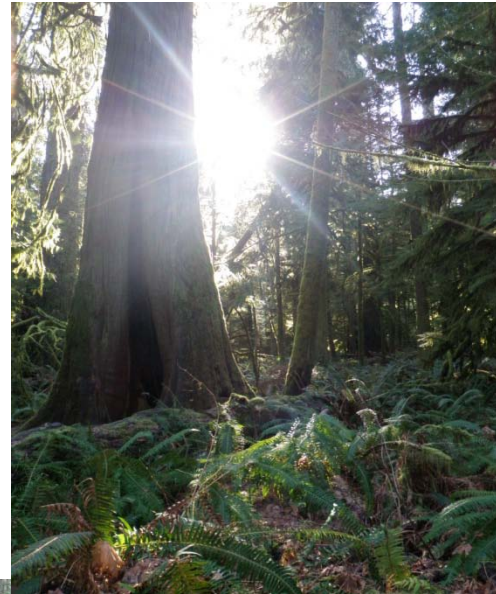


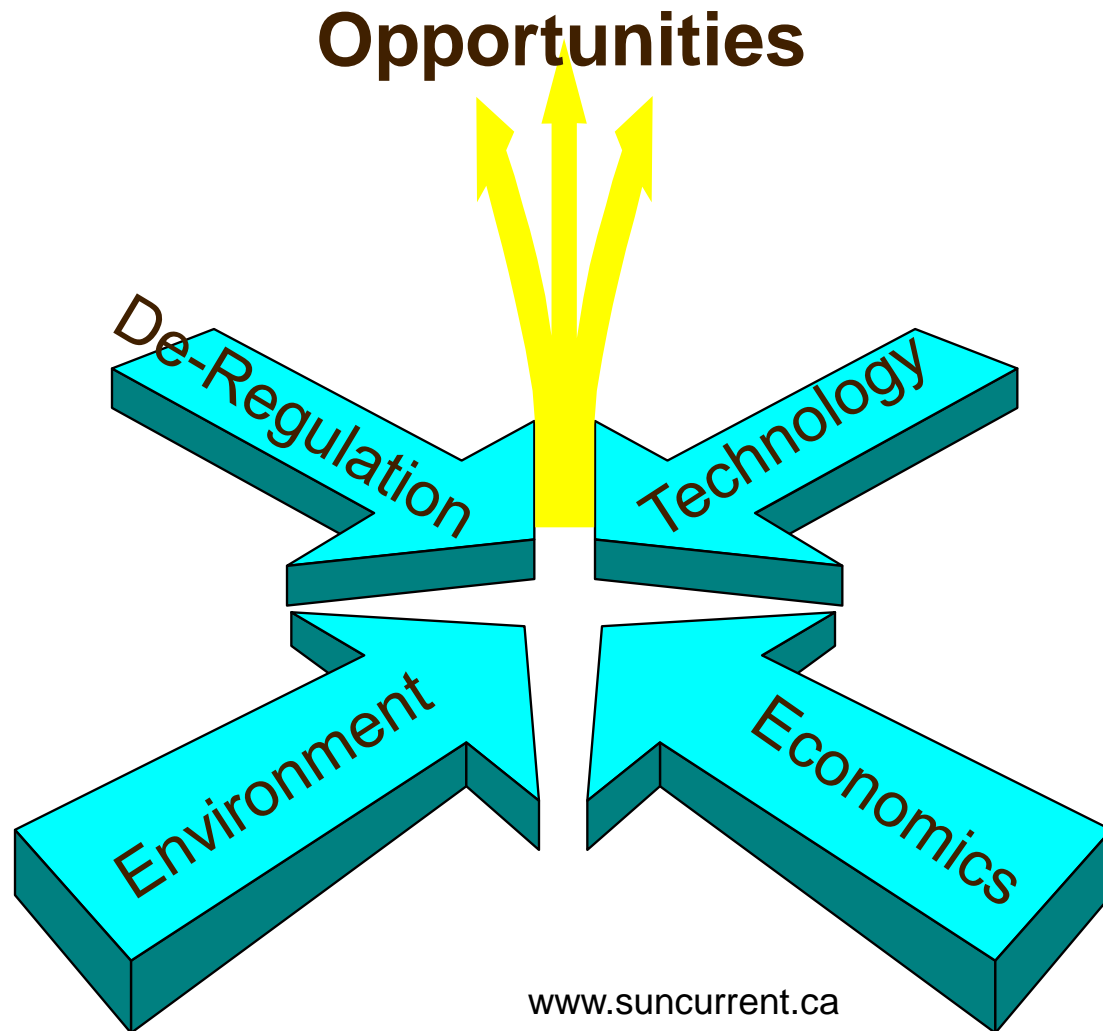
Modeling Bioenergy for the Clean Power Sector

