

---

March 11, 2024

# The Electricity Transformation

## *A View from Ontario*

Chuck Farmer, Chief Energy Transition Officer and  
Vice-President of Planning, Conservation & Resource Adequacy

# The Independent Electricity System Operator



Operates Ontario's electricity system on a 24/7 basis



Supports innovation and emerging technologies



Oversees electricity market, driving competition to maintain affordability



Works closely with communities

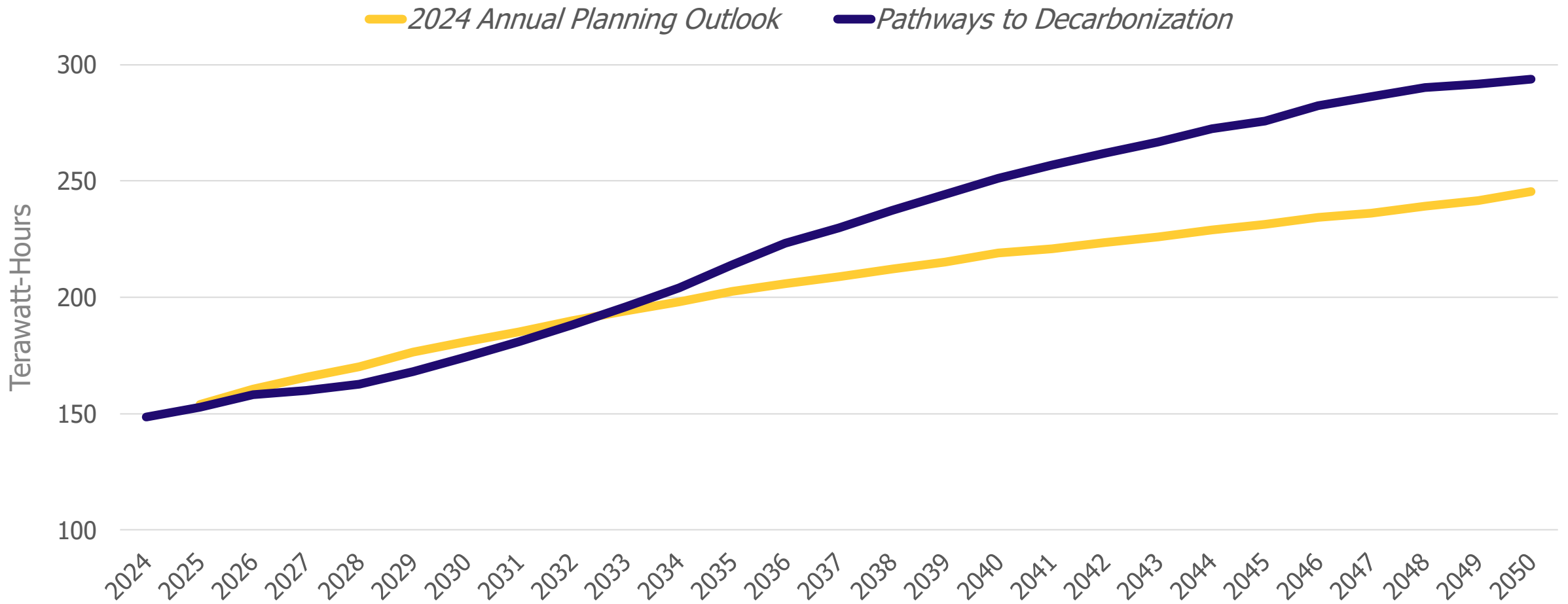


Plans and forecasts future energy needs



