

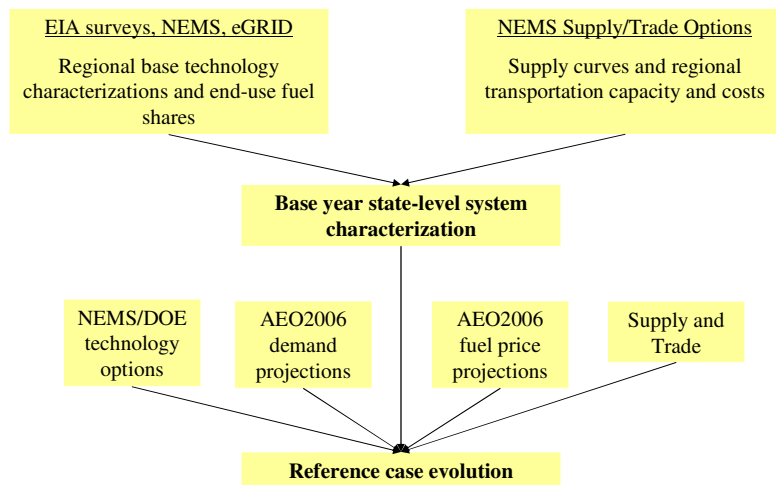
# US Multi-region MARKAL Modeling

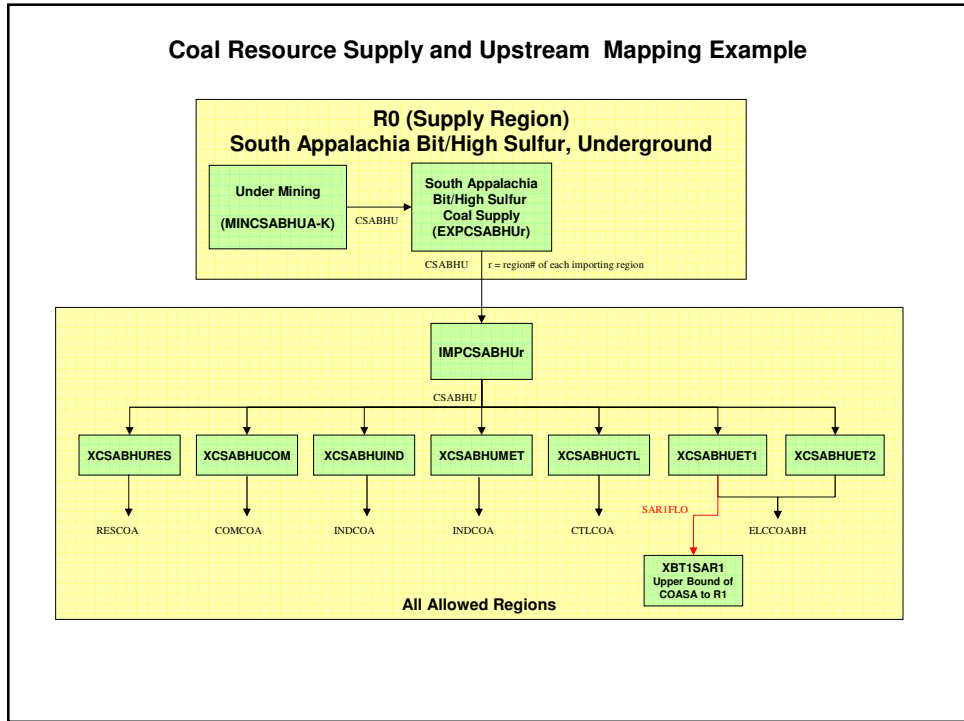
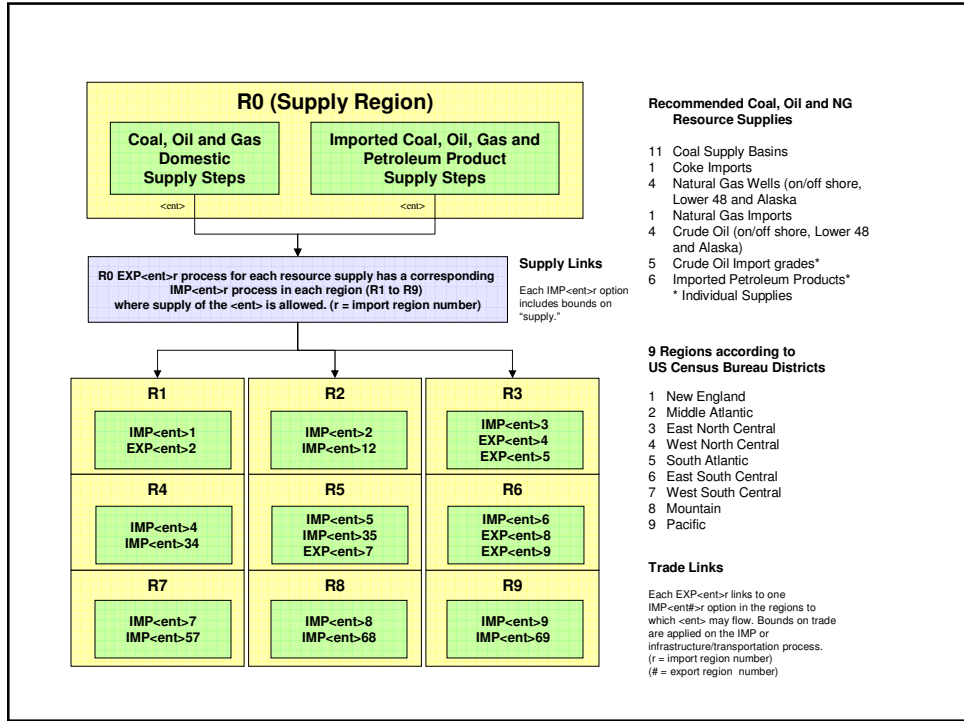
## US 9-region National Model

