

BIOECONOMY HAWAII FORUM 2022

Clean Fuel Standards
Gaining Traction Nation-wide

Graham Noyes
Executive Director



Low Carbon
Fuels Coalition

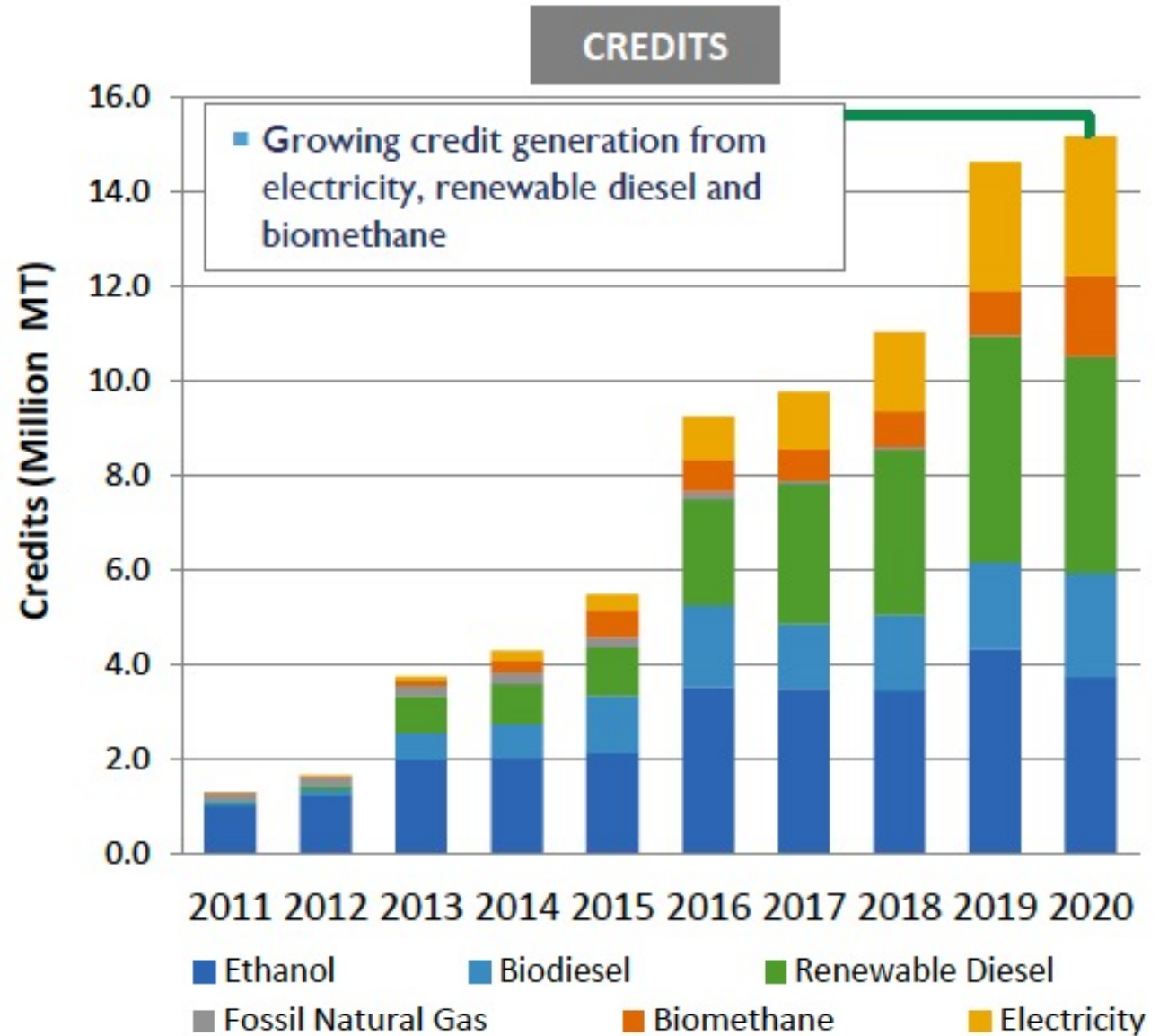
About the Low Carbon Fuels Coalition

- Non-profit whose mission is to expand Clean Fuel Standards (CFS)
- Technology-neutral, Science- and Performance-based
- Diverse Membership
 - ✓ Producers
 - ✓ Service Providers
 - ✓ Market Participants
 - ✓ Off-takers
 - ✓ Other Associations



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A CFS Diversifies Fuel Markets



