

California Climate Policy: Opportunities (& Threats) to Clean Technology Development

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Climate policy as driver of innovation and change

- A price on carbon unleashes innovation and makes green energy competitive.
- California's leadership drives national action on energy and climate.

California's Global Warming Solution's Act (AB 32)

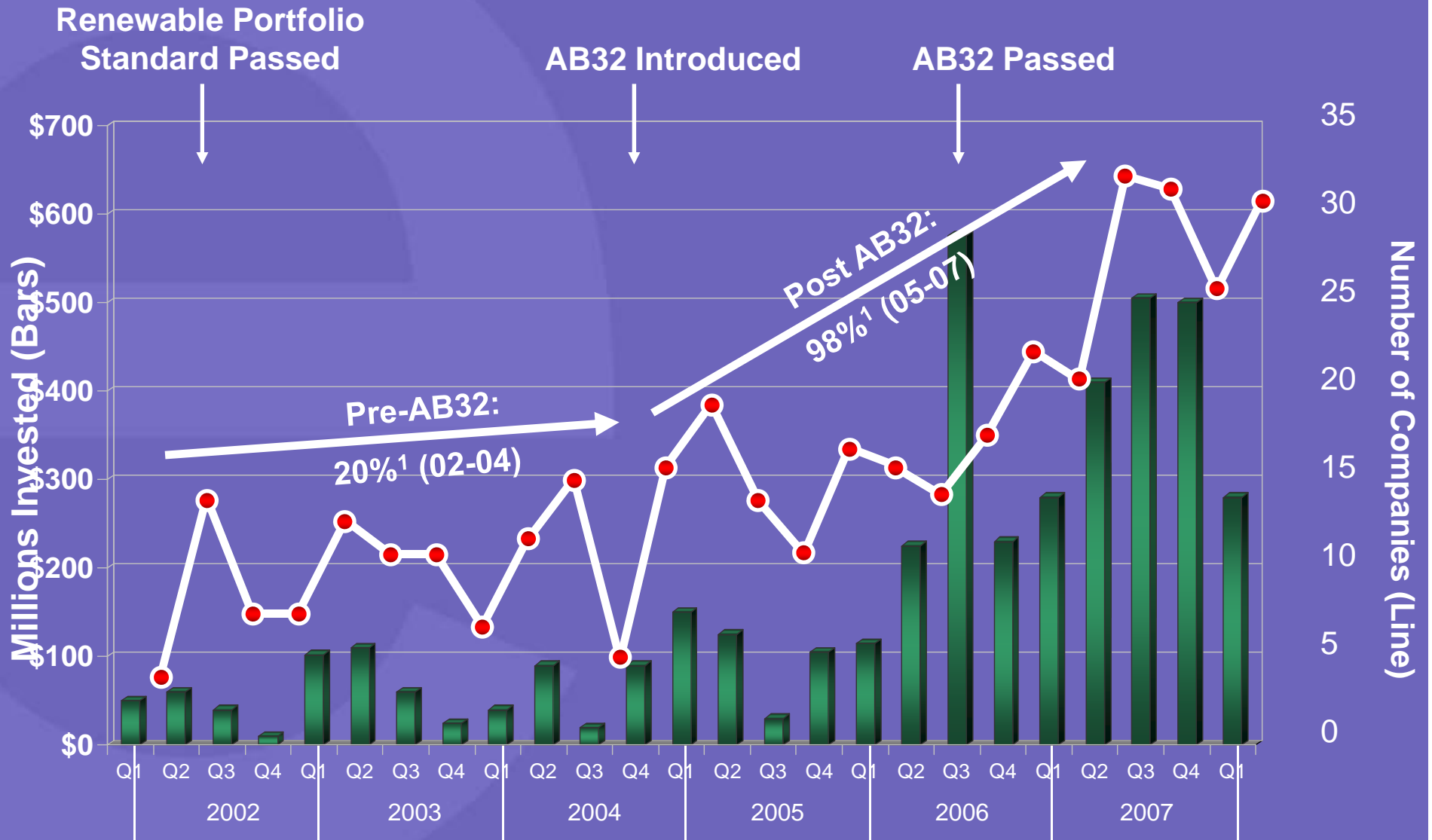
- Economy-wide cap on emissions
 - 1990 Emissions by 2020
 - 80% below 1990 by 2050
- Scoping plan for regulations completed, rule making in 2010

Scoping Plan Measures

- Utilities
 - Renewable Power
 - Efficiency
- Vehicles
 - Emissions Standards
 - Low Carbon Fuels
 - Vehicle Mileage
- Cap-and-trade
 - Refiners
 - Utilities
 - Cement
 - Offsets
 - Transportation Fuels (later)

