



# SBX1 1

## Clean Technology and Renewable Energy

**DOCKET**

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# CALIFORNIA PARTNERSHIP ACADEMIES

**CALIFORNIA DEPARTMENT OF EDUCATION**

Tom Torlakson, State Superintendent of Public Instruction



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State Superintendent  
of Public Instruction

# Briefly, What is a CPA

- 4 year high school program, grades 9-12
- School-within-the-school structure
- Career theme
- Academic and career technical courses with curricular integration
- A Partnership
- 50% of students accepted into academy must qualify as “at-risk”



Grade Course	Grade 9	Grade 10	Grade 11	Grade 12
	Classes limited to Academy Students			
Academic	English	English	English	English
Academic	Earth Science	World History	U.S. History	Gov't./ Economics
Academic	Biology or Math	Science or Math	Science or Math	
Career Technical: Clean Tech/ Renewable Energy	Explore Careers/Set Foundation/ Intro to Energy	Prepare: Industry Knowledge /Workforce Skills & Knowledge	Prepare: Workforce Skills & Knowledge	Experience: Internship, College App, Dual Credit, Energy Issues
Curricular Integration	Academic & Career Connections / Interdisciplinary Projects/ Computer Applications			



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# Current Status

- 496 Academies
- In 299 Schools (approx. 24% of all CA public high schools)
  - 15% (45) have 3 or more Academies
  - 26% (78) have 2 Academies
  - 59% (176) have 1 Academy
- Serving approximately 53,000 students
- Funding Sources:
  - Prop 98 General Funds: 266
  - SB70: 182
  - AB519: 48



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# Green Academies

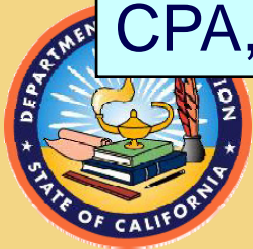
## “Green” Academies: 82+

- 48 funded by AB519
- +34 with Environment or Green in name

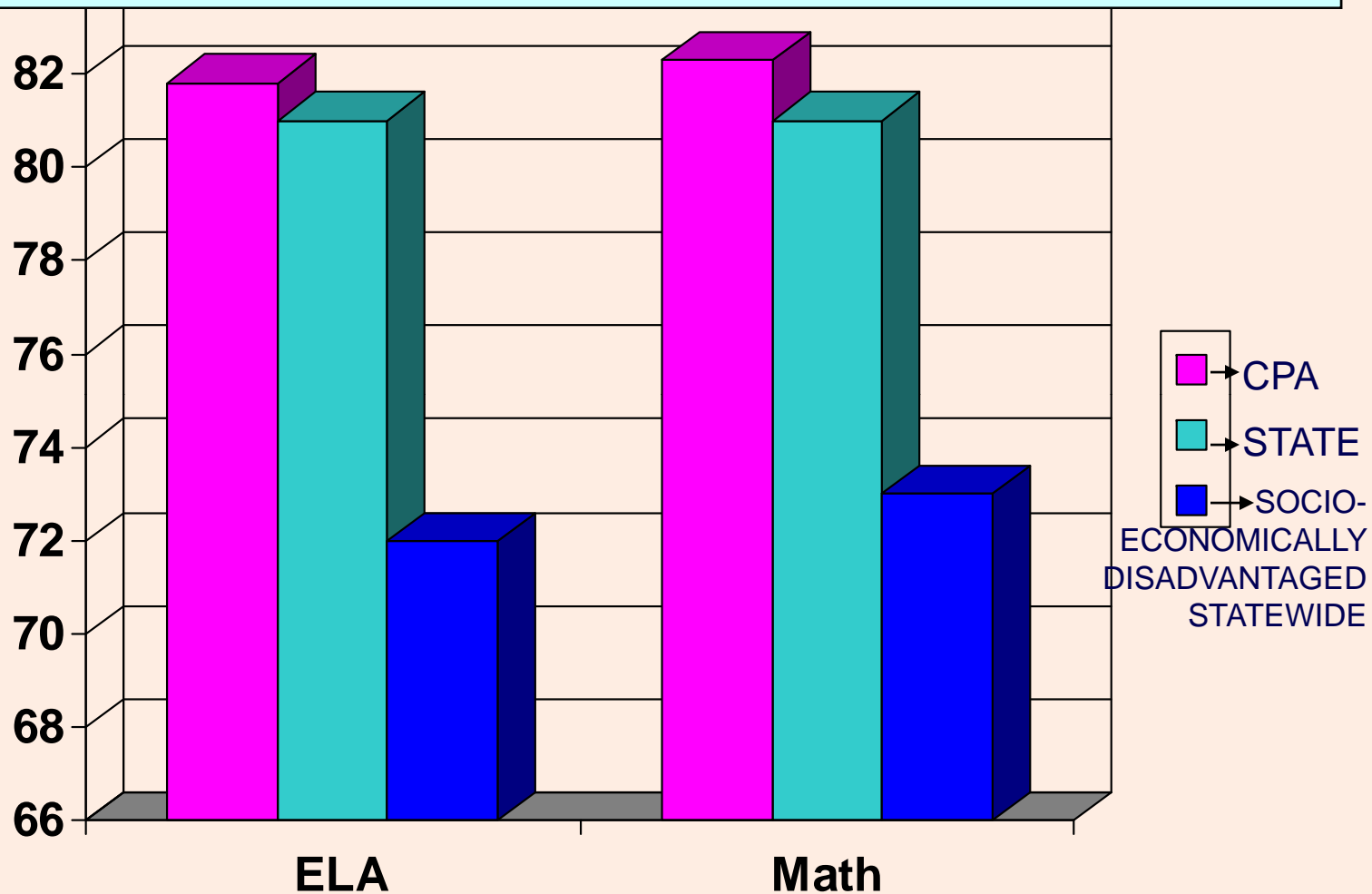
## Academies in Green-Related Industries: 163