CALIFORNIA'S DECARBONIZATION SCENARIO

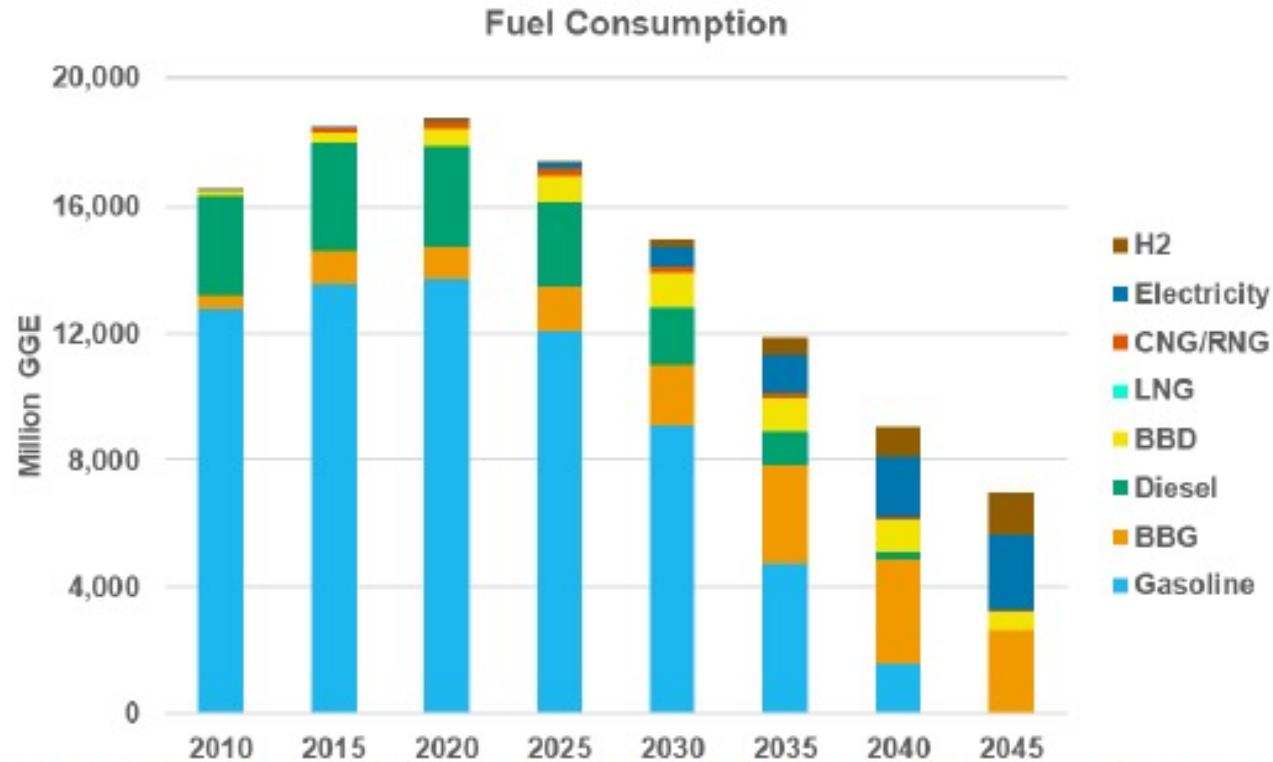
