

**Manitoba Hydro
2017/18 & 2018/19 General Rate Application
To the Public Utilities Board**

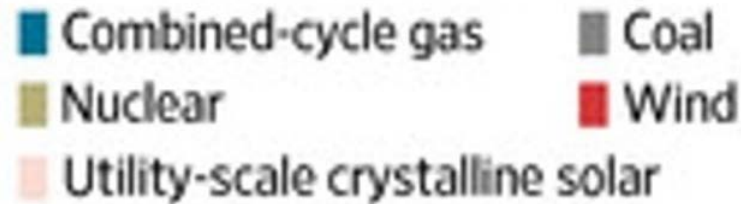
**Disruptive Influences Call for a
Nimble Approach to Planning**

**Dennis Woodford P.Eng.
For the Bipole III Coalition**

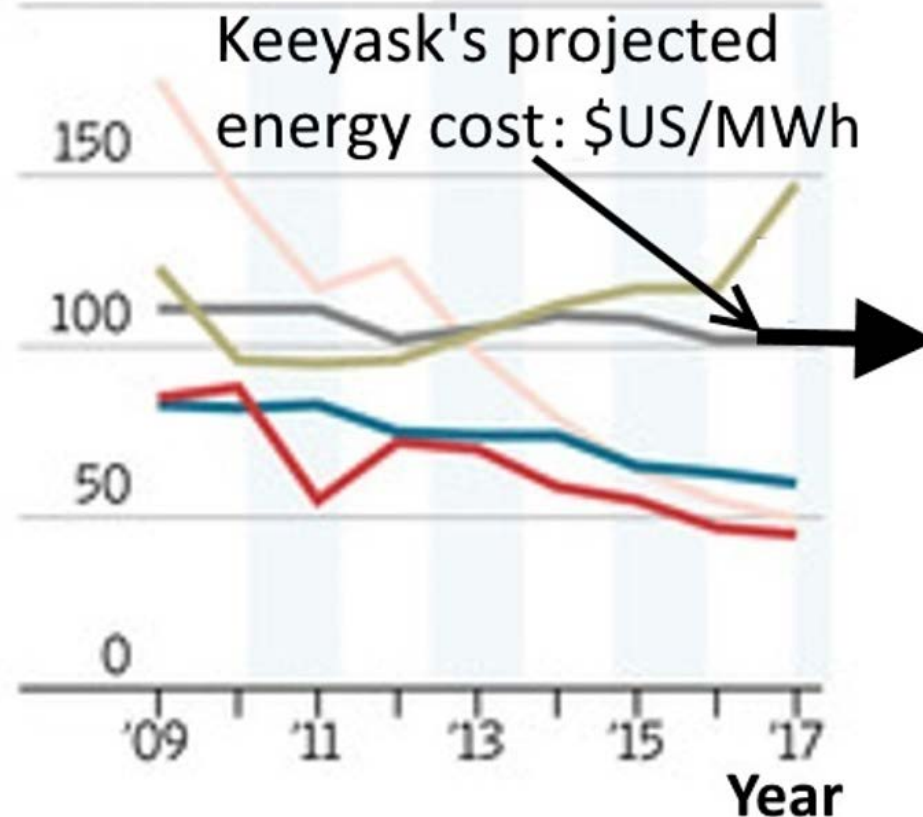
US Energy Costs

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Estimated Cost of Energy in the US



\$US200 a MWh



Source: The Wall Street Journal, Nov 30, 2017

Solar Energy

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Hours of Sunshine/yr in Manitoba and in Northern European Cities