- Agriculture and Natural Resources: 35
- Building Trades and Construction: 18
- Energy and Utilities: 36
- Engineering and Design: 50
- Manufacturing and Product Development: 9
- Transportation: 15

# CA HIGH SCHOOL EXIT EXAM, 2009-10, COMPARISON: CPA, STATEWIDE, DISADVANTAGED



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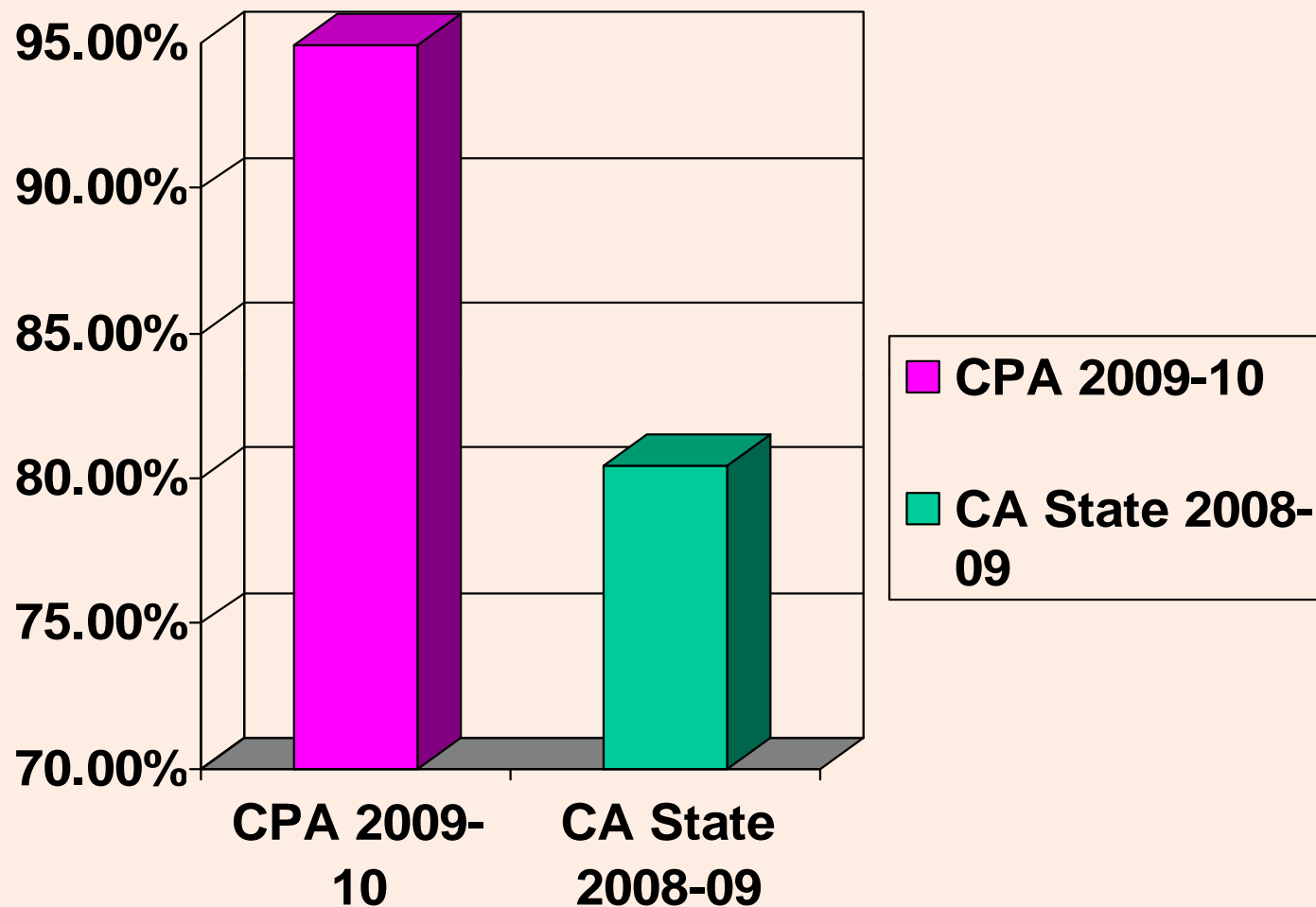


