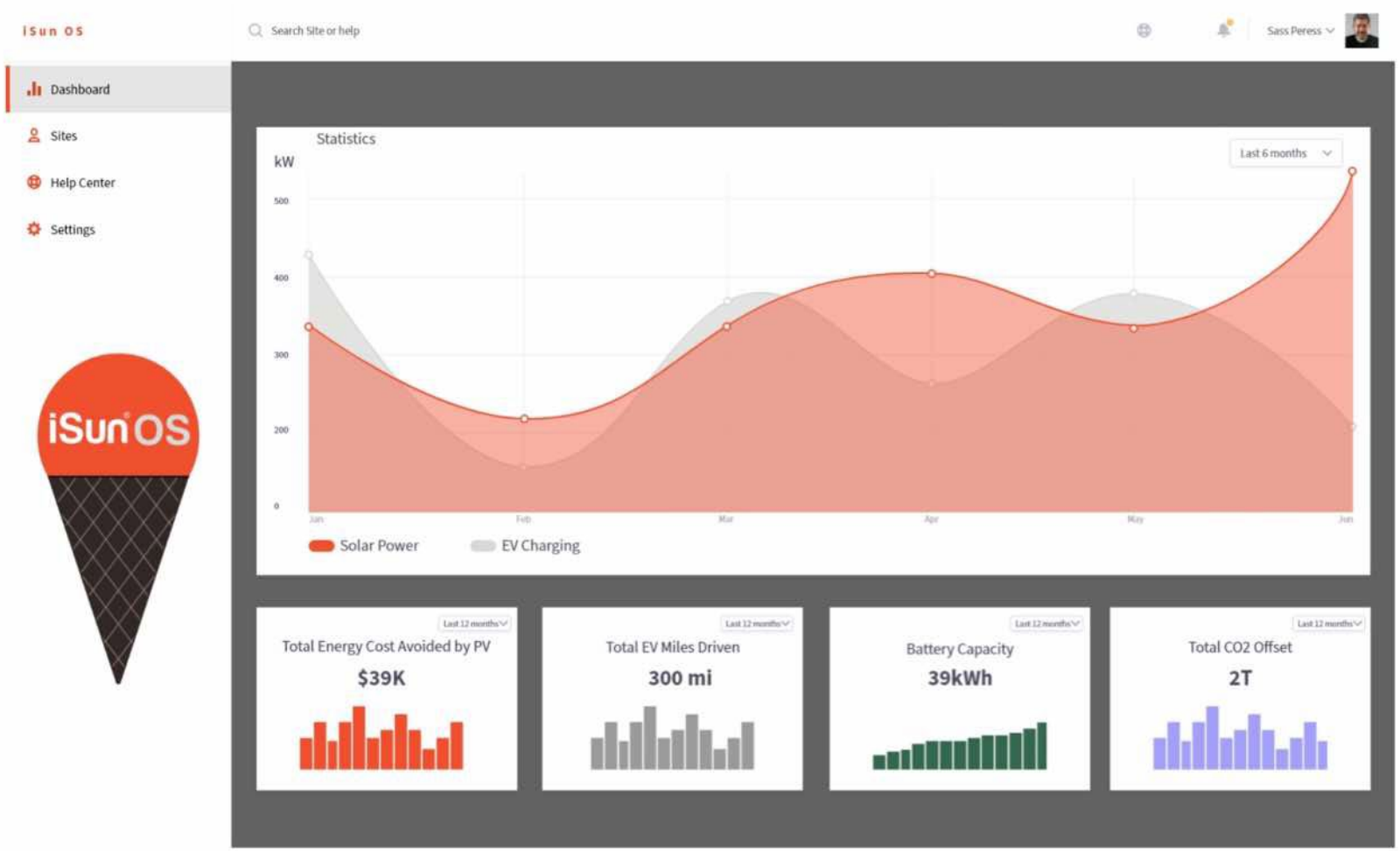
DATA CAPTURE

RESILIENCY

FLEXIBILITY

INTEROPERABILITY

…make it easy and smart



Key characteristics of EV charging best practices

Resilient

Scalable

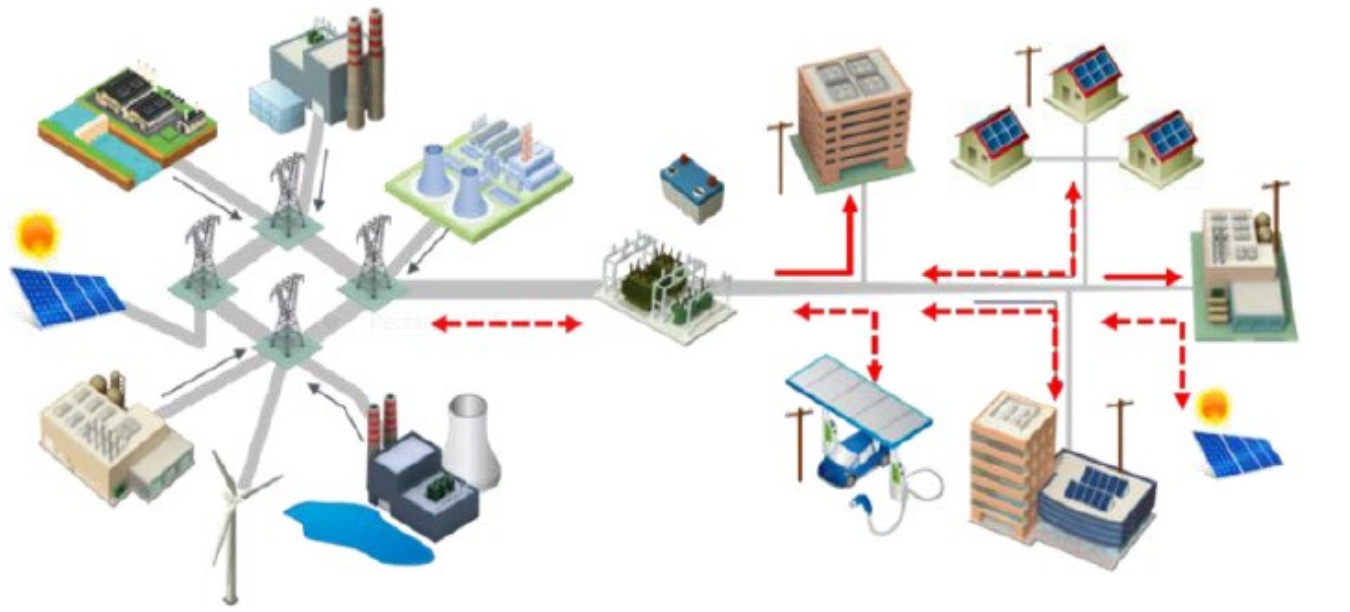
Branding

Intelligent

Clean

Low Maintenance

…with returns on your investment services



Generation-Transmission ⟷ Substation ⟷ Distribution System

…and returns on impact

Mothers &Others FOR CLEAN AIR

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Prenatal Exposure to PM2.5 Linked to Growth Delays After Birth

A study published in the journal Environment International shows that children born to women who are exposed to higher levels of fine particle air pollution (PM2.5) are more likely to have decreased weight and BMI at 4 years of age.

The study was conducted in multiple cities in Spain as part of the Infancia y Medio Ambiente (INMA) study. Air pollution was assessed during all 3 trimesters of pregnancy, and during the child's first year of life. Children's birthweight and length, and height and weight at 4 years old, were measured.

The results showed lower weight at 4 years of age for children whose mothers had higher PM2.5 exposure during the first trimester. The researchers adjusted for air pollution exposure in the other trimesters of pregnancy


ROI
IS NOW
RETURN ON IMPACT
iSun

The 100 Best Fleets in the Americas

Tom C. Johnson,
author of *Green Fleet Awards*™
and *100 Best Fleets in the Americas*™

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San Francisco, CA 94131
www.the100best.com
