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Item 10: Decarbonizing Large Commercial and Industrial Equipment with Hydrogen

July 13, 2022 Business Meeting

Yu Hou
Energy Research and Development Division



Benefits to Californians

- Advance state's goal to decarbonize
- Help prevent negative health outcomes



Source: The Institute of Gas Technology (GTI)



Objective of Study

- Help determine whether hydrogen fuel use is viable decarbonization strategy



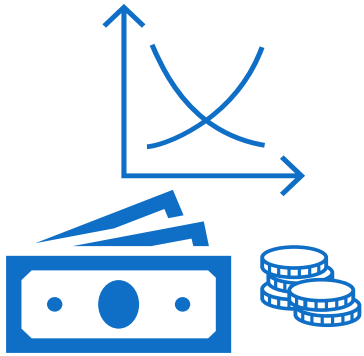
Source: Wikimedia Commons, the free media repository



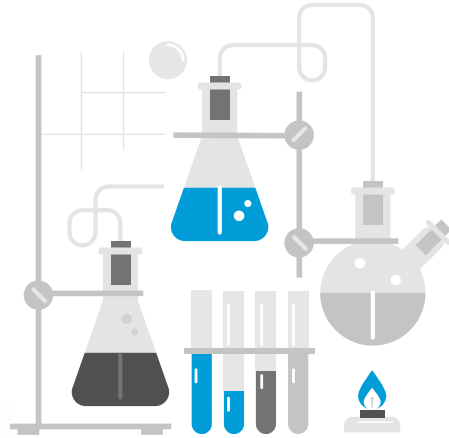
Source: Courtesy of California Steel



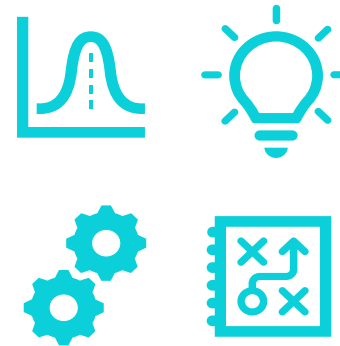
Overview



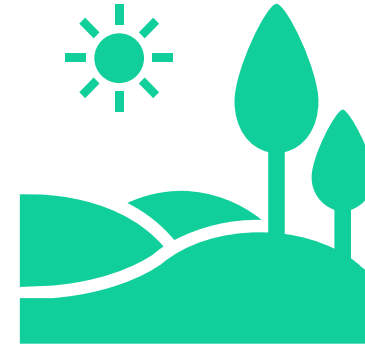
Techno-Economic
Analysis



Laboratory Testing



Calibrated
Simulation of
Combustion



Air Quality
Modeling



Stakeholder
Engagement



Staff Recommendation

- Approve grant agreement
- Adopt staff's determination that the project is exempt from CEQA