	ELA	Math
CPA	81.8	82.3
CA State	81	81
Socio-Econ. Disadvantaged	72	73



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## GRADUATION RATES – # graduates/12<sup>th</sup> grade enrollment

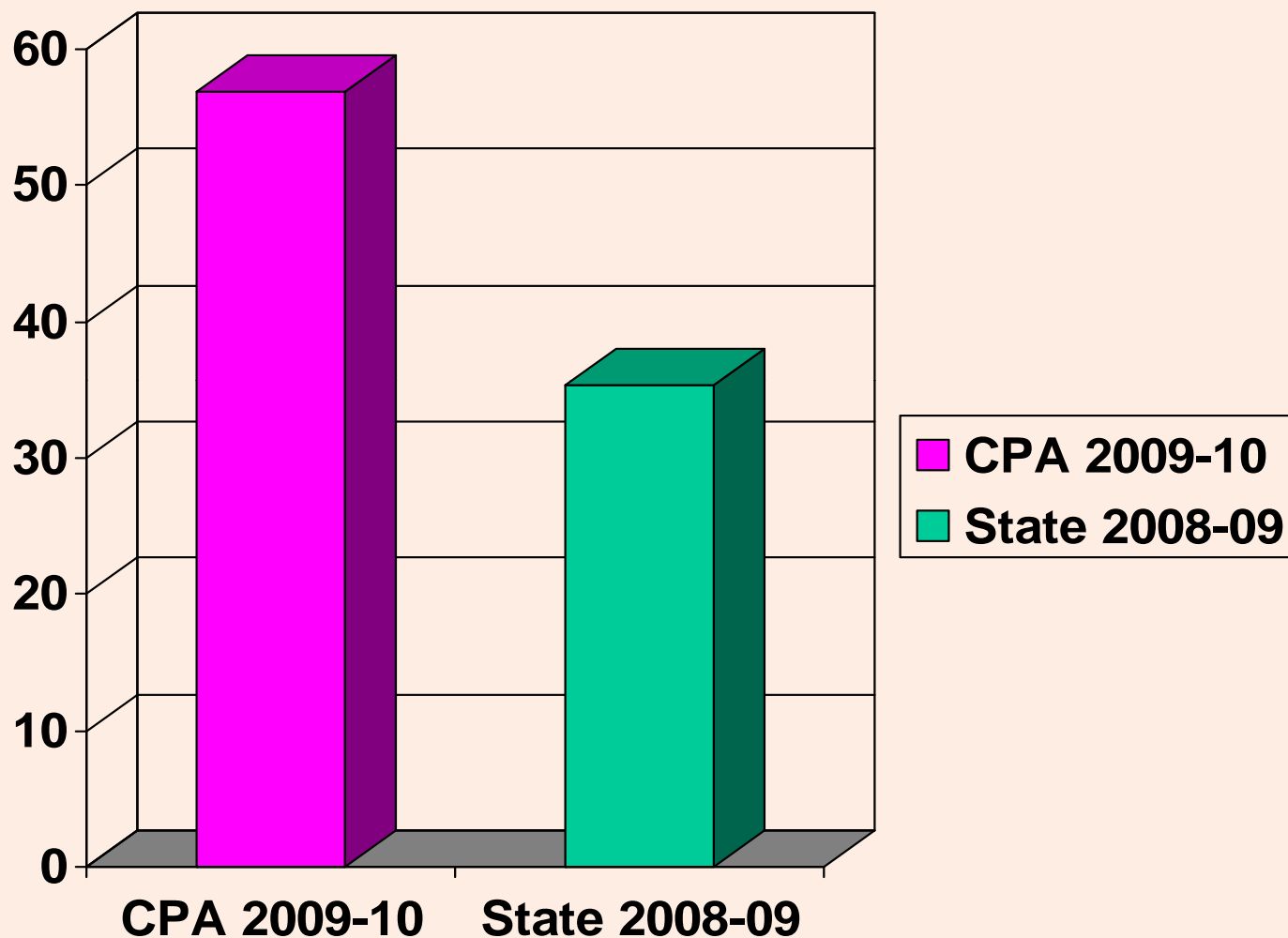


	CPA 2009-10	CA State 2008-09
12th Grade Grad	94.94%	80.43%



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## PERCENT GRADUATES MEETING UC/CSU A-G ENTRANCE REQUIREMENTS



	CPA 2009-10	State 2008-09
A-G UC/CSU	56.95	35.3



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# SBX1 1 (Steinberg, 2011)

- Facilitates a **partnership** between the CA Energy Commission and the CA Department of Education.