Coastal Silviculture
Committee Workshop

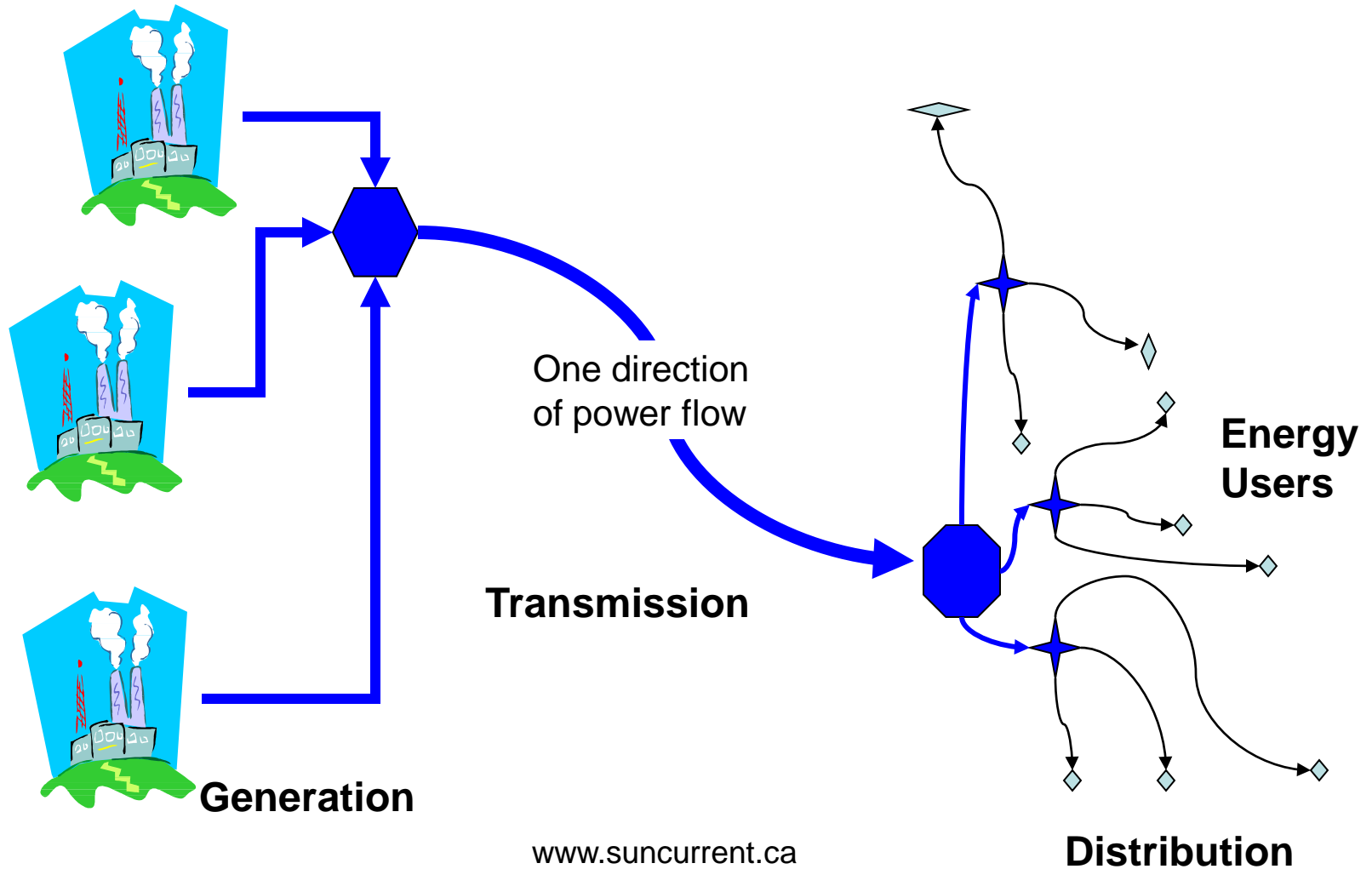
Presented by Paul Liddy
Managing Director
Cedar Road LFG Inc.



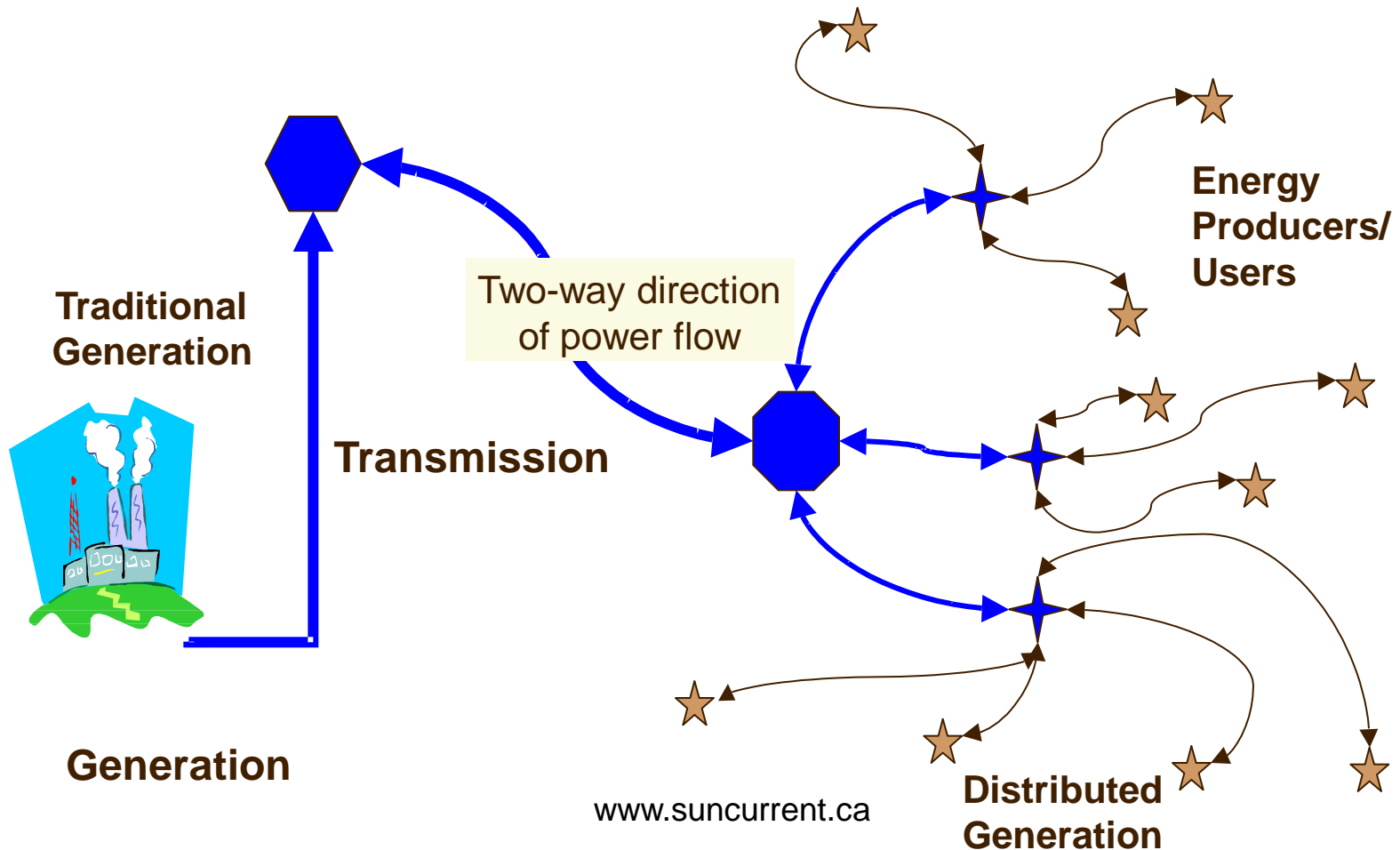
Converging Trends Create New Opportunities



Traditional Centralized Power



The Paradigm Shift



1978 - Design/build passive solar home initiation by fire (or lack there of)



1981 - Suncurrent - Start in construction Business.



1986 - The Black Hole: Commit free cash flow to alternatives for 20 years



www.suncurrent.ca

1991 – Lea Block, Phase 1 and 2
design / build, above standards



1994 - Establish Renewable Energy operations in small Island countries



1998 - Start-up Distributed Micro Utility with innovative CHP plant company





Suncurrent Industries Inc.
Building a Better Environment



2001 Eco- Efficiency Community Initiative



www.suncurrent.ca

Wind Water Pumpers: Improved Water Access



Walker Court 2001

Live/Work, CHP plant



2009 Commissioning Facility

- Cedar Road LFG Inc. is a clean power facility located at the Regional District of Nanaimo's landfill.
- We have a modular facility design that converts bio-gas into electricity
- The facility will build out in Phases, Phase One is in place with 1.3 MW of output for 3.6 million dollars
- Gas reserves will increase yearly, long contracts for gas supply and electrical sales assure cash flow



