

Clean Fuels Program

2016 Draft Plan Update

Technology Advancement Office

leading the way to zero emission technologies



November 2015

South Coast
Air Quality
Management District



Governor Executive Orders 2015

- Draft 2015 ZEV Action Plan
 - 1.5 million ZEVs on CA roadways by 2025
- MOUs - reduce GHG emissions
 - by 40% below 1990 levels by 2030
- Develop integrated action plan
 - improve freight efficiency
 - transition to zero-emission technologies
 - increase competitiveness of CA freight



Other State Programs 2015

- CARB

- Advanced Clean Transit Regulation
- Short-lived climate pollutant reduction strategy
- Clean Truck, Bus & Off-Road Vehicle & Equipment Technology Program



- Caltrans

- Interregional Transportation Strategic Plan



South Coast Plans & Policies

- 2016 AQMP – NAAQS
 - 2008 8-hr Ozone – 75 ppb
- FY 2015-16 Goals & Objectives



2015 Plan

Key Proposed Projects

- ZECT II technology
- Medium-duty fuel cell truck development
- Further evaluation of biofuels including DME
- Partnering with NREL on fleet and technology matching analysis
- Development & demonstration of advanced NG engines and zero-emission technologies for high HP applications

Projects not funded in 2015 may be considered for funding in future years

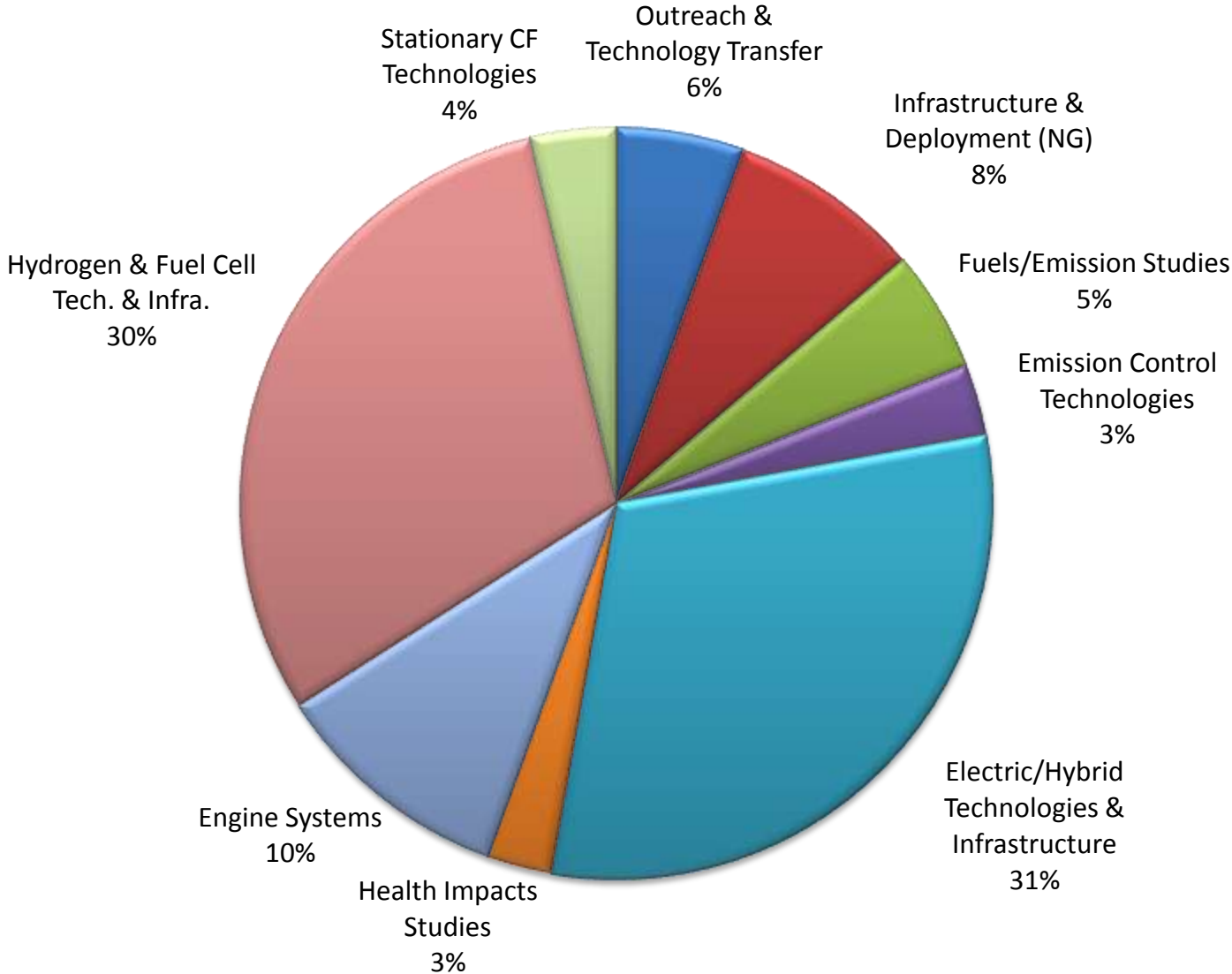


Draft 2016 Plan Update (Key Technical Areas)

