Energy, Economic and Climate Indicators

All U.S. States & D.C.

FEBRUARY, 2021

E4 THE FUTURE
ENERGY • ECONOMY • EQUITY • ENVIRONMENT

Since 1990, the US economy has produced robust economic output with significantly lower energy use and fewer emissions. Tracking such data trends enables a clarifying analysis of public policy impacts.

Energy, Economic and Climate Indicators

Context

Since 1990, the US economy became much more efficient, producing high volumes of economic output with less energy use and fewer emissions. Tracking publicly available metrics over time provides an invaluable method to assess progress of the combined impact of public policies at both national and state levels.

1990 is an appropriate baseline because:

1. Over the last three decades, and particularly over the last decade, economic growth frequently has occurred independent of electric load growth or increased reliance upon fossil fuel consumption.

2. Many local, national, and international climate targets were set as reductions in greenhouse gas emissions from 1990.

Between 1990 and 2018, national Gross Domestic Product (GDP) more than doubled, population grew by nearly a third, energy use increased by 20 percent, and sector-wide industrial energy use increased by 3 percent. Yet after rising during the 1990s-2000s, nationwide emissions fell in the past decade to be only 5 percent higher than emissions in 1990. These trends become even more apparent when focusing on changes to economic and environmental indicators following the 2008-09 recession. While cumulative Gross State Product (GSP) grew by 19 percent from 2010-18, energy use grew by just 4 percent, electricity consumption dropped by 4 percent, and nationwide emissions dropped by 5 percent. Since the recession, the economy grew while emissions declined substantially.

Data Sources

Emissions data comes from the EIA tables on State Carbon Dioxide Emissions from Fossil Fuels:

https://www.eia.gov/environment/emissions/state/

All other data comes from the EIA State Energy Data System (SEDS) database:

https://www.eia.gov/state/seds/seds-data-fuel.php?sid=US#DataFiles

Using the following MSN Codes:

Population: TPOP
Gross State Product: GDPRX
Total Energy Use: TETCB
Industrial Energy Use: TEICB

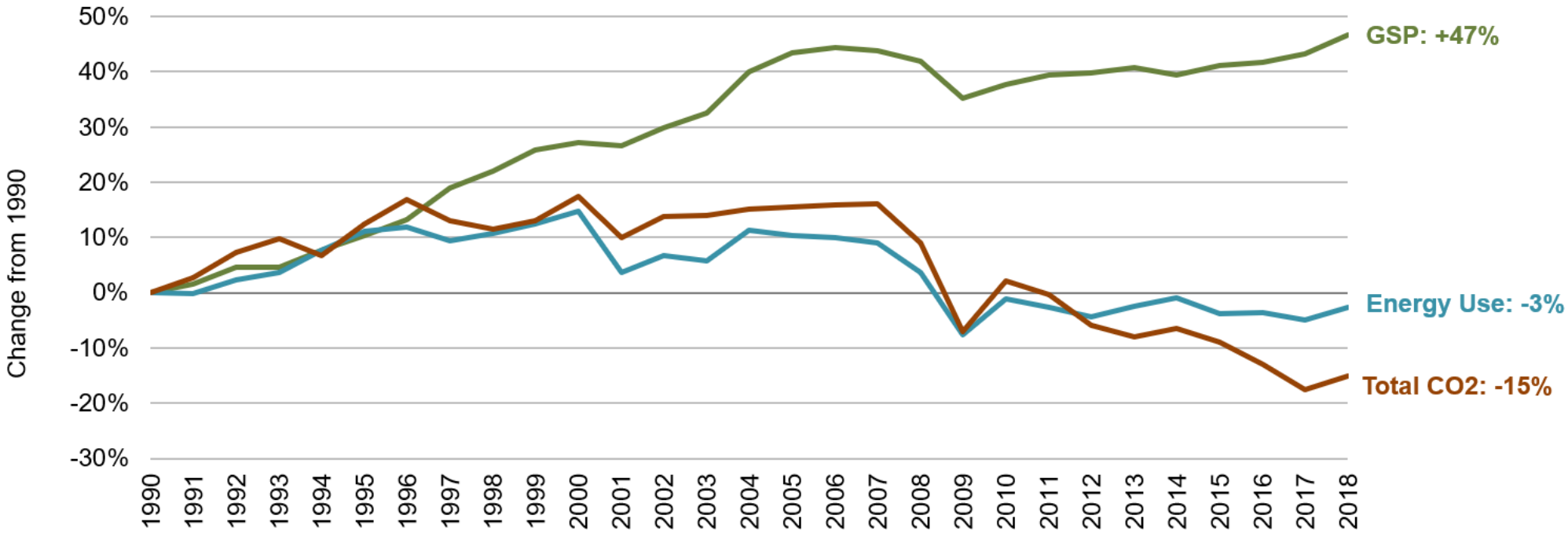
© 2018-21 E4TheFuture Inc. All rights reserved.