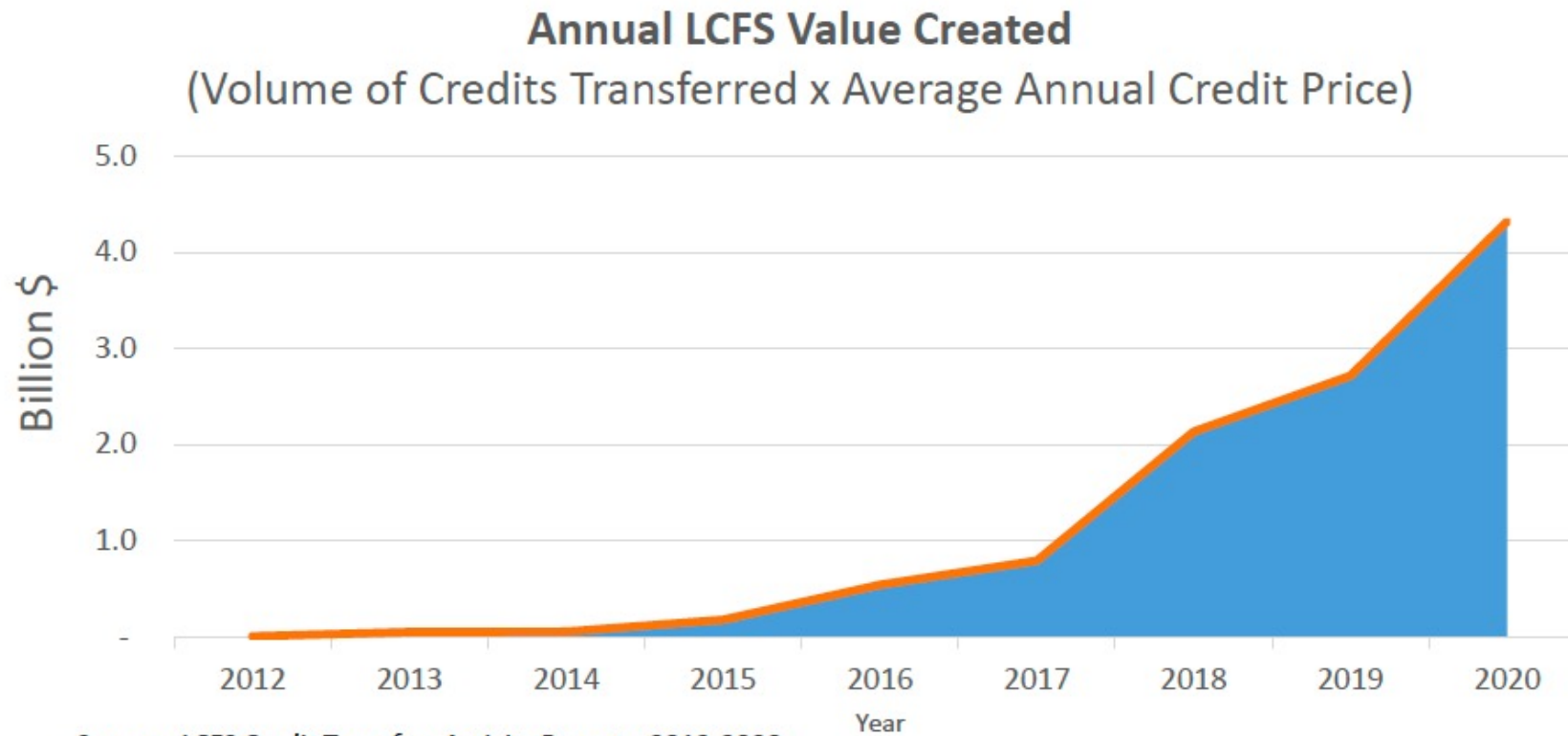


