



Ontario's  
*Green Energy and Green  
Economy Act - 2009*

**Helix**  
**Synergy** INC.

**Energy in Synergy with Nature**

A brief shared in discussion with the  
Michigan Wind Working Group

By Winton Dahlström, President, Helix Synergy Inc./LLC.

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# Sustainable Energy

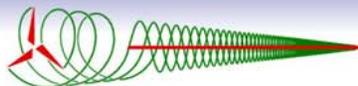
“...Back to the Future...”

A complete re-vamp is coming –  
We are in a crisis of ignorance and  
denial

“We are in a race against time...”

Hermann Scheer

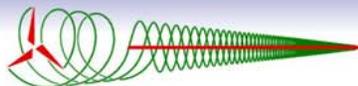
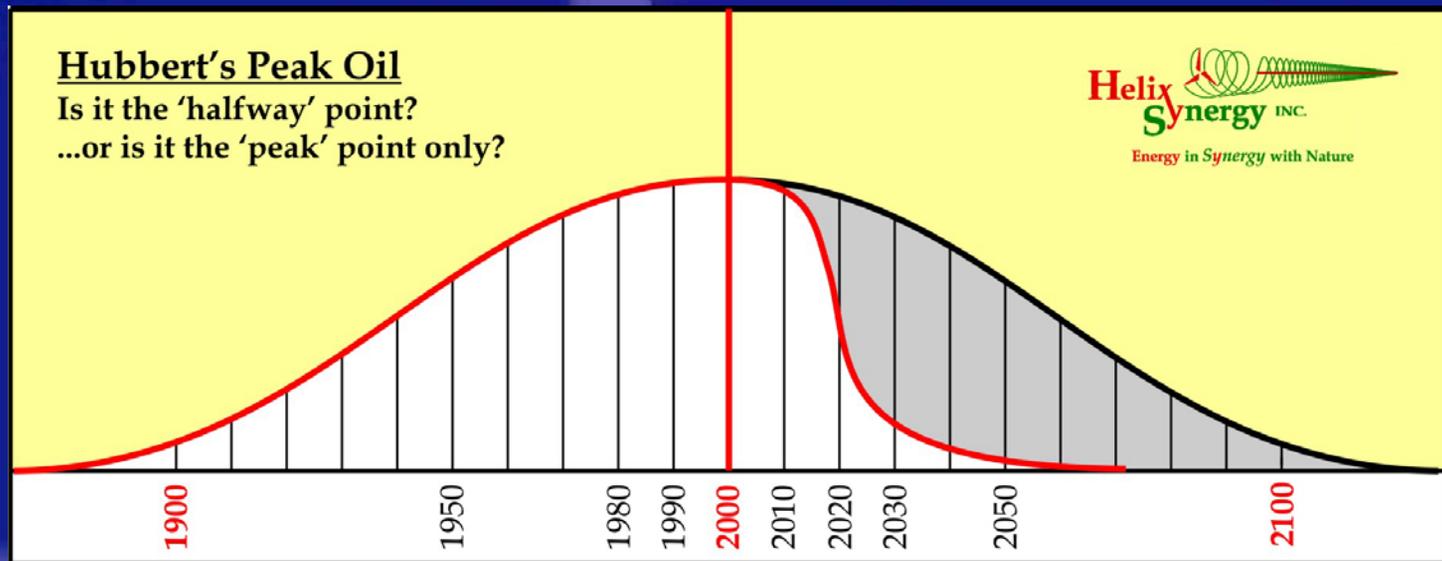
1944 - 2010



# Terminal Energy

“Bad news: Oil runs out...  
Good news: Oil runs out”