415-285-8391 | tom@the100best.net

City of Chicago

Green Fleet Award Winners 2020

- 50 Genentech Inc.
- 49 City of Hillsboro OR

- 48 City of Orlando FL

Green Fleet Award Winners 2020

- 47 Prince George's County MD

- 46 City of Birmingham AL
- 45 Stark Area Regional Transit Authority OH

Green Fleet Award Winners 2020

- 44 State of Delaware
- 43 University of Virginia

- 42 Knoxville Utilities Board

Green Fleet Award Winners 2020

- 41 City of Raleigh NC
- 40 City of Tallahassee FL

Green Fleet Award Winners 2020

- 39 South Jersey Gas Company

- 38 West Valley Construction CA

Green Fleet Award Winners 2020

- 37 University of California, Los Angeles

Green Fleet Award Winners 2020

- 36 City of Fort Lauderdale FL

- 35 Prince William County VA

Green Fleet Award Winners 2020

- 35 City of Madison WI

- 33 City of Tulsa OK
- 32 City of Phoenix AZ

Green Fleet Award Winners 2020

- 31 City of San Diego CA

- 30 NYC Department of Correction NY
- 29 Salt River Project AZ

Green Fleet Award Winners 2020

- 28 City of Oakland CA
- 27 New York City Police Department NY
- 26 City of Charlotte NC
- 25 King County WA
- 24 City Furniture FL

Green Fleet Award Winners 2020

- 23 Miami-Dade County FL

- 22 Ruan Transportation Management Systems IA
- 21 City of Kansas City MO

Green Fleet Award Winners 2020

- 20 Town of Cary NC
- 19 University of California, Davis

- 18 Alameda County CA

Green Fleet Award Winners 2020

- 17 US Air Force 441 VSCOS VA
- 16 City of Seattle WA
- 15 University of California, San Diego
- 14 City of Long Beach CA