- Requires **guidelines** through the CEC for the development and support of California Partnership Academies as pertains to Clean Technology and Renewable Energy careers and workforce preparation.
- Includes **grade 9** in the CPA model
- Adjusts the **funding formula**
- Requires an **annual report** to the legislature.
- Follows the **CPA model** in all other respects, found in *EC 54690-54697*
- DOF provided funding for up to 21 academies



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# Goals of a CPA

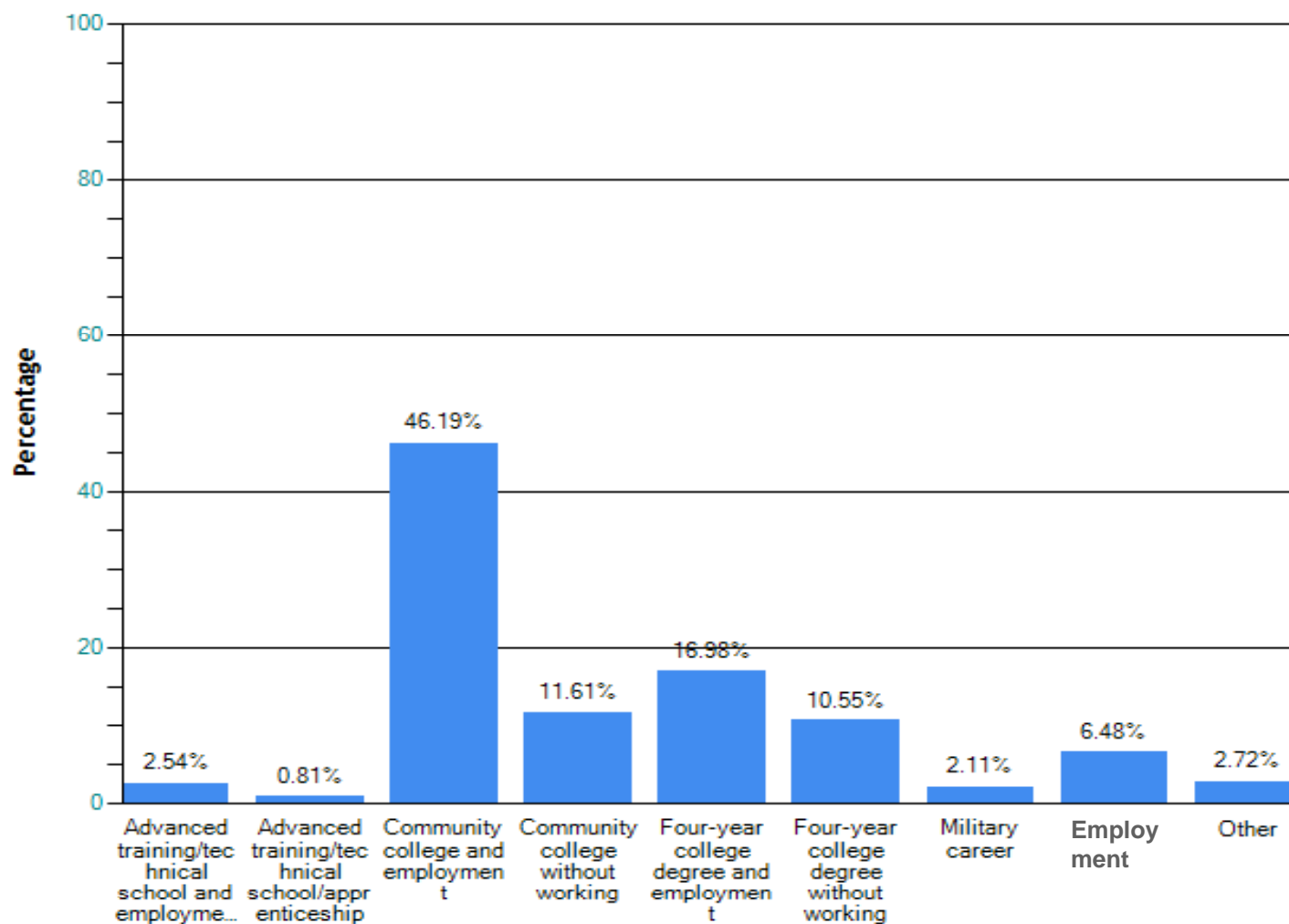
- Prepare students for success in post-secondary education
- Prepare students with skills and knowledge for successful entry into the workforce
- Inform, engage, motivate and support students so that they may develop and achieve their own career pathways and goals.