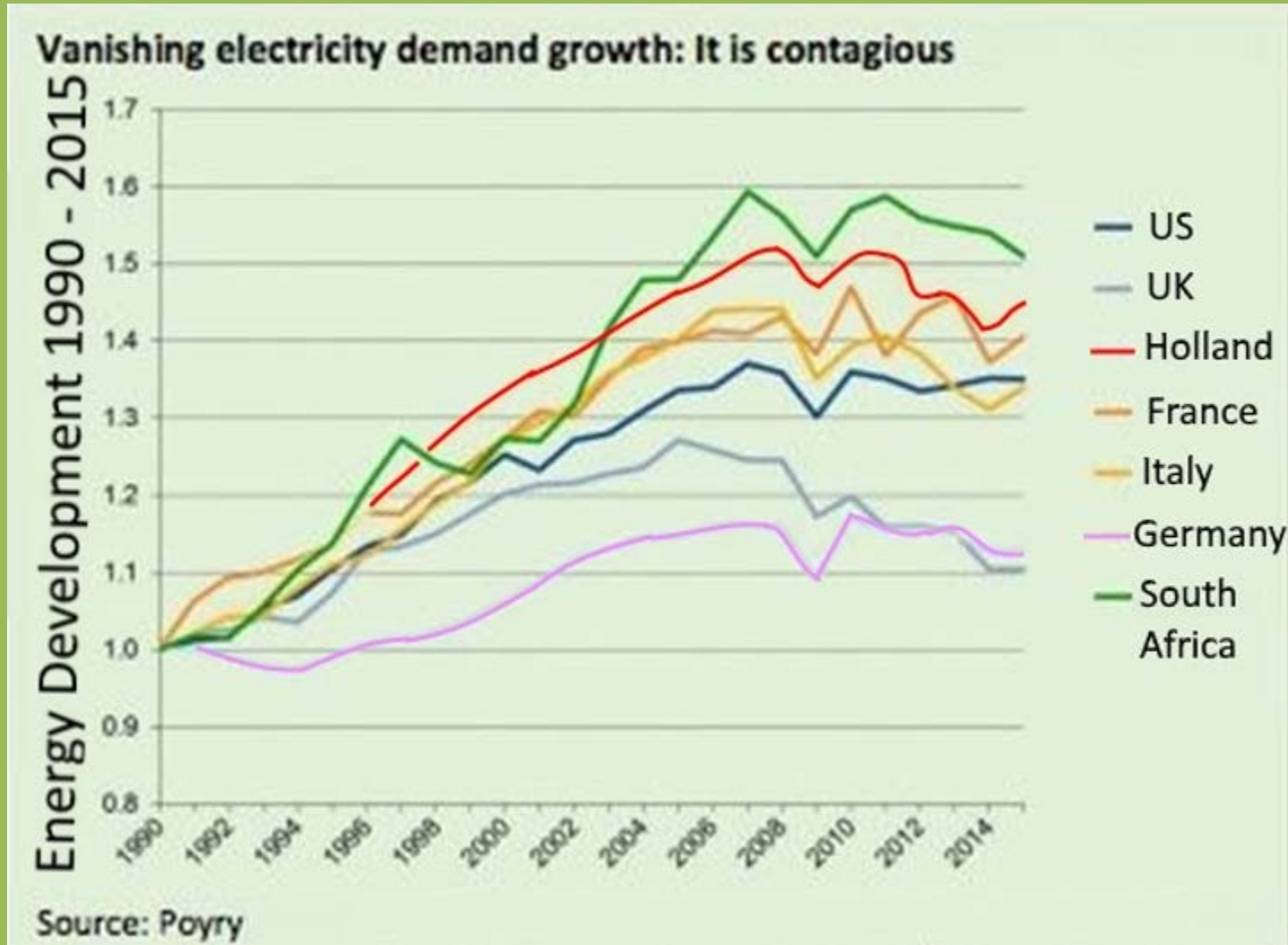
City	Hours of Sunshine/yr
Winnipeg	2353
The Pas	2247
Churchill	1800
Berlin	1626
Frankfurt	1662
Stockholm	1821
Paris	1662
London	1633