ETSAP Semi-annual Workshop  
Annex X, 5<sup>th</sup> Workshop  
Stanford University  
June 28, 2007

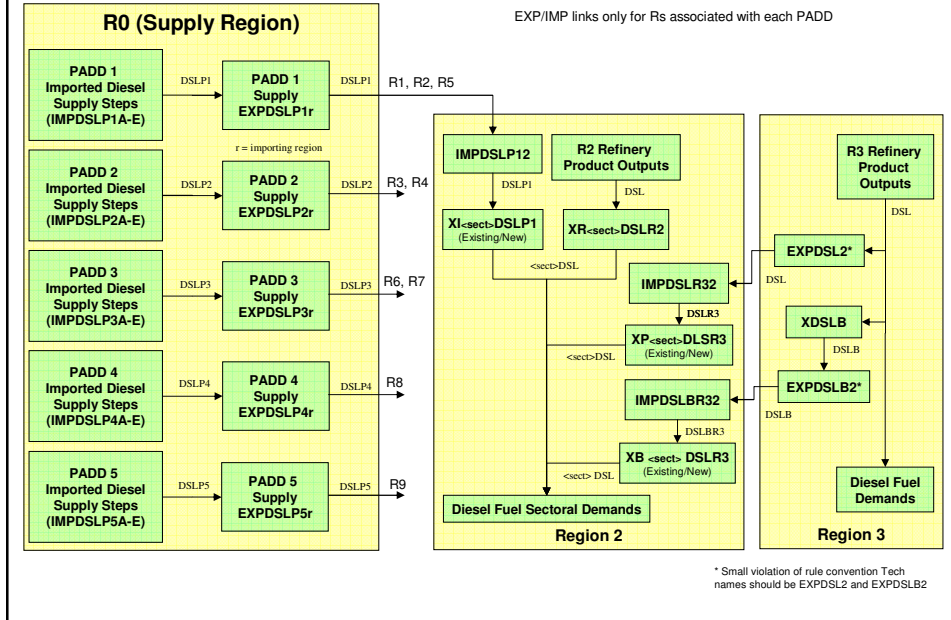
Pat Delaquil, Clean Energy Commercialization  
Gary A. Goldstein, International Resources Group  
Less Goudarzi, OnLocation  
Evelyn Wright