Figure EX-2. CO₂ emissions and fuel consumption projections in the LC1 scenario. The near-zero CO₂ emissions target is reached by 2045, with nearly all fossil fuels replaced by electricity, hydrogen, and biofuels at that date. (MMT, million metric tonnes; SAF, sustainable aviation fuel; H₂, hydrogen; CNG/RNG, compressed natural gas/renewable natural gas; LNG, liquefied natural gas; BBD, bio-based diesel, including biodiesel and renewable diesel; BBG, bio-based gasoline, including ethanol blends and drop-in gasoline replacement fuels)



California LCFS

LCFS Promotes Investment in Low Carbon Fuels



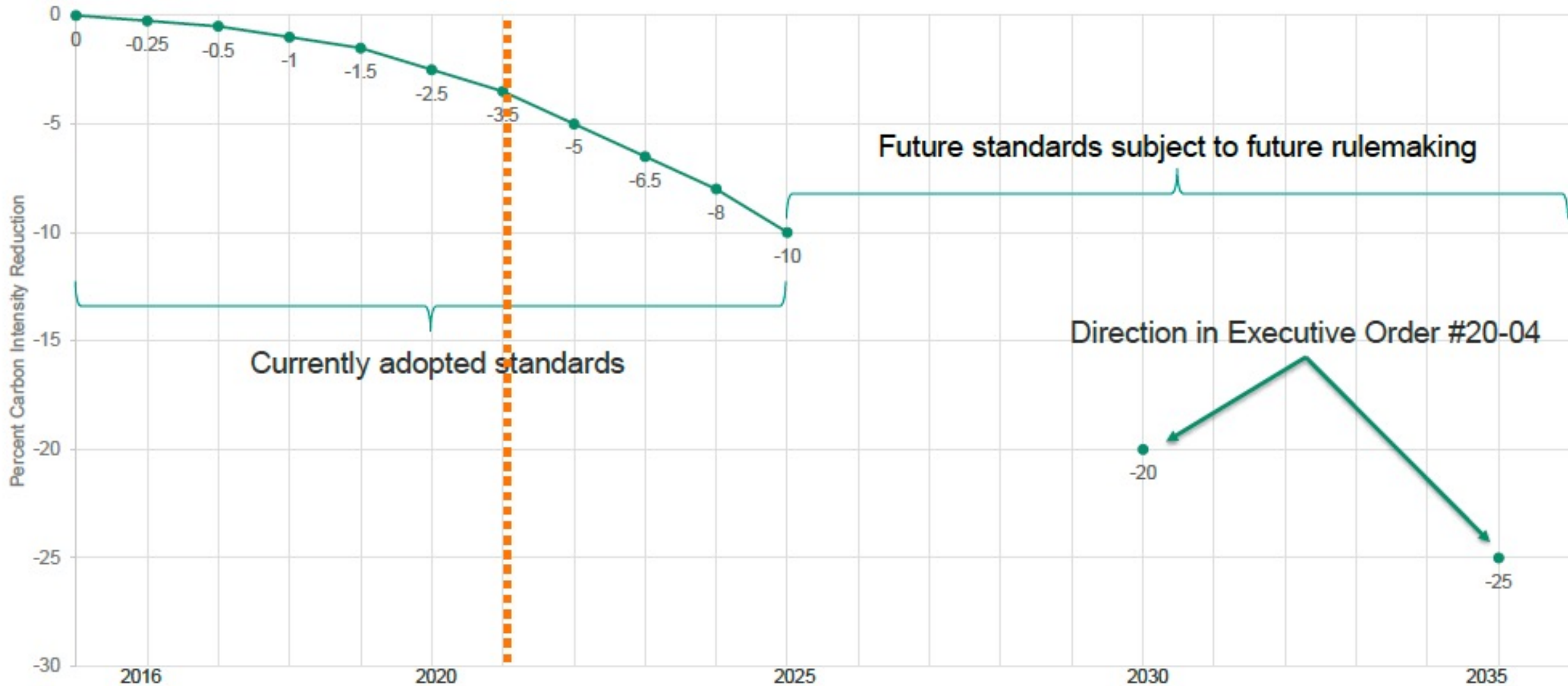
Source: LCFS Credit Transfers Activity Reports, 2012-2020



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Source:
California Air Resources Board

Oregon Clean Fuels Standards



New Mexico CFS

- ▶ #2 US oil & gas producing state
- ▶ LCFC co-founded and leads the New Mexico Clean Fuels Coalition
- ▶ 2021 SB 11 - Passed Senate, passed House Committees, did not reach House Floor
- ▶ 2022 Bill is 20% by 2030, 30% by 2040
- ▶ 30 Day Session - Governor's budget
- ▶ Battled to a Tie- Gas Pricing Fears

New York CFS

- ▶ SB2962/A862- Remained in Senate and Assembly Committees
- ▶ 20% by 2030
- ▶ Parallel recommendation in Climate Leadership and Community Protection Act Rulemaking
- ▶ Majority sponsorship in both Houses
- ▶ 1st Eastern state to consider a CFS
- ▶ The LCFC is a co-founder and Steering Committee member of the Clean Fuels NY Coalition

“*Minnesotans want the cleanest fuels available and a Clean Fuels Standard will help drive innovation and create new economic opportunities while supporting our state’s climate goals*”

Governor Tim Walz



Minnesota CFS

- ▶ 1st Midwestern state to consider a CFS
- ▶ HF 2083/SB 2027- remained in Senate and Assembly Committees
- ▶ 20% by 2035
- ▶ Governor Tim Walz convening agencies to explore solutions
- ▶ LCFC is a founding member of the Minnesota Future Fuels Coalition Announcement and works closely with Great Plains Institute throughout the Midwest on CFS policy advancement

CFS Programs on the Horizon:

- National CFS-hearings in DC
- Active Work and Discussions in a Dozen States

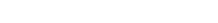
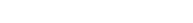
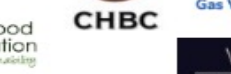
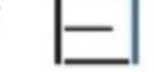
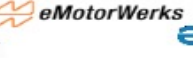
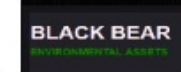
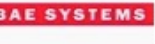


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Businesses Support California's LCFS

- ▶ The longer the program has existed, the broader its base of business support
- ▶ 150+ companies supported the LCFS in a letter to policymakers
- ▶ Including multinational companies, energy utilities, vehicle manufactures, fleet managers, and petroleum marketers (May 12, 2017)



Thank You for Your Time

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