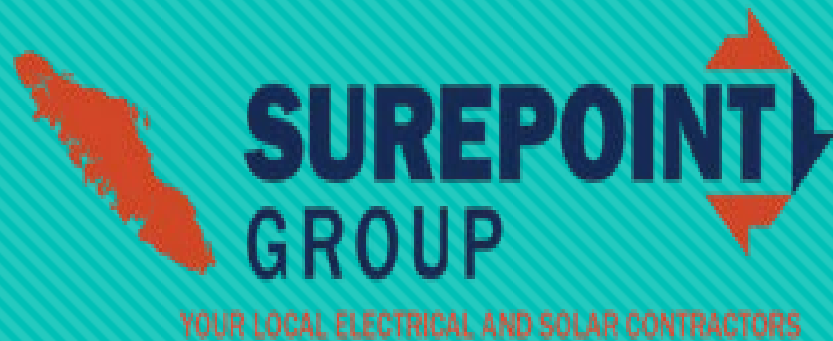


# J. Thackray & Associates



**ANDREW GUDMUNDSETH**, REGIONAL MANAGER, SUREPOINT VI

**&**

**JAMES THACKRAY**, PRINCIPAL, J. THACKRAY AND ASSOCIATES

# How did we get here?

- Lower Mainland Local Government Association Spring Conference and Tradeshow 3 – 5 May 2023, Harrison Hotsprings Resort
- Empire Hydrogen Energy Systems Inc. & Surepoint VI shared a tradeshow booth to showcase climate adaption solutions in solar, EV's and hydrogen injection systems for diesel engines
- A lot of interest was generated about each of these companies
- Questions: "Why aren't more companies engaging in this space?"
- Specific discussions around EV chargers ensued

# How did we get here?

- **LMLGA TRADSHOW CONNECTION WITH AVICC PRESIDENT**
- ***“MOVED: Director Beckett SECONDED: Director Cote THAT the ACRD Board of Directors instruct staff to investigate grants available to install EV charging stations throughout the Region and report back to the Board by the second meeting in June 2023.”***

# J. THACKRAY AND ASSOCIATES

My passion is to promote collaboration and connect government with high integrity market solutions to transition to a low carbon future. J. Thackray provides:

- CLIMATE ADATION STRATEGY
- CLIMATE ACTION PLANS
- FUNDING & GRANTS SUPPORT
- RESEARCH
- PRACTICAL TECHNOLOGY FOR EXISTING DIESEL FLEETS
- FIND SYNERGIES FOR FLEET EMISSION REDUCTION SOLUTIONS, EV CHARGERS AND SOLAR INFRASTRUCTURE

# J. THACKRAY AND ASSOCIATES

## PROMOTE 7 STEPS IN ADAPTION PLANNING

- Awareness of climate change
- Awareness of the need to adapt
- Mobilise resources
- Build adaption capacity
- Implement targeted adaption actions
- Measure and evaluate progress
- Learning and sharing knowledge

Source: Warren and Lemmen (2014).

# J. THACKRAY AND ASSOCIATES

## Hydrogen Injection for Diesel Engines

- US EPA Certified Hydrogen Systems mounted on any diesel engine (e.g., trucks, tractors, generators and more)
- Some big rigs rack up fuel bills of \$10,000 per month
- Cut that cost by 10% - 20%, increase engine life, and reduce DPF regen cycles at the same time



**EMPIRE** HYDROGEN  
ENERGY SYSTEMS INC





# J. THACKRAY AND ASSOCIATES

## Hydrogen Injection for Diesel Engines

- Save 10% – 20% on fuel consumption
- Reduce CO<sub>2</sub> by up to 28%
- Cut NO<sub>x</sub> by up to 48%
- Cut Diesel Particulate by up to 2/3
- BC Trucking Association \$4,000 Rebate
- 6 – 10 MONTH PAYBACK



**EMPIRE**

HYDROGEN  
ENERGY SYSTEMS INC



# PROJECTS



- Town of Creston
- City of Edmonton
- City of Richmond
- Sobey's Vancouver Island
- BC Ferries