## US9r Data Development Process

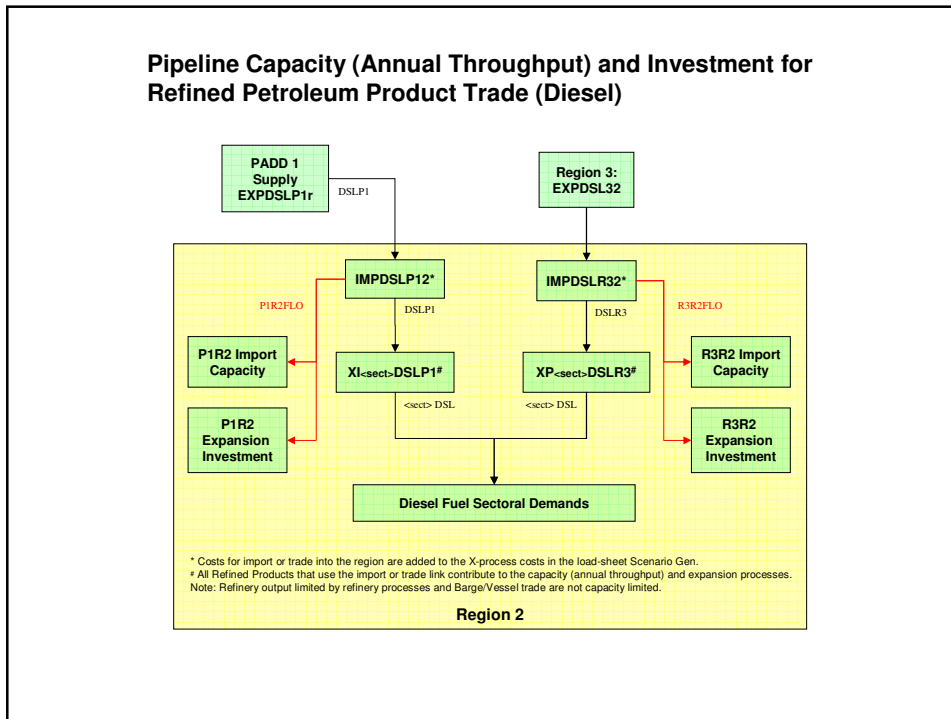




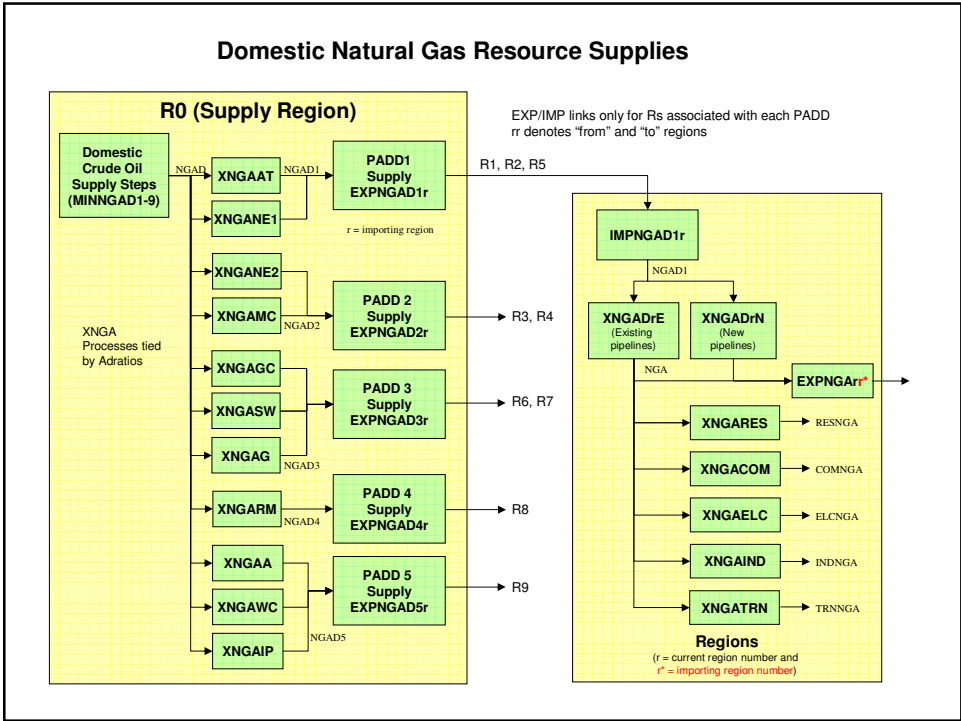
## Imported Supply and Trade of Refined Petroleum Products (Diesel)