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## CPA POST-SECONDARY PLANS - SENIORS 2009-10





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# Student Selection

- Students Are:
  - Recruited
  - Volunteer
  - Recommended
  - Interviewed
  - Selected
    - 60-80 students  
or at least two full cohorts at grade 9
    - 50% At-Risk
  - Parent Permission to Participate





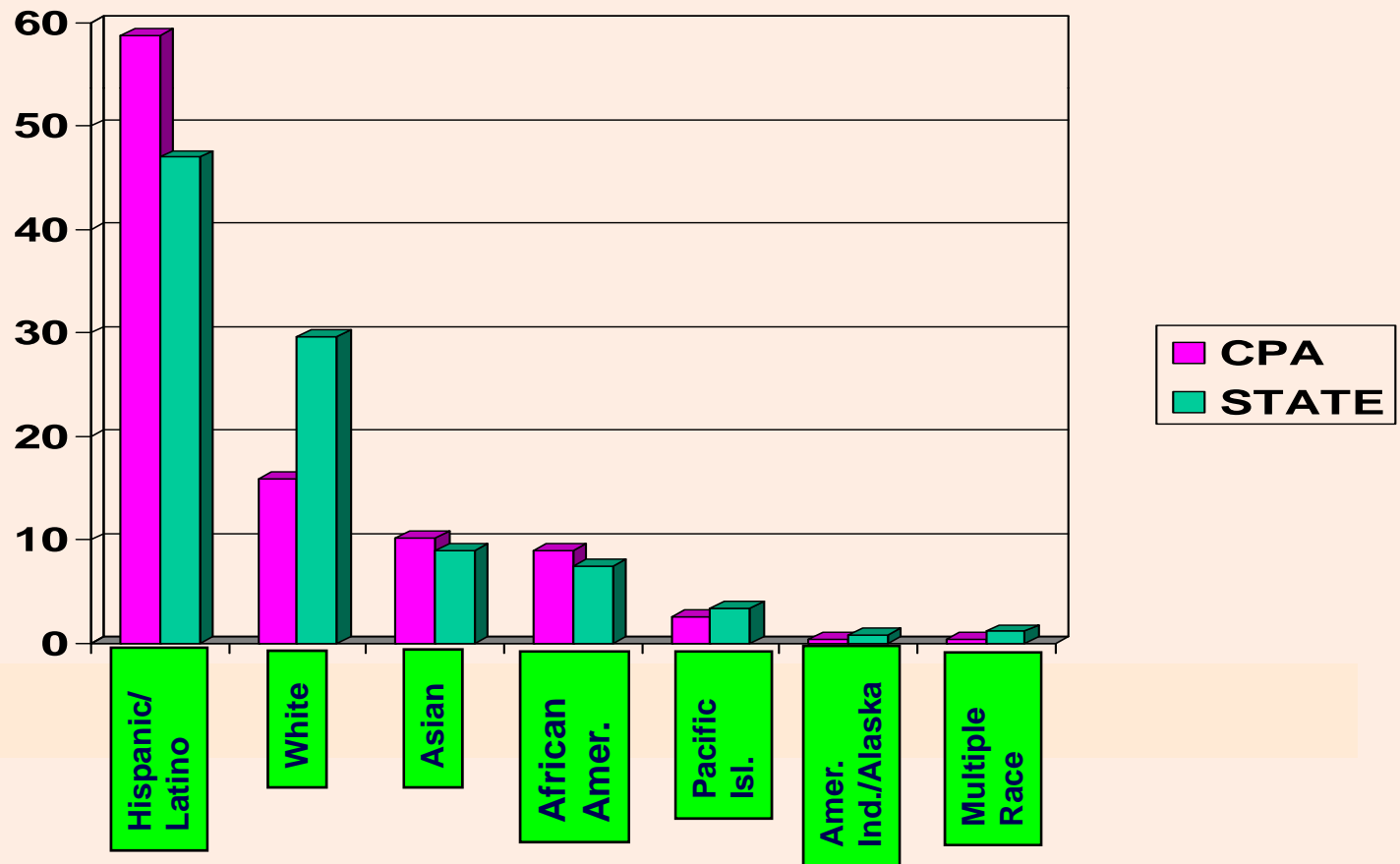
# 50% At-Risk Requirement

An "at-risk" pupil is indicated by at least three of the following criteria:

- Irregular attendance
- At least one-third of a year behind in credits
- Low motivation
- Disadvantaged economically
- Scoring below basic, or far below basic in English or Math on CA Standards Tests
- GPA of 2.2 or below

2009-10 Race/ Ethnicity	Hispanic or Latino	White	Asian	African American	Native Hawaiian or Other Pacific Islander	American Indian/ Alaska Native	Other Multiple Race	No Race Identified
CPA Totals	29,254	7,949	5,073	4,446	1,279	210	202	1,384
State Totals	694,523	436,726	131,884	110,957	50,058	11,755	17,213	22,041
<b>CPA %</b>	<b>58.74%</b>	<b>15.96%</b>	<b>10.19%</b>	<b>8.93%</b>	<b>2.57%</b>	<b>0.42%</b>	<b>0.41%</b>	<b>2.78%</b>
<b>State %</b>	<b>47%</b>	<b>29.61%</b>	<b>8.94%</b>	<b>7.52%</b>	<b>3.39%</b>	<b>0.8%</b>	<b>1.17%</b>	<b>1.49%</b>

## CPA RACE/ ETHNICITY STATISTICS 2009-10





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# Mentorships

In the eleventh grade, Academy students are matched with mentors.

Mentors are employees of participating businesses and members of community organizations who volunteer to be "career-related and/or caring adults" in the students' lives.



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# Internships

- Occur during the summer following the junior year or during the senior year.
- Require that students apply for positions as they would in the open market.
- Focus on understanding of the career field from a participant point of view
- May be paid or unpaid



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## Motivational Activities

- Speakers
- Field Trips
- Career Related Events & Competitions (CTSO's)
- Social, Fund-Raising, & other events to promote Leadership Skills Development
- Community Service
- Awards & Recognition
- Team Building
- Parent Participation
- Tutoring
- Celebrations of Successes



