

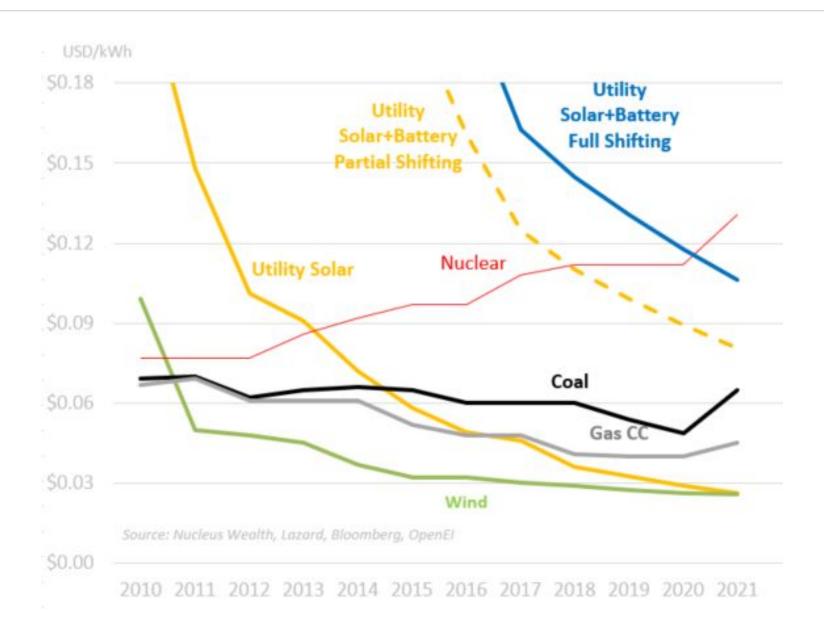


# SCRAMBLING FOR SOLAR - CAN SUPPLY CHAINS SAVE THE WORLD?

# Agenda

- Effect of Ukraine war on solar demand
- Solar pricing
- Supply chain interruptions
- Short term pain, long term gain
- Investment outlook