Since 1990, the US economy has produced robust economic output with significantly lower energy use and fewer emissions. Tracking such data trends enables a clarifying analysis of public policy impacts.

Per Capita Energy, Economic and Climate Indicators

E4THE FUTURE
ENERGY • ECONOMY • EQUITY • ENVIRONMENT

Alabama
1990-2018



© 2018-21 E4TheFuture Inc. All rights reserved.

Visit E4TheFuture.org

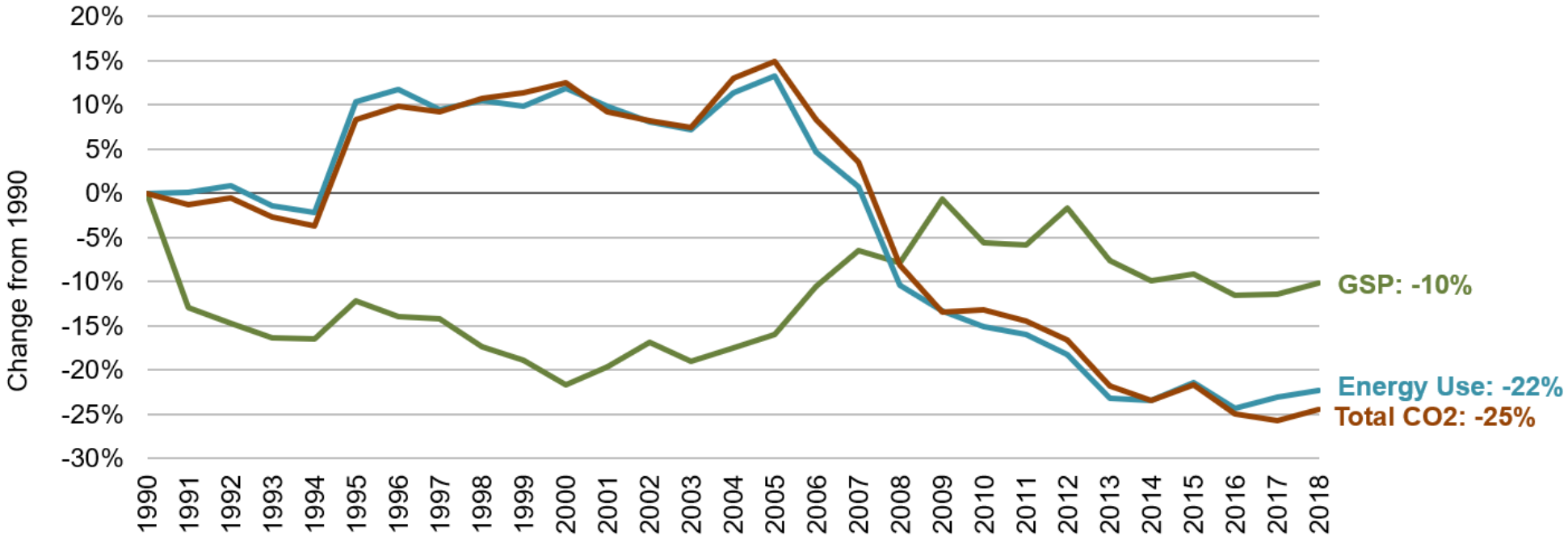
@FacesOfEE

Since 1990, the US economy has produced robust economic output with significantly lower energy use and fewer emissions. Tracking such data trends enables a clarifying analysis of public policy impacts.