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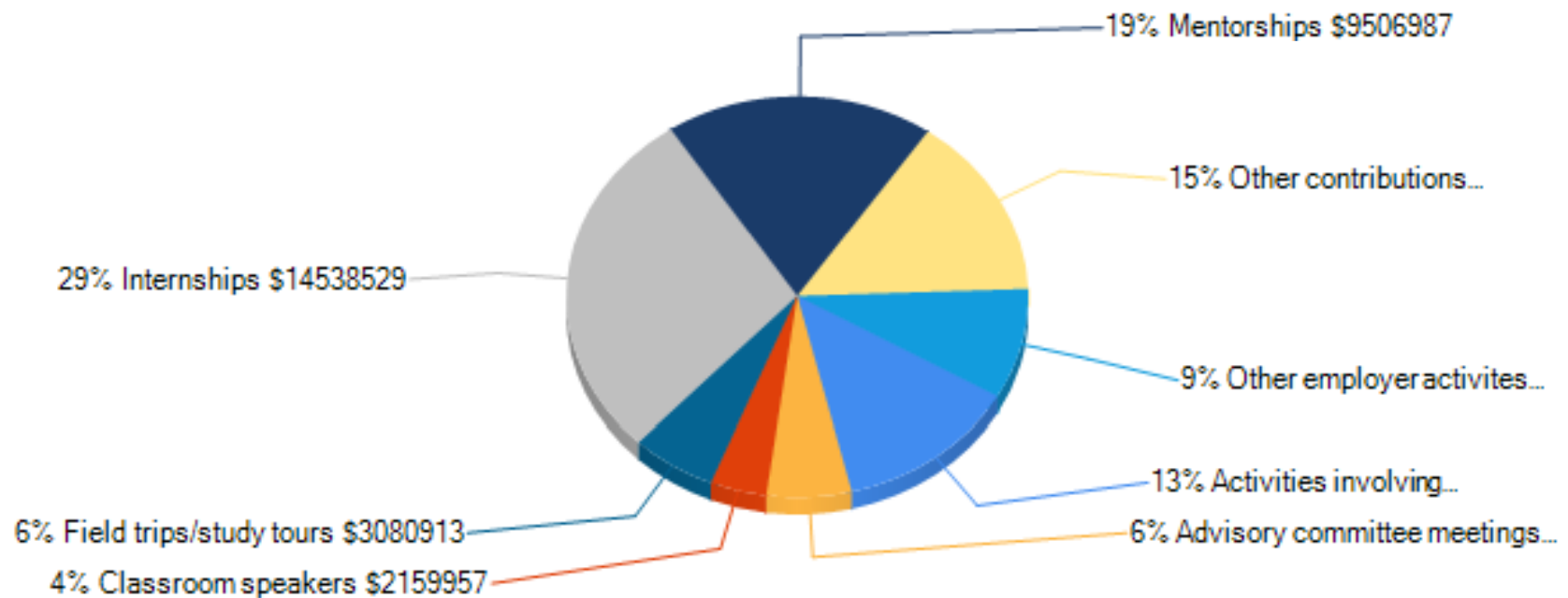
# Required Match & Use of Funds

In order to be eligible to receive funding, the academy must show:

- An amount equal to a 100 percent match of all state funds received in the form of direct and in-kind support
  - provided by the *district/school*.
  - provided by *partnering companies and private sector organizations*.
- State funds provided must be used only for the partnership academy.