Grid Parity-Earlier

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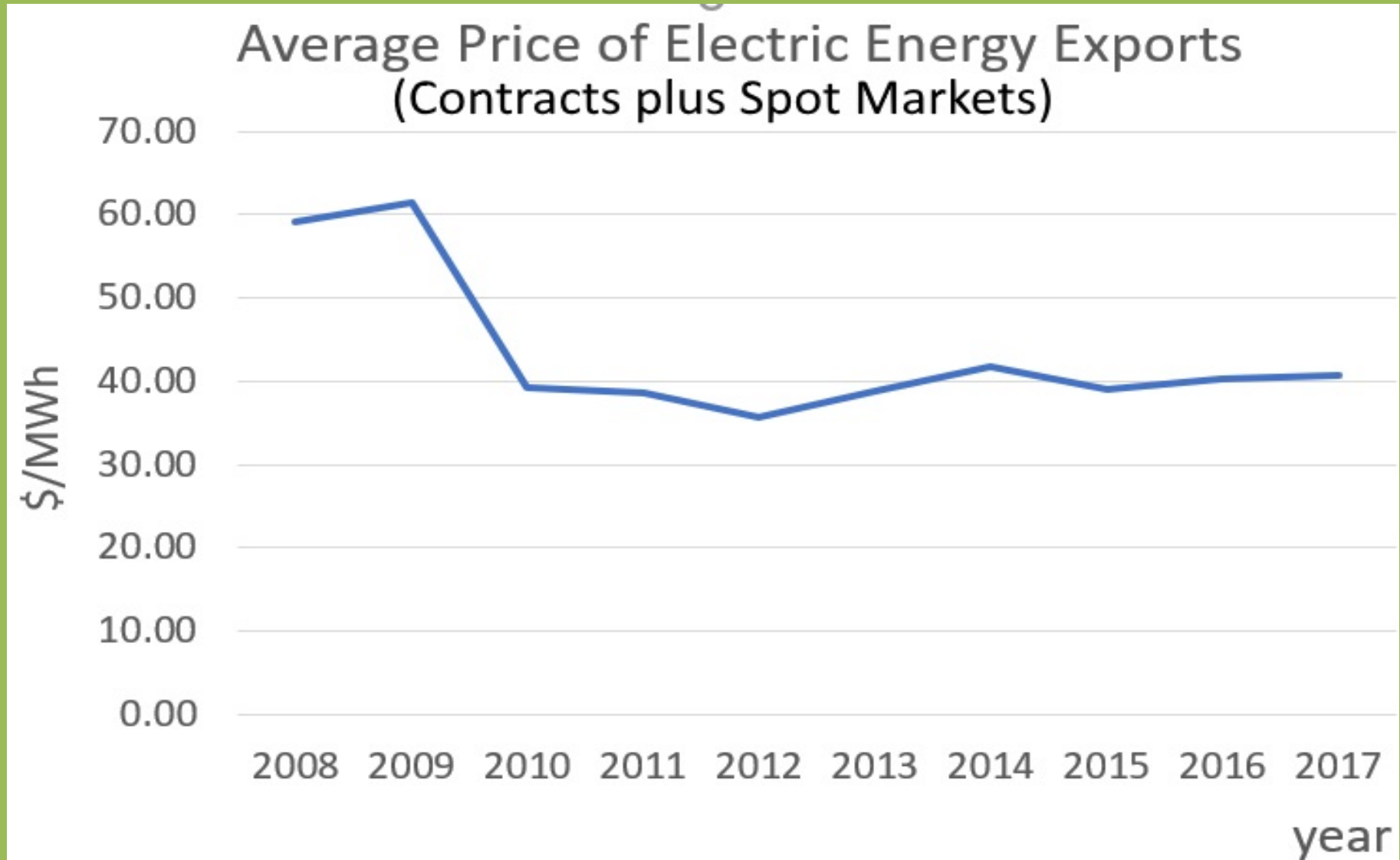