Green Fleet Award Winners 2020

- 13 City of Durham NC

Green Fleet Award Winners 2020

- 12 CPS Energy, San Antonio TX

Green Fleet Award Winners 2020

- 11 Los Angeles County Sanitation CA

Green Fleet Award Winners 2020

- 10 University of California, Irvine

Best University or College Fleet Merit AWARD

University of California at Irvine

Amazing diesel reduction from 126K to 21K gallons from 2018 to 2019 through use of electric and hydrogen shuttle buses

UCI's 20 all-electric shuttle buses and hydrogen fuel cell bus primarily transports 36,032 students thru campus

Green Fleet Award Winners 2020

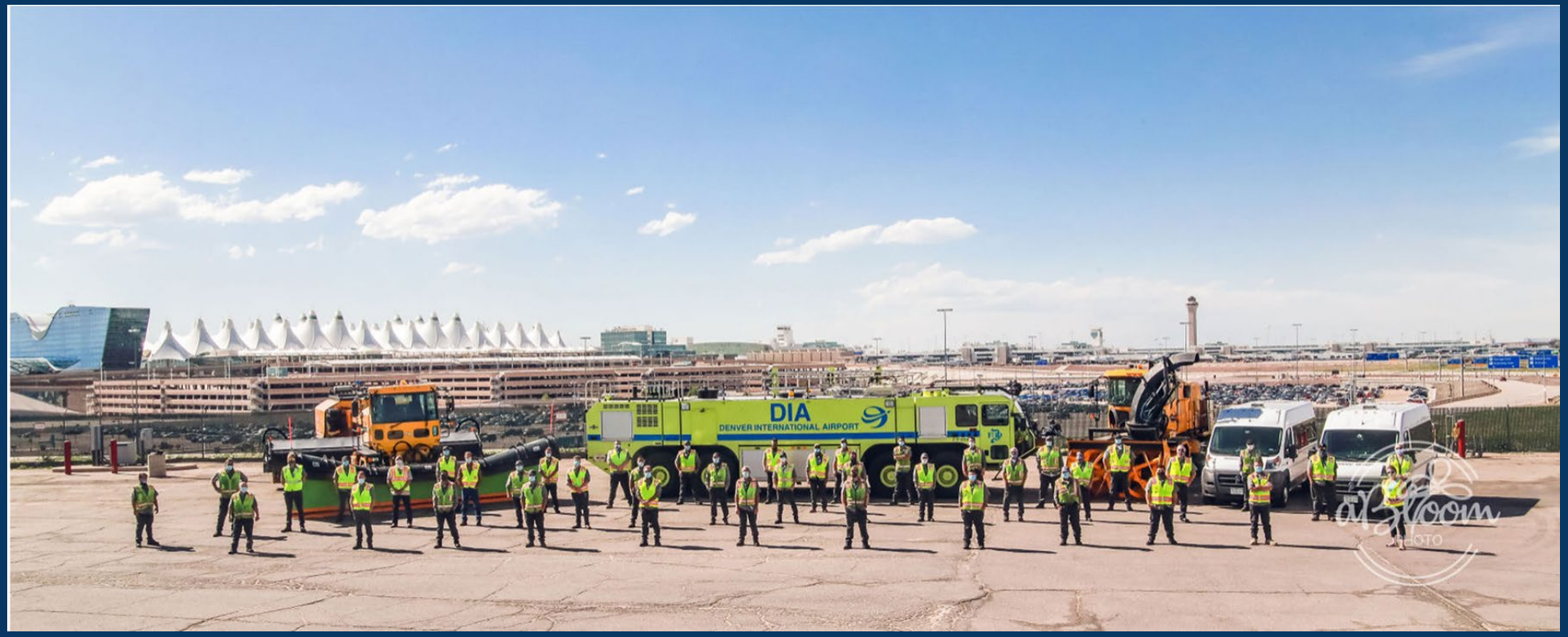
- 9 County of San Joaquin CA
- 8 City of New York - DCAS NY
- 7 Las Vegas Valley Water District NV
- 6 DeKalb County GA
- 5 The Port Authority of New York & New Jersey
- 4 City of Riverside CA

Green Fleet Award Winners 2020

- 3 City of Dublin OH

Green Fleet Award Winners 2020

- 2 Denver International Airport CO



Green Fleet Award Winners 2020

- 1 City of Fort Collins CO

Honorable Mention 2020

(Alphabetical Order)

- Alberta Gaming Liquor & Cannabis
- Argent Materials Inc. CA
- BuildSense Inc. NC
- Chesterfield County VA
- City of Atlanta GA (Dept. of Watershed
- City of Chicago IL
- City of Roanoke VA
- EPES Transportation LLC NC
- NCDOT Rail Division
- Orange County NC
- Riverside County CA
- Town of Greenwich CT

NC STATE UNIVERSITY

SUSTAINABLE FLEET TECHNOLOGY

VIRTUAL CONFERENCE 2020

Session 6: The Green Fleet Award 2020 Winners Announcement

September 09, 2020

NC CLEAN ENERGY TECHNOLOGY CENTER

100 BEST FLEETS

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION