Senator Bill Dodd

Leveraging Climate Resilience Districts & Private Industry
The following slides are those depicted in the video provided by Senator Dodd
“We are the first generation to feel the effect of climate change and the last generation who can do something about it.”

– President Barack Obama
SB 852 - Climate Resilience Districts

• Allows creation of climate resilience districts to address climate change.
• Must be formed for the purpose of addressing climate change mitigation.
• Climate resilience districts are an enhanced infrastructure financing district.
• Allows district certain powers related to financing such as:
  • levying a benefit assessment
  • special tax
  • property-related fee
  • other service charge or fee
• And deems the Sonoma County Regional Climate Protection Authority a climate resilience district.
Leveraging Private Industry
Why Hydrogen is an Important Part of Meeting our Climate Goals

• Hydrogen Fuel Cell Vehicles are Zero Emission Electric Vehicles
• Not everyone will have access to a charging stations i.e. renters
• Challenges with upgrading our electric distribution system
• Most important: Hydrogen excels w/heavy cargo for trucks, trains & heavy equipment
  • Batteries are heavy and take up payload
  • Hydrogen is significantly lighter leaving more room for payload
Leveraging Private Industry
The Inputs are What Makes Hydrogen Renewable or Not

**GREY HYDROGEN**
Generated through SMR* using natural gas or fossil fuels

**BLUE HYDROGEN**
Generated through SMR with carbon capture using natural gas or fossil fuels

**GREEN HYDROGEN**
Generated through electrolysis using renewable electricity

**YELLOW HYDROGEN**
Generated through electrolysis using solar power, specifically

**PINK HYDROGEN**
Generated through electrolysis using nuclear energy

*SMR = steam methane reformation*
Leveraging Private Industry
A Hydrogen Case Study

• Billions already invested into Hydrogen production & Infrastructure
  • Hydrogen historically used in oil refining and industrial production
  • Already produced here locally in Richmond!

• Private Industry has the Human Capitol, Engineering & Infrastructure

• The key to success is the right mix of taxes and regulations to leverage the resources of private industry
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