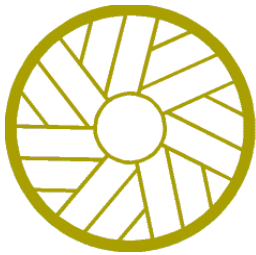
Government Policy

- Landfill Control and Capture requirement
 - Advanced GHG management and destruction
 - Odor and ground water control requirements
- Clean Energy Procurement, BC Energy Plan
 - BC Hydro , Standing Offer Program
 - Terasen Renewable Natural Gas program
- Carbon Tax
 - Cap and Trade timetable defined
 - Sector Program delivery, funded through tax

BC Hydro Standing Offer Program



- Attractive pricing
- Long term purchase
- > 10 MW eligibility
- Industrial / Forestry
compliment to existing
uses
- Diversifies feed stock and
wood waste output, value
stream
- Patience and
perseverance required
- Cap. Cost. Approx \$3 per
KW nameplate output

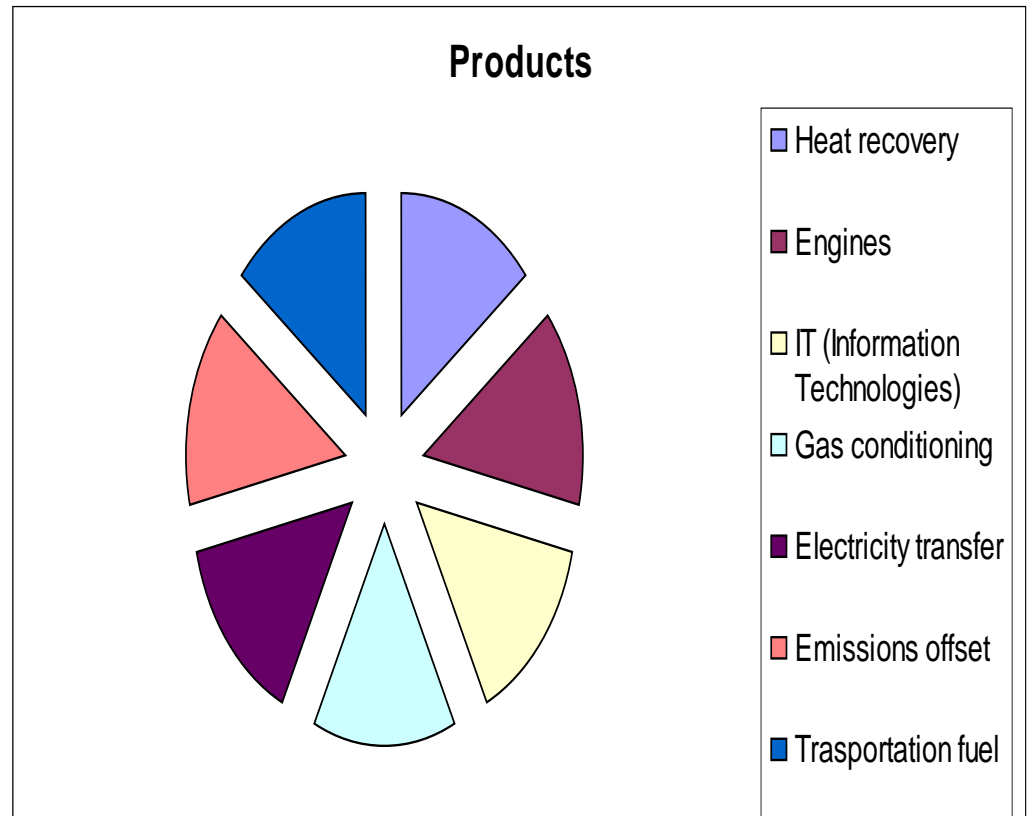


Cedar Road LFG Inc.

Developing Bio-energy Solutions

Sector Demonstration.

- Heat recovery.
- Power plant.
- IT modular interface
- Gas conditioning.
- Electricity transfer.
- Emissions offset.
- Transportation fuel.



Modeling Bioenergy for the Clean Power Sector

- Feedstock, source, reliability,
- Transportation costs
- Output monetization
- Technology risk
- Operational lifecycle costs
- Complimentary Uses

A Biomass Option

Turboden, ORC technology for
distributed energy generation



***Thank you for the
opportunity to present
to the Coastal
Silviculture
Workshop***

***Regards,
pliddy@suncurrent.ca***