Vanishing Electricity Demand Growth



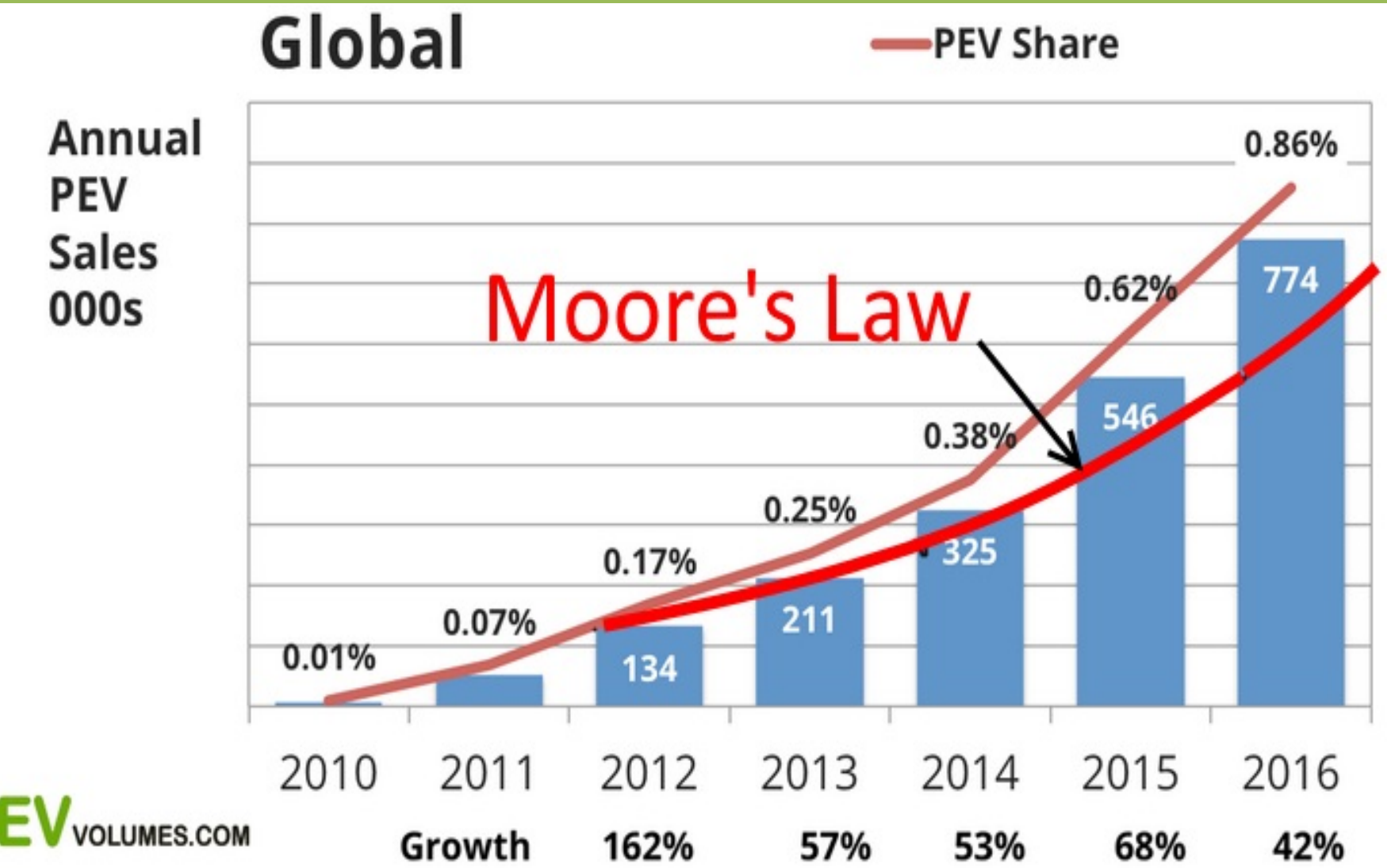
The Income from Electric Exports has been Soft since 2010