ENVIRONMENTAL DEFENSE FUND

Green Investment in California

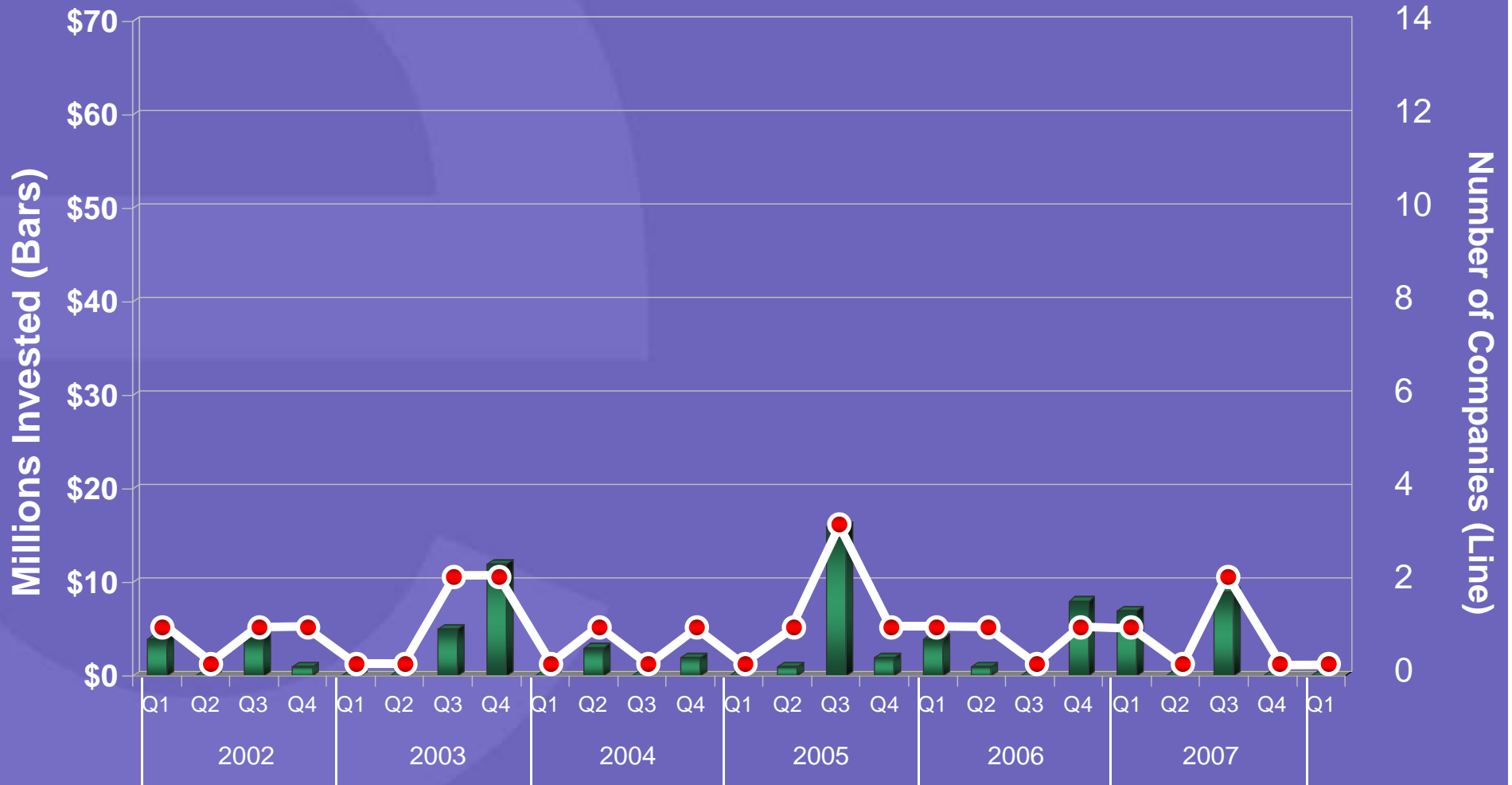


Source: Cleantech Group

¹ Compound Annual Growth Rates

Green Investment in Ohio

Numbers are 10x smaller than California chart



ENVIRONMENTAL DEFENSE FUND

2020 Jobs compared to Business-as-Usual

Jobs Effects of Scoping Plan Measures in 2020

Sector

Agriculture, Forestry and
Fishing

+15,000

Utilities

-9,000

Construction

+4,000

Manufacturing

+9,000

Wholesale Trade

+1,000

Retail Trade

-14,000

Transportation and
Warehousing

+3,000

Information

+2,000

Finance, Insurance and Real
Estate

+18,000

Services

+40,000

Government

+12,000

Total

+109,000



www.lesscarbonmorejobs.com

**“There are over 8,000 parts
in a wind turbine.”**

-- Liz Salerno, AWEA

44 MW Project

- **29 wind turbines**
- **6,500 tons of steel**
- **600 tons of fiberglass**
- **12,500 tons of concrete**

EDF's Green Economy Mapping: 2,200 businesses in California



Company types

-  Green buildings
-  Energy generation
-  Energy efficiency
-  Transportation

Filter this map

By City

By District

Orange

Reset Map

Current threats to AB 32

- Legislative attacks on AB 32 and cap-and-trade component.
- Efforts to weaken rule making at the California Air Resources Board.
- Ballot measure possible in 2010 to suspend AB 32.