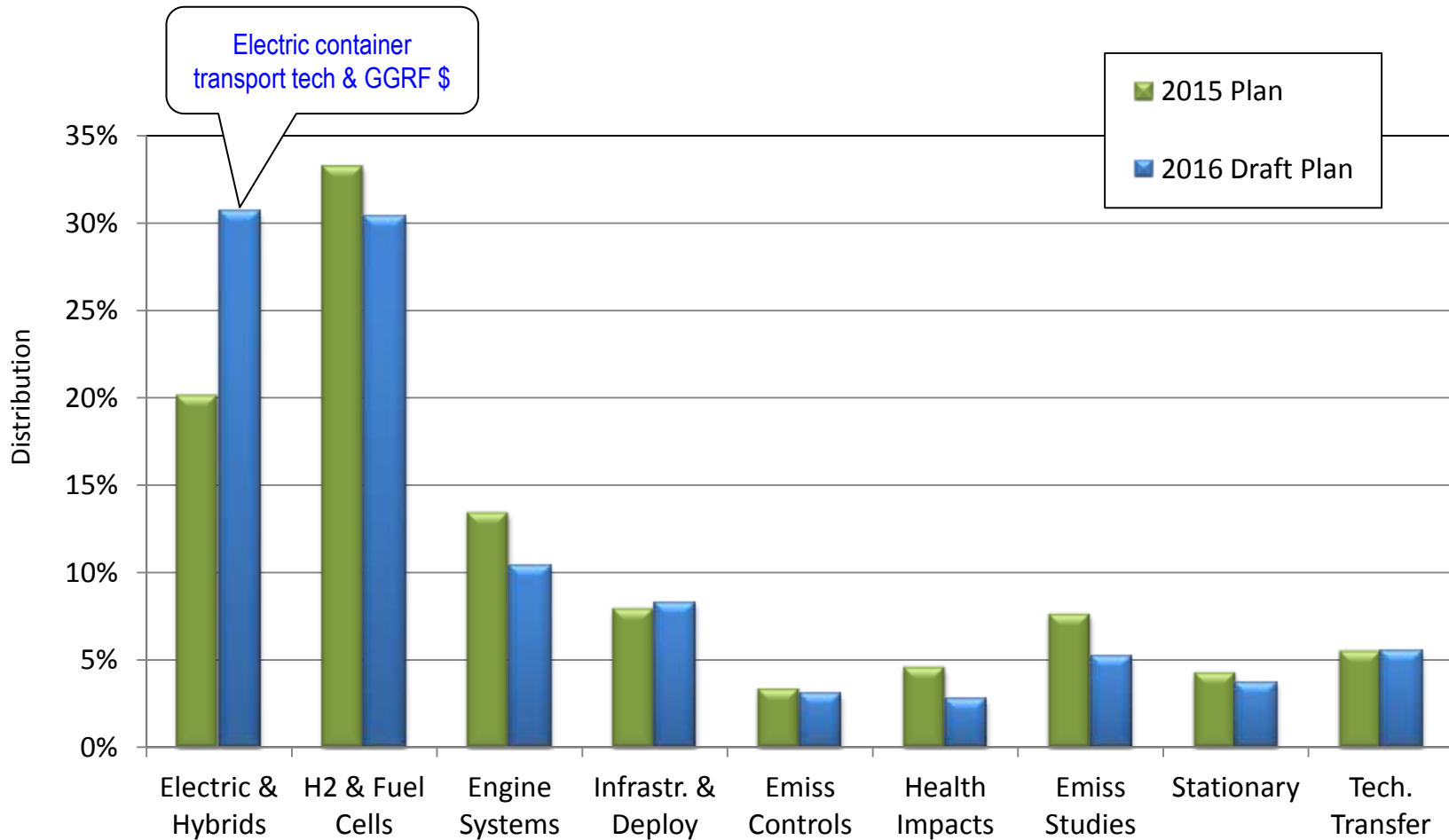
- Focus priorities on zero and near-zero emissions goods movement technologies
- Near-zero emission engine systems
- Maintain focus on hybrid, plug-in, electric-drive technologies and infrastructure
- Continue to prepare for hydrogen vehicle deployments
- Maintain other areas of emphasis



Proposed 2016 Plan Distribution



Plan Update Comparison



Proposed Distribution

	2015 Plan	Draft 2016 Plan
Electric & Hybrids & Infra	20%	31%
H2 & Fuel Cells & Infra	33%	30%
Engine Systems	13%	10%
Infrastructure & Deployment (NG)	8%	8%
Emissions Controls	3%	3%
Health Impacts	5%	3%
Fuels & Emissions Studies	8%	5%
Stationary CF Tech	4%	4%
Technology Transfer	6%	6%
	100%	100%



Feedback

- On proposed distribution
- Other issues impacting 2016 Plan

