

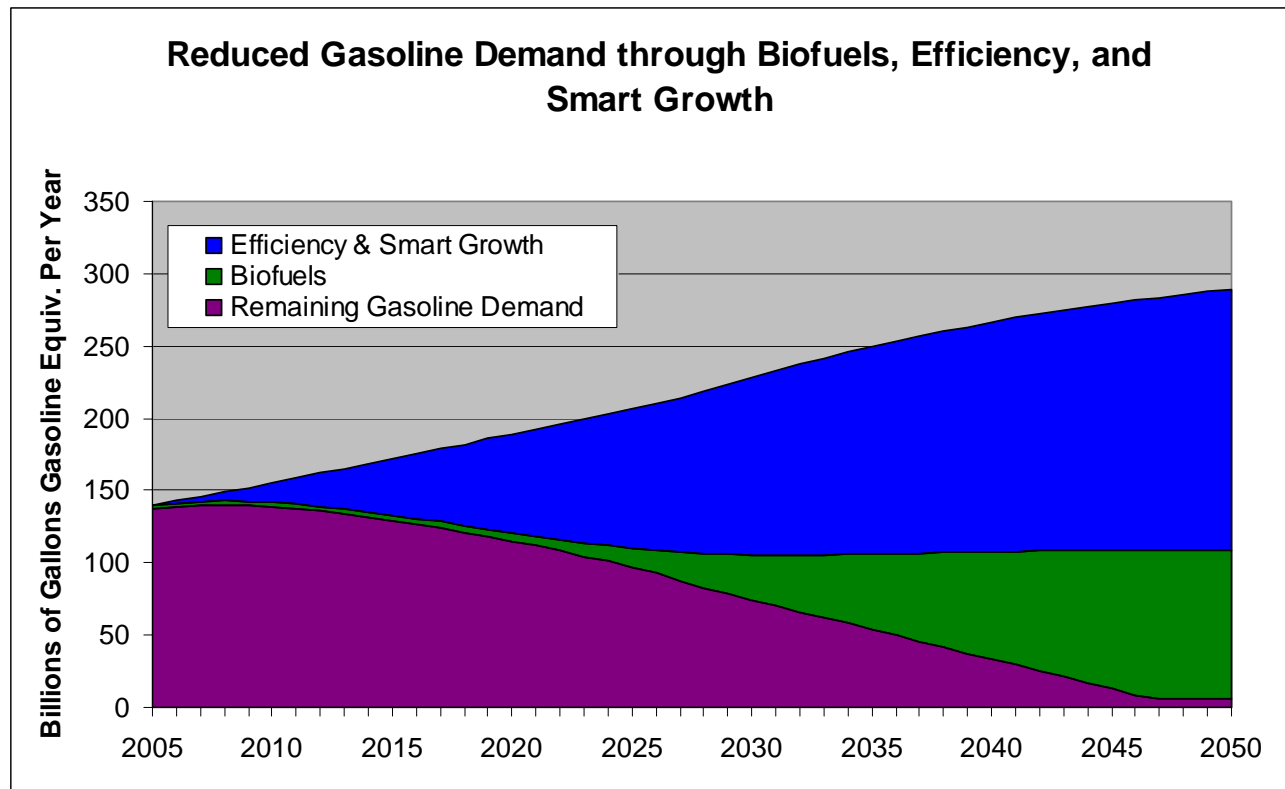
# **Cellulosic Ethanol in Transportation**

**Presented to the California Biomass Collaborative**

Luke Tonachel  
Natural Resources Defense Council  
November 9, 2005

# Transportation Fuel Vision

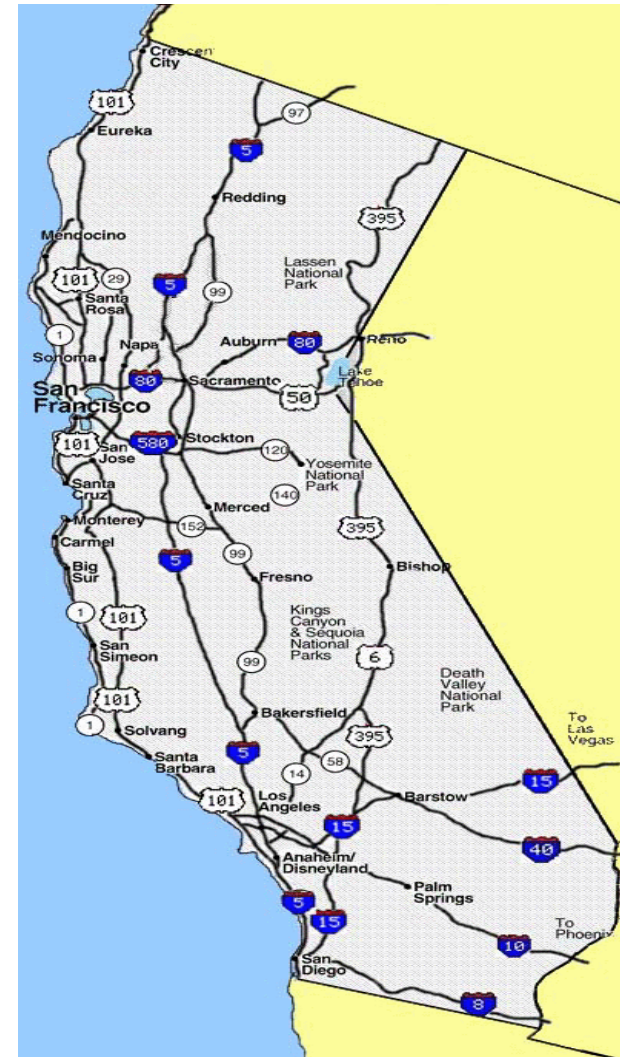
Displace oil with fuel efficiency and cellulosic ethanol while protecting environmental quality.



NRDC  
Report:  
*Growing Energy:  
How Biofuels  
Can Help End  
America's Oil  
Dependence*

# CA Strategy: E-85

- Avoids low-blend air quality issues
- Part of an 'alternative fuels highway'
- Challenges:
  - Assessment through AB1007
  - Demand—need to grow vehicle population
  - Infrastructure



# Getting E-85 Vehicles on the Road

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- Need to concentrate existing vehicles
- Incentives for concentrating new vehicles
- Fleet specifications
- FFV mandate
  - Alternative fuel vehicle compliance mechanism of CA Vehicle GHG regulations
  - PZEV certification could be a driver (link with Plug-in Hybrid Electric Vehicles)

# Proliferating E-85 pumps

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- EPA Act 2005 Tax incentives
  - Lesser of 30% of cost or \$30,000
- Alternative fuels trigger in existing regulation
- Pump certification—industry-government partnership?

# Funding Sources for RD&D

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- CA should go after EPA Act 2005 funds
  - Funds only authorized, not *appropriated*
  - Lack sufficient targeting
- Transportation fuels public goods charge
- CEC PIER recent growth in transportation funding (SB 76)