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# DOE Hydrogen Program

## **Systems Analysis Workshop**

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# Systems Analysis

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- Why Systems Analysis is important to the DOE Hydrogen Program
- Impact of the NRC Report
- New positions and concepts
  - Technology Analyst
  - Systems Integration
  - Also, Chief Engineer)



# Analysis Roles & Responsibilities



## TECHNOLOGY ANALYST

- Accountable for analysis activities
- Provide inputs/priorities to the Analysis Agenda
- Advises PM on policy issues
- Assure communication of a consistent data and info
- **Provide analysis that is inherent Govt responsibility**
- **Provide analysis in response to short-term and urgent requests (quick-response tasks)**
- Primary direction/guidance interface with TDMs/subprograms and Tech Teams
- Provide analysis coordination within DOE (EERE programs, Offices, PBA, EIA)
- Interpret analysis scenarios provided by SI

## NREL SYSTEMS INTEGRATION

- Develop Analysis Agenda (including technical and time pathways)
- Develop, maintain, resolve consistent data sets/info and standard analysis assumptions and guidelines
- **Provide independent analysis (policy-related issues, Go/No-Go recommendations, H2 in the context of larger energy markets, etc.)**
- Ensure tools/models are developed, maintained, available, validated
- Provide independent review of analysis results
- User and/or requestor of info generated by TA (especially from other parts of DOE)
- Define analysis scenarios

## DOE Subprogram TDMs

- Provide inputs/priorities to Analysis Agenda
- Coordinate and provide ideas/recommendations to SI on cross-cutting analysis
- **Manage analysis tasks internal to subprogram**
- Provide internal planning/results back to SI and TA



# Analysis Roles & Responsibilities



## TECHNOECONOMIC ANALYST COMMUNITY

- Provide analysis strategic recommendations and planning inputs to DOE (Labs/FFRDCs only)
- **Perform analysis of technoeconomic topics for TA and SI**
- **Perform subprogram technical analysis in support of TDMs**
- Develop and maintain the models and tools to perform analysis
- Provide analysis of scenarios
- Report on analysis results to tech community

## DOE EERE/PBA

- **Provide market and benefits analysis related to hydrogen and energy infrastructure**
- Review Analysis Agenda inputs/priorities
- Coordinate/exchange activities and results with the TA and SI analysis team

## TECH TEAMS

- Provide recommendations to DOE and SI on analysis needs, topics, issues, results, etc
- Provide inputs/priorities to the Analysis Agenda
- Review studies and analysis
- Coordinate/arrange auto and energy company analyses



# What We Need From You

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- Open discussion, and solutions to go with problems/issues
- Support to the Technology Analyst, TDMs, and Systems Integration
- Teamwork