# PROPOSED STRATEGY



# ABOUT US



- Surepoint VI is your local electrical contractor specializing in renewable energy, industrial applications, residential, commercial installations & services. Located on beautiful Vancouver Island, we strive to provide affordable and effective electrical installations for our clients

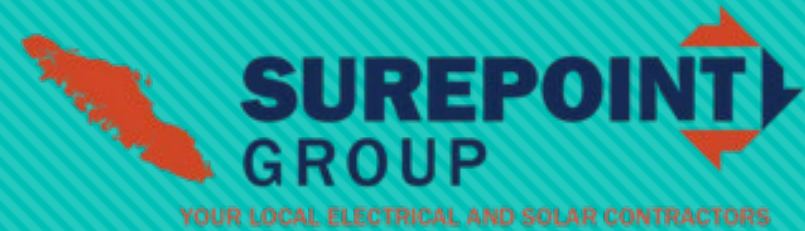


# CLIMATE ADAPTION SOLUTIONS



- Design, installation/commission, training and operation of grid-tied solar
- Solar with battery back-up (e.g., community buildings that double as emergency shelters)
- Carbon credit capturing support
- Design, installation/commissioning, training and operation of EV Chargers
- Federal Grants Support & Assistance

# VALUES



## ○ We Care

'We Care' demonstrates our intention to build a meaningful presence in our communities and how we care for the people we work with.

## ○ Live Safe

Safety is everyone's responsibility and that when we lead by example, we will achieve a safe today and tomorrow.

## ○ Honour Integrity

Knowing and doing the right things means we demonstrate our values in action every day. We walk the talk at Surepoint.

# VALUES



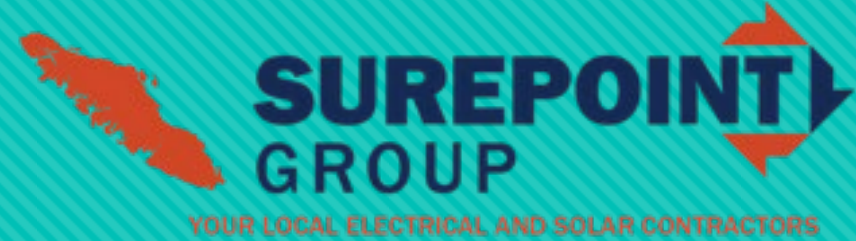
## ○ Committed to the Team

Fostering an inclusive workplace where all employees are treated with respect and dignity while celebrating our successes and challenges is vital to our team.

## ○ Have Fun & Create Joy

The strength in our organization is the strength in our collective knowledge and the sharing of that knowledge and experience while having fun and creating joy.

# PROJECTS



- MALAHAT FIRST NATION
- LAKE COWICHAN FIRST NATION
- COWICHAN VALLEY REGIONAL DISTRICT
- WE WAI KAI NATION
- PENELAKUT
- COWICHAN TRIBES





# STRATEGY AND VALUE PROPOSITION

- FIRST NATIONS and ACRD LEADERSHIP
  - Propose partnership model First Nations, ACRD & municipalities
  - Consider Engaging Surepoint/J. Thackray
- REGIONAL ELECTRIC HIGHWAY MARKETING & BRANDING CAMPAIGN LEVERAGING AND PROFILING FAST EV CHARGERS
- WORK WITH HIGHLY EXPERIENCED CLIMATE SOLUTIONS SERVICE PROVIDERS AND MUNICIPAL CONSULTANT
- DRIVE ECONOMIC DEVELOPMENT AND TOURISM ENHANCEMENT
- CONNECT COMMUNITIES SUSTAINABLY
- SUPPORT TO LEVERAGE STACKABLE FEDERAL AND CLEAN BC GRANTS
  - Up to \$ 2,000,000 per project for indigenous communities
  - Up to \$ 5,000,000 per project for local governments

# THANK YOU

# QUESTIONS

JAMES THACKRAY Tel: 250.951.2826  
Email: [james@empirehydrogen.com](mailto:james@empirehydrogen.com)

ANDREW GUDMUNDSETH Tel: 250.710.2760  
Email: [andrew.gudmundseth@surepoint.ca](mailto:andrew.gudmundseth@surepoint.ca)