

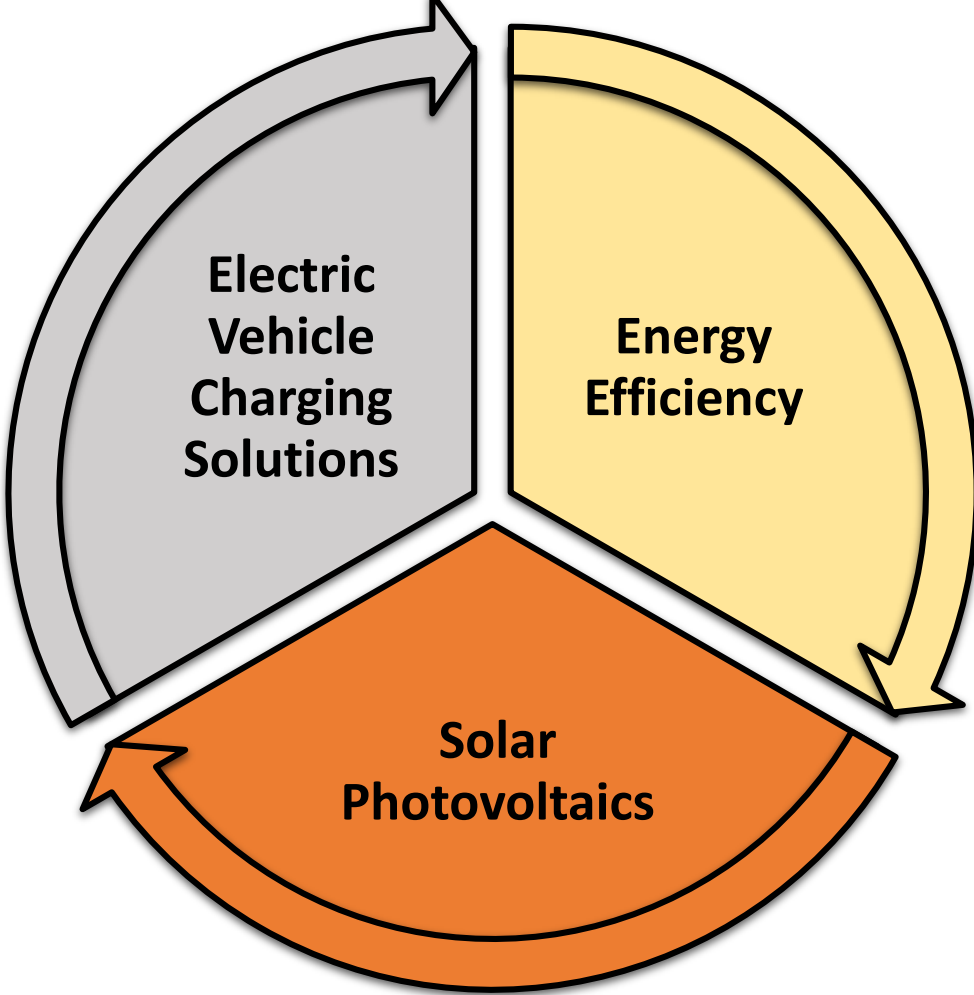


**CIELO
ELECTRIC**

Electric Vehicle Charging Solutions

**Presented by:
Sukhdeep Gill**

Key Services of Cielo Electric Ltd.