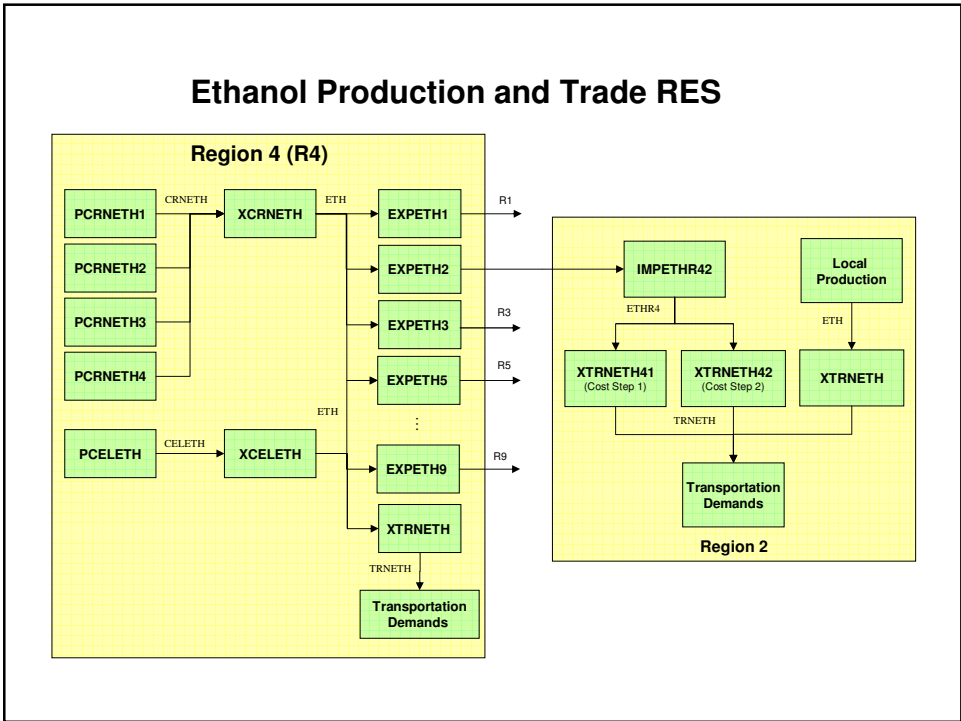
## Pipeline Capacity (Annual Throughput) and Investment for Refined Petroleum Product Trade (Diesel)

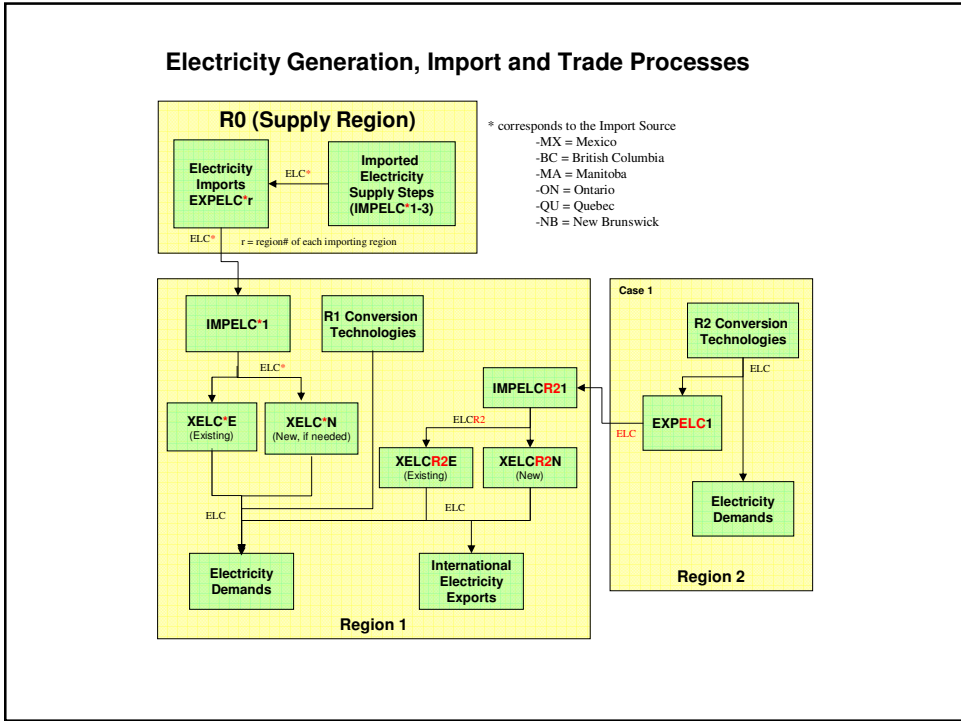


### Domestic Natural Gas Resource Supplies



### Ethanol Production and Trade RES





## Current Status

- Initial complete model is assembled
- Calibration to AEO2006 underway
- Initial sensitivity runs this fall