Enables province-wide energy conservation

# Annual Energy Demand Forecast

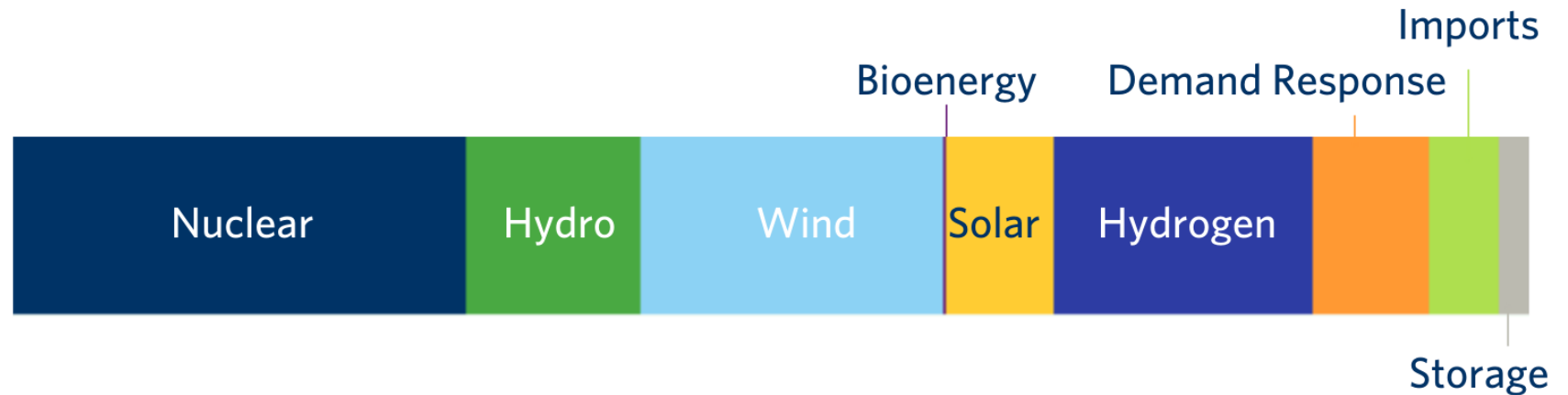


# The Supply Mix and Future Grid

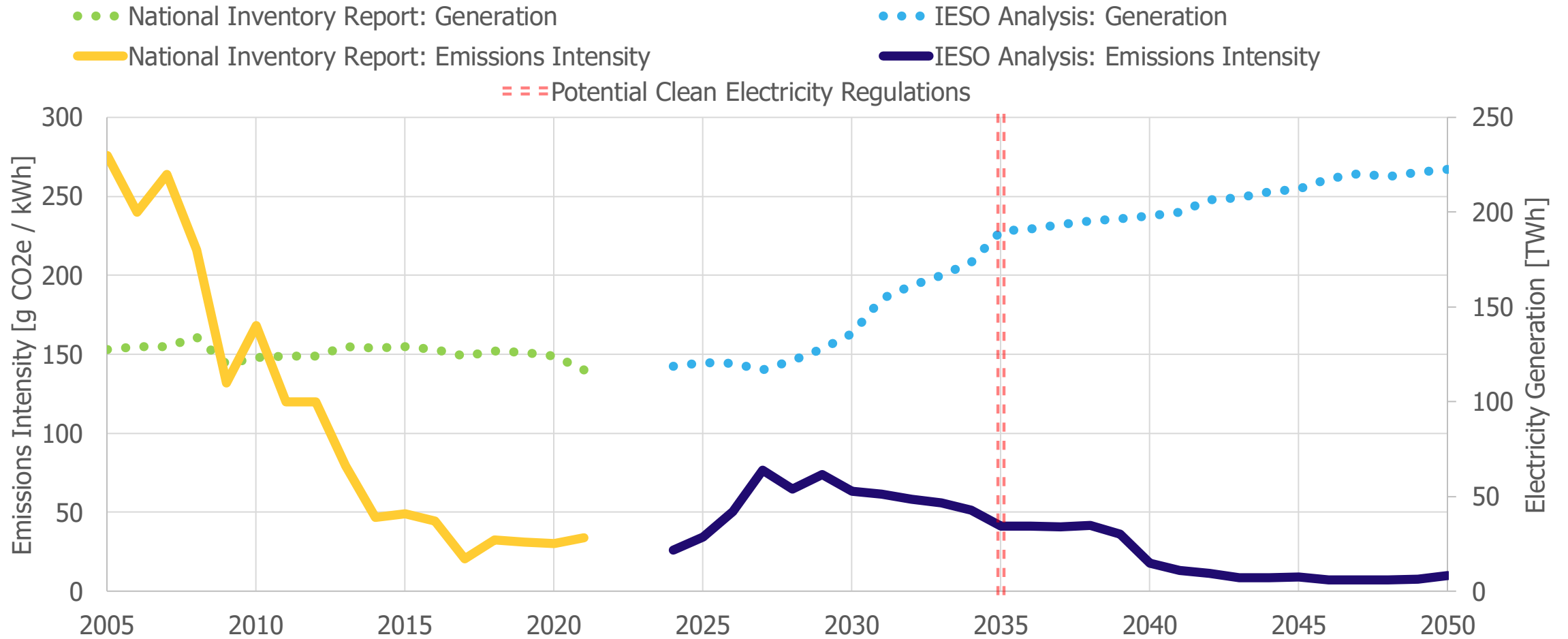
System Capacity Today  
**42,000 MW**



Pathways to  
Decarbonization  
2050 Scenario  
**88,000 MW**



# Emissions Intensity and Generation Forecasts



---

# Thank You

[ieso.ca](https://ieso.ca)

 [@IESO\\_Tweets](https://twitter.com/IESO_Tweets)

 [linkedin.com/company/IESO](https://linkedin.com/company/IESO)