Hermann Scheer

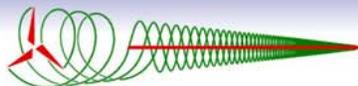


# The seven big world energy crises...all caused by the conventional (terminal) energy systems

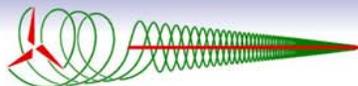
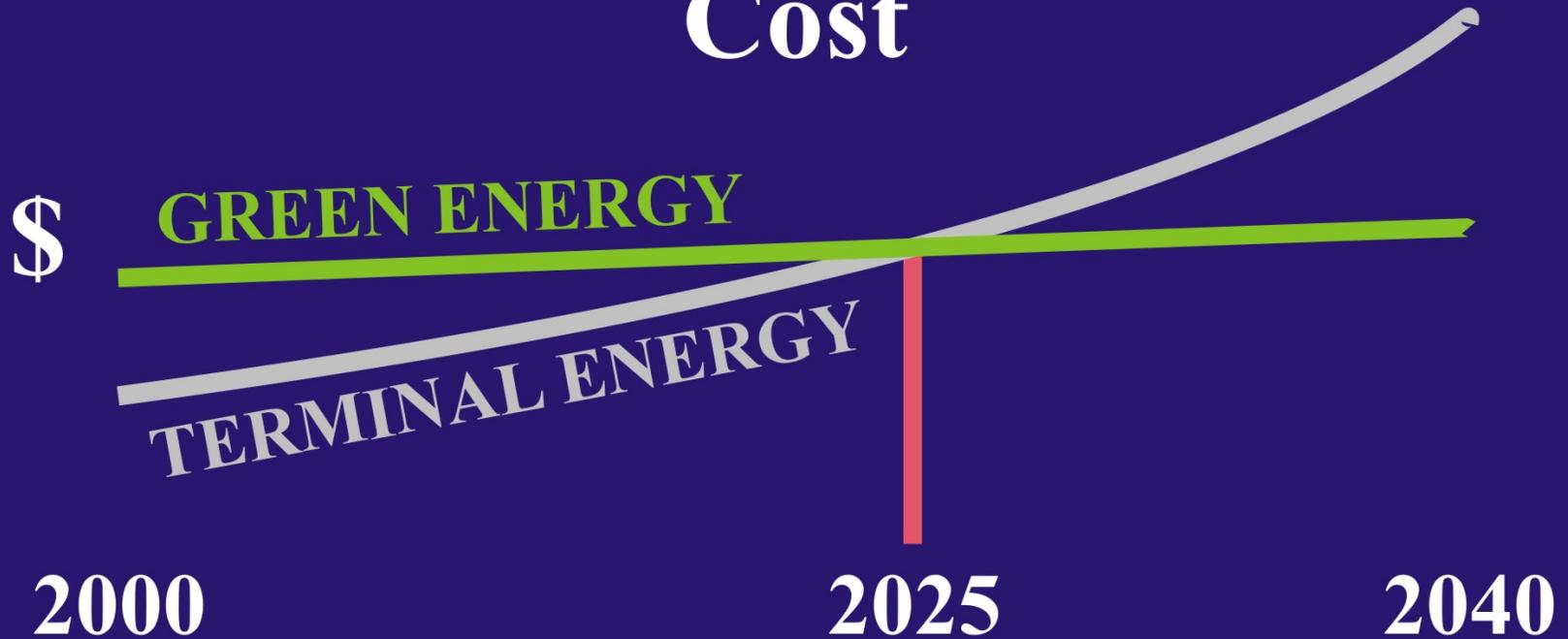
- Climate change crisis
- Energy availability crisis
- Third world energy deficit crisis
- Health crisis
- Nuclear proliferation crisis
- Water shortage crisis
- Agricultural soil loss crisis

...Hermann Scheer

[http://www.youtube.com/watch?v=w\\_KZ01ps6gI](http://www.youtube.com/watch?v=w_KZ01ps6gI)

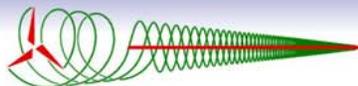


# Future Energy Cost



# Capital is needed...

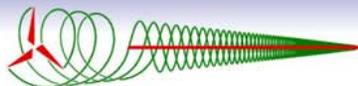
- Solid ROI – fixed, profitable price
- Long-term, standard contract
- Minimized risk – right to connect
- Mandatory content requirements
- Community entitlements/participation
- Community infrastructure



# Why a Feed-in Tariff

*It's all about money...*

Risk  
&  
R.O.I.



# Energy Market Structures

U.S.  
“FREE”  
Market  
Model

FIT  
“FEED-IN”  
Market  
Model

Price  
(Bids)

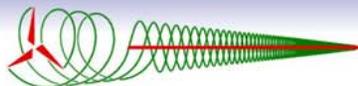
Free  
Price  
Risk

Fixed

Demand  
(RFP's)

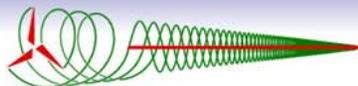
Fixed

Free  
Demand  
Risk



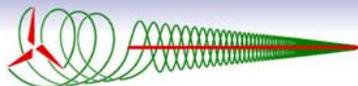
# Ontario FIT Attributes

- Single power purchaser - OPA
- OPG monopoly is excluded
- Right to connect
- Simplified, standardized contracts
- Zoning/Setbacks harmonized
- R.E. Facilitation Office
- Community incentives



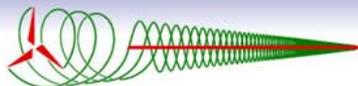
# Ontario FIT Attributes

- Periodic Reviews
- Minister of Energy has special powers
- Ontario manufactured content
- Streamlined approvals
- Standardized environmental assessment
- R.E. Facilitation Office
- Community price adder
- No caps on project size or voltage



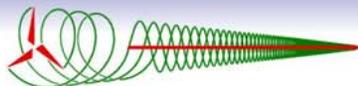
# Still needed

- Improved Right-to-Connect regulations
- Sell down setbacks & in-fill leasing
- Base mapping & standardized planning
- Community definitions
- Community “Corporation” design
- “Land Pooling” policy/regulations
- Infrastructure investment models



# FIT Summary

- Prices differentiated by technology
- Prices reflect actual costs + inflation
- Prices provide a reasonable ROI
- Transparency & harmonization
- Greater investment certainty – lower risk



Please call us...



Photography by Raffi Kudlac - Age 9. 13