## TYPES OF INDUSTRY SUPPORT CALIFORNIA PARTNERSHIP ACADEMIES

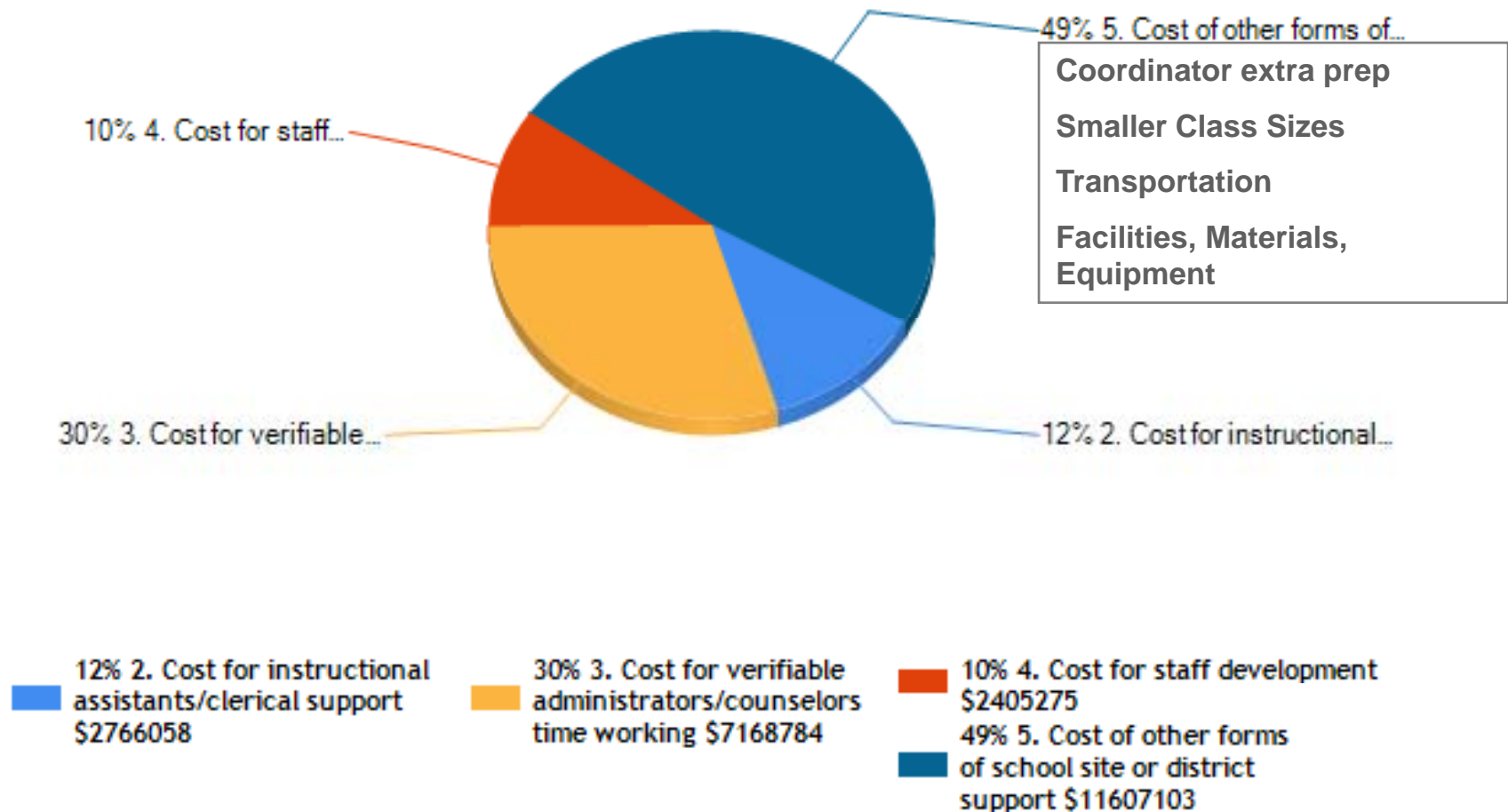


- 13% Activities involving employees \$6681962
- 6% Advisory committee meetings \$2800426
- 4% Classroom speakers \$2159957
- 6% Field trips/study tours \$3080913

- 29% Internships \$14538529
- 19% Mentorships \$9506987
- 15% Other contributions \$7505572
- 9% Other employer activities \$4545296



# TYPES OF DISTRICT & SCHOOL SUPPORT CALIFORNIA PARTNERSHIP ACADEMIES





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# FUNDING LEVELS

- Planning grant **\$15,000** – no match required
- First year implementation grant up to **\$45,000**, must qualify at least **45** students in grade **9** (**\$1,000** per qualified student);
- Second Year Implementation grant up to **\$80,000**, must qualify at least **80** students in grades **9 & 10** (**\$1,000** per qualified student);
- Third Year Implementation grant up to **\$120,000**, must qualify at least **120** students in grades **9 – 11** (**\$1,000** per qualified student)
- Fourth + Years Implementation grants up to **\$150,000**, must qualify at least **150** students in grades **9 - 12** (**\$1000** per qualified student).



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# CPA Funding Definition: “Qualified Student”

- At least 80% attendance
- At least 90 % credits earned yearly
- Successfully graduates 12<sup>th</sup> grade



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# SBX1 1 Industry Sectors

- Energy and Utilities
- Building Trades and Construction
- Engineering and Design
- Manufacturing and Product Development
- Agriculture and Natural Resources
- Transportation
- Marketing, Sales and Service



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# Anticipated Challenges

- Accessing qualified **teachers** for the CTE courses
  - Existing CTE teachers
  - Industry representatives interested in teaching, available to teach, and qualify for CTE credential
  - Community college or technical school teachers
- **Training** new and existing CTE teachers on clean/green aspects of industry



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# Anticipated Challenges

- **Facilities**, equipment and supplies (funding and access)
- Informing and recruiting **industry participation**
- Informing and recruiting **postsecondary participation**



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# Advantages

The funding for **many successful academies** will expire in June, 2012. That provides a large pool to choose from:

- Currently 48 “green” CPAs funded through AB519
- Currently 48 SB70 CPAs focused on careers related to clean technology and renewable energy



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# Advantages

- Existing and developing **partnerships**
  - with the clean tech and renewable energy **industries**
  - with **post-secondary** education
  - between the **CEC, CDE, the industry, and the legislature**
- Public and private **interest** in this project
- A **workforce and economic need** for this project to succeed



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# Questions or Input?





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# *Thank You*

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CPA Website:

<http://www.cde.ca.gov/ci/gs/hs/cpagen.asp>

Career Academy Support Network CPA Website:

<http://casn.berkeley.edu/cpa.php>