EV Charging “Plug” J1772

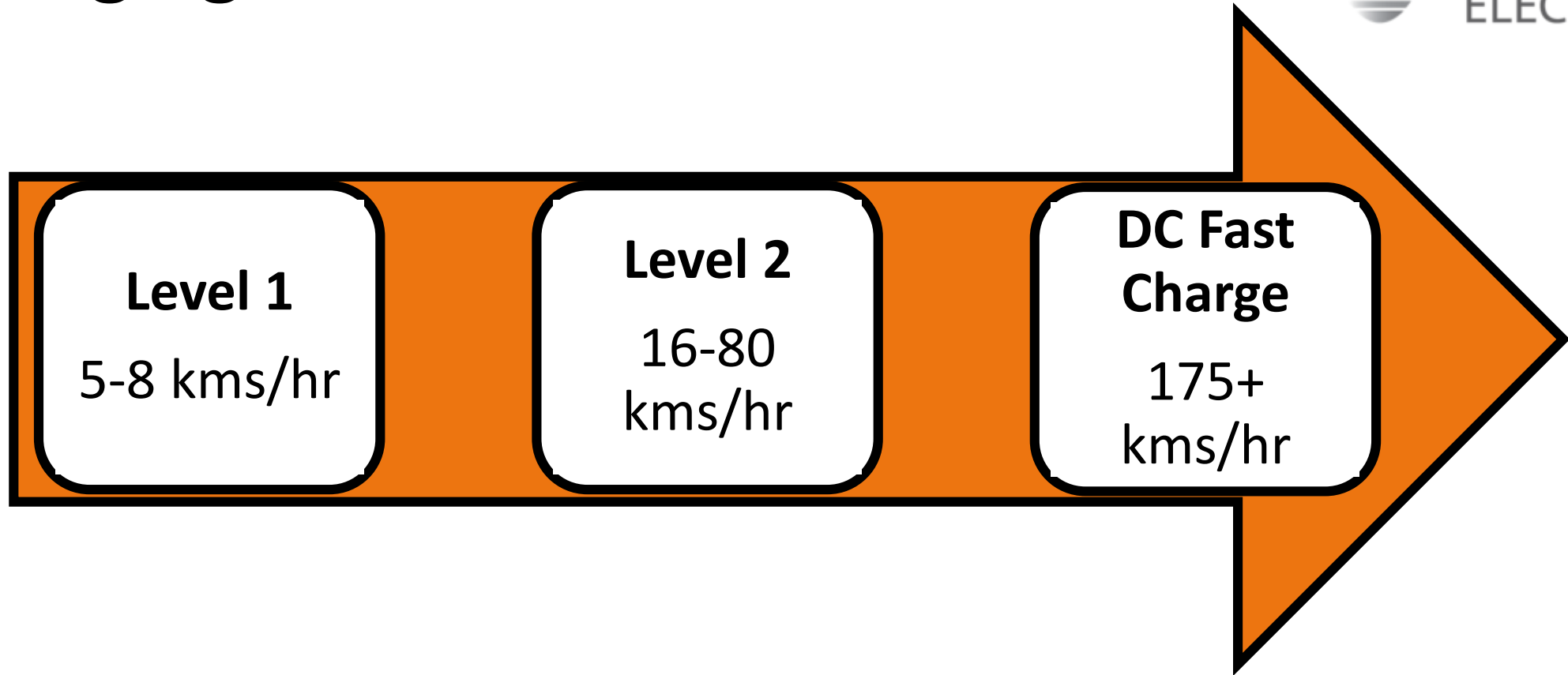


Developed by Society of Automotive Engineers

Used by all major car companies

**Includes safety features to protect drivers,
public and vehicle**

EV Charging Rates



EV Charging Factors



Type of Vehicle

- BEV or PHEV (Model)
- Battery Capacity
- Charging Limitations

Driving Needs

- Average Daily Driving
- Alternate Charging Options
- Dwell Time

Installation Cost Factors



Design

- Distance from Electrical Room
- Parkade Layout
- Route (coring/cutting?)
- Stall Turnover
- Future Allowance

Equipment

- Networked or Non-Networked
- Power Requirements
- Cellular Coverage

Networked Charging Stations



Networked Stations
Part of Charging Network via Internet

Communication Capabilities

Access Control

Billing Options

Display Screens for Communication

Power Sharing/Load Managed



*Estimated Costs

	AddEnergie	ChargePoint	SemaConnect
Cost*	\$ 3,500	\$ 4,200	\$ 4,000
Subscription Fees/Year	\$ 150	\$ 380	\$ 290

Non-Networked Charging Stations



Non-Networked Stations
Primary Function to Charge the Battery

Access Control

Billing Options (Additional Metering Required)

Lower Initial and Operating Cost vs Networked

Power Sharing



	ClipperCreek**	EVDuty**	Flo G5**
Cost*	\$ 900	\$ 965	\$ 1,200

*Estimated Costs

** Access control and/or Power Sharing Available

Cost Recovery Model



Time Based

- Varying rates based on time of day

Energy Based

- BCUC exemption required for re-sale of electricity

Hybrid

- Energy based until battery is full, then time based

Fixed Fee

- Fixed monthly fee

Incentive Programs



Source: Plug In BC

\$10.6 Million funded from the Province of BC over the next three years for CEV for BC™

Up to \$5,000 for you!
\$7.5 million will go to "point-of-sale incentives*", and dealer and sales staff incentives for electric and hydrogen fuel cell vehicles.

\$1.6 Million for developing charging and hydrogen fuelling infrastructure.

\$500,000 for training, research, development and public outreach.

\$1 Million to help "assist fleets" adopt electric vehicles.

*Program administered by the New Car Dealers Association of BC.

The infographic is a vertical stack of colored boxes. The top box is white with green text and icons for the Province of BC and a power button. The second box is green with white text and a clock icon. The third box is white with green text and a charging station icon. The fourth box is green with white text and a person icon. The fifth box is white with green text and a car icon.

Source: CEV for BC

Incentive Program (TBA)



MURBs

- 75% covered up to \$8,000

Workplace

- 50% covered up to \$25,000

SFHs

- 75% covered up to \$750

Conclusion



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SUKHDEEP GILL

Cielo Electric Ltd.



778-862-4109



cieloelectric

sukhdeep@cieloelectric.ca

www.cieloelectric.ca

Sky powered living.