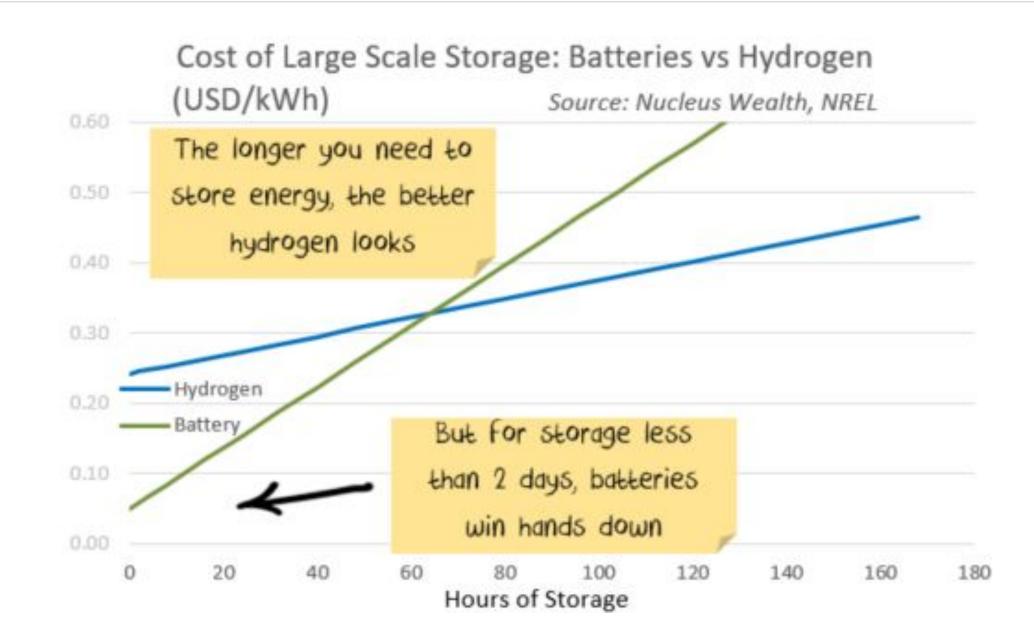
#### Pre war calculations



# Putin's carbon tax

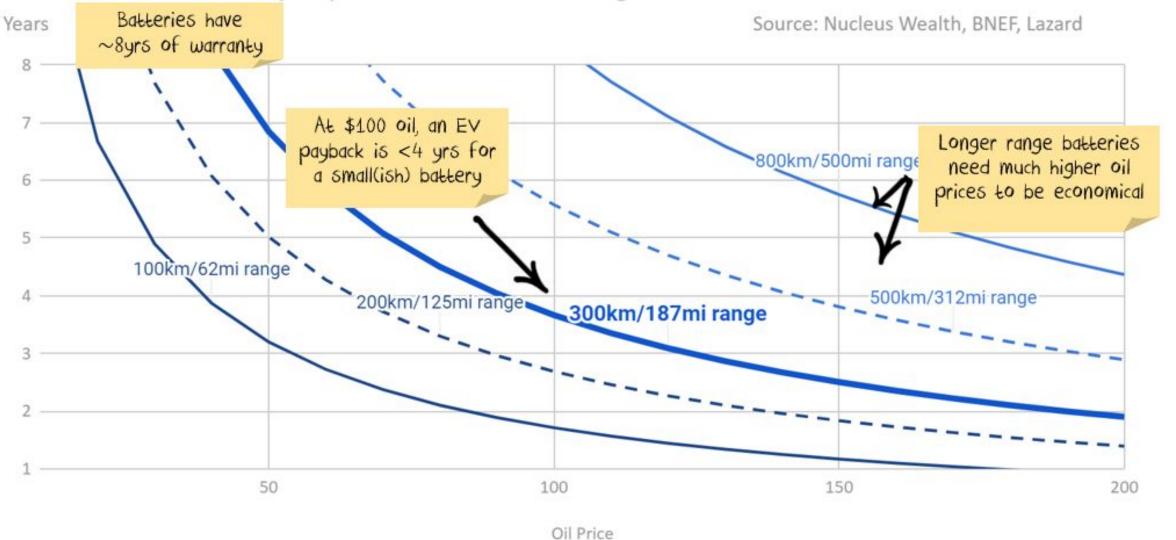
Levelized Costs (USD/kWh)	Levelised Cost Ex Fuel	Fuel	Total	
Utility Solar	\$ 0.03		\$ 0.03	Utility solar and wind
Onshore Wind	\$ 0.03		\$ 0.03	the cheapest option
Natural Gas @\$3/mmBtu	\$ 0.02	\$ 0.02	\$ 0.04	are areapear spersti
Natural Gas @\$5/mmBtu	\$ 0.02	\$ 0.03	\$ 0.05	
Coal @ \$50/Ton	\$ 0.04	\$ 0.02	\$ 0.06	Adding a partial battery
Utility Solar + partial battery	\$ 0.06		\$0.07	now cheaper than coal
Coal @ \$100/Ton	\$ 0.04	\$ 0.03	\$ 0.07	new cheaper than evan
Natural Gas @\$10/mmBtu	\$ 0.02	\$ 0.07	\$ 0.08	
Utility Solar + full battery	\$ 0.07		\$ 0.09	
Offshore Wind	\$ 0.10		\$ 0.10	
Nuclear	\$ 0.10	\$ 0.01	\$ 0.10	At "Russian" prices, the
Coal @ \$200/Ton	\$ 0.04	\$00	\$ 0.11	economic pressure to
Coal @ \$300/Ton	\$ 0.04	\$ 0.10	\$ 0.14	switch is immense. The
Natural Gas @\$20/mmBtu	\$ 0.03	\$ 0.13	\$ 0.16	
Natural Gas @\$30/mmBtu	\$ 0.04	\$ 0.20	\$ 0.24	fuel cost alone is highe
Source: Nucleus Wealth, Lazard, Bloomberg, Open El				than solar+battery

## Hydrogen



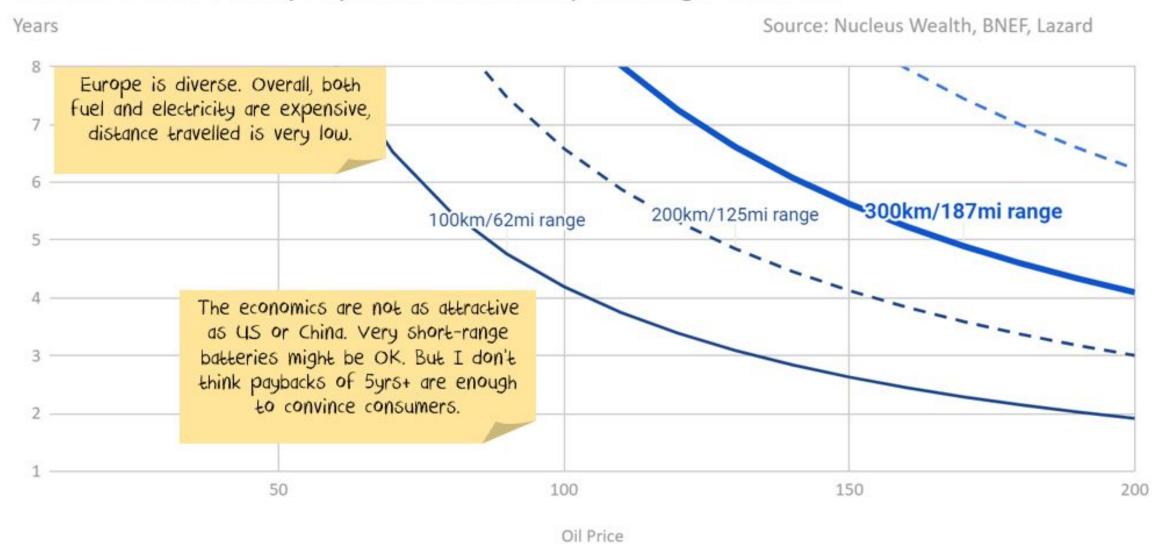
#### **Driving**





## **Driving**

#### Electric Vehicle Battery Payback Period: Europe Average Consumer



Viewer question of the week:

Will Europe commit to renewables or will their resolve fade?

Drop your answers in the comments

## **Investment Implications**

- Energy prices the great unknown
- Long term picture worse, short term better
- Oil vs gas is very different
- Inflation implications

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