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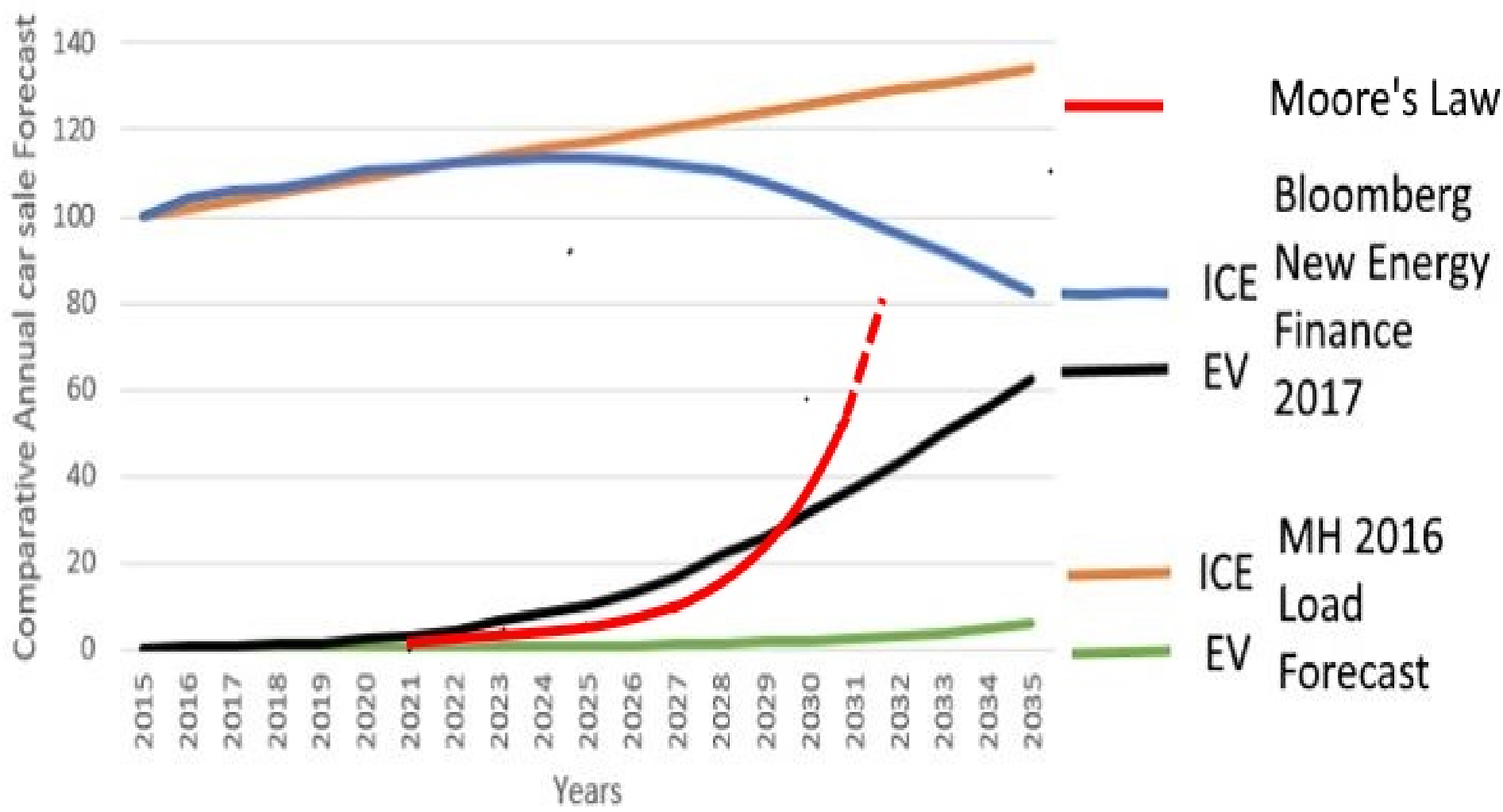
Plugin Electric Vehicle

Global Sales and Moore's Law



MH EV Growth Forecast [Bipole III Coalition](#)

Compared with Other EV Sales Forecasts



When Manitoba Hydro [Bipole III Coalition](#) Was Nimble in Planning – Limestone



Recommendations:

- 1. Change the Hydro grid to “Open Access” for competitive marketing of electricity between consumers and producers of electricity**
- 2. Hydro’s debt to be assumed by the provincial government and taken off the backs of ratepayers**

1. Open Access

Change the Manitoba Hydro Act so electricity can be traded freely across the grid

- i. A tariff would apply to all electricity transactions across the grid**
- ii. An “Open Access” grid would provide needed competition to the unfettered monopoly of Manitoba Hydro**
- iii. Manitoba Hydro’s generation competes with other generators from rooftop solar to investor owned wind farms**

2. Debt Transfer

More equitable to low incomers due to the graduated tax system, and more in-line with other provinces with electric crown utilities

- i. Moving debt to government allows for financial reorganization in Hydro
- ii. Provide a gentler pay down at provincial debt rates and better for credit rating
- iii. Treated differently in the provincial budget
- iv. Improve provincial economy

Continuing forward in an archaic and now inflexible electric utility monopoly that is destroying the “Manitoba Advantage” must cease, and dramatic surgery applied.



Thank You