Per Capita Energy, Economic and Climate Indicators

E4THE FUTURE
ENERGY • ECONOMY • EQUITY • ENVIRONMENT

Alaska
1990-2018



© 2018-21 E4TheFuture Inc. All rights reserved.

Visit E4TheFuture.org

@FacesOfEE

Since 1990, the US economy has produced robust economic output with significantly lower energy use and fewer emissions. Tracking such data trends enables a clarifying analysis of public policy impacts.

Per Capita Energy, Economic and Climate Indicators

E4THE FUTURE
ENERGY • ECONOMY • EQUITY • ENVIRONMENT

Arizona
1990-2018

© 2018-21 E4TheFuture Inc. All rights reserved.

Visit E4TheFuture.org

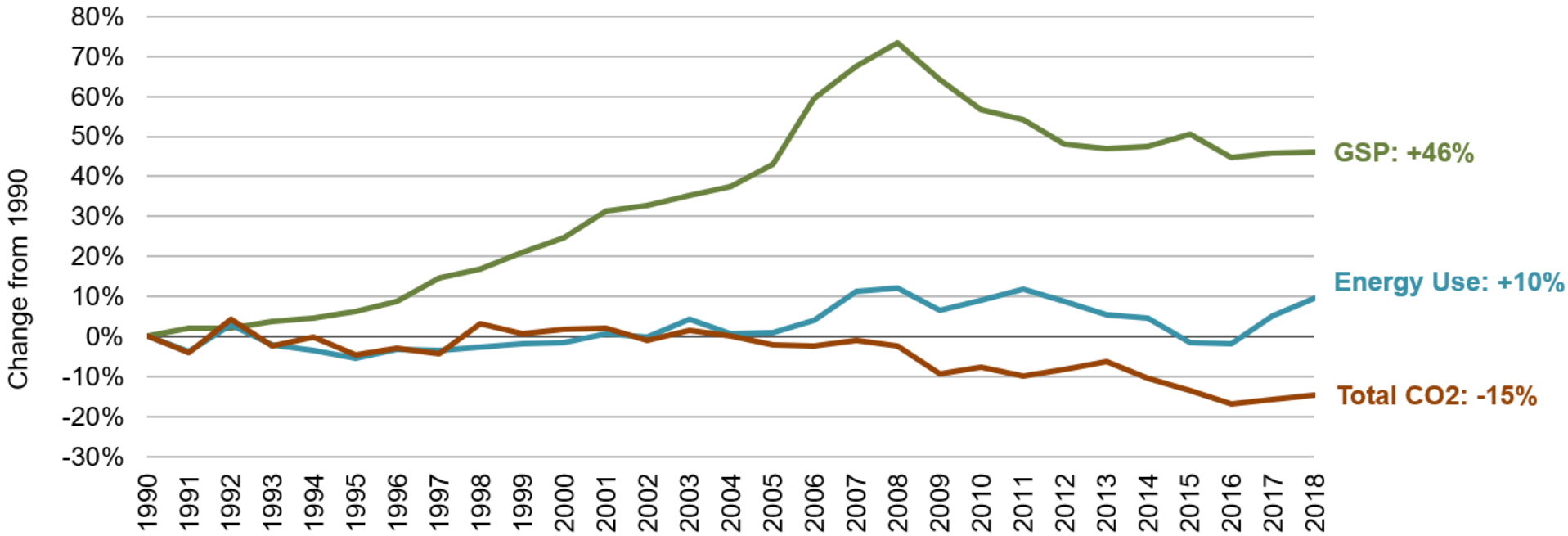
@FacesOfEE

Since 1990, the US economy has produced robust economic output with significantly lower energy use and fewer emissions. Tracking such data trends enables a clarifying analysis of public policy impacts.

Per Capita Energy, Economic and Climate Indicators

E4 THE FUTURE
ENERGY • ECONOMY • EQUITY • ENVIRONMENT

Arkansas
1990-2018



© 2018-21 E4TheFuture Inc. All rights reserved.

Visit E4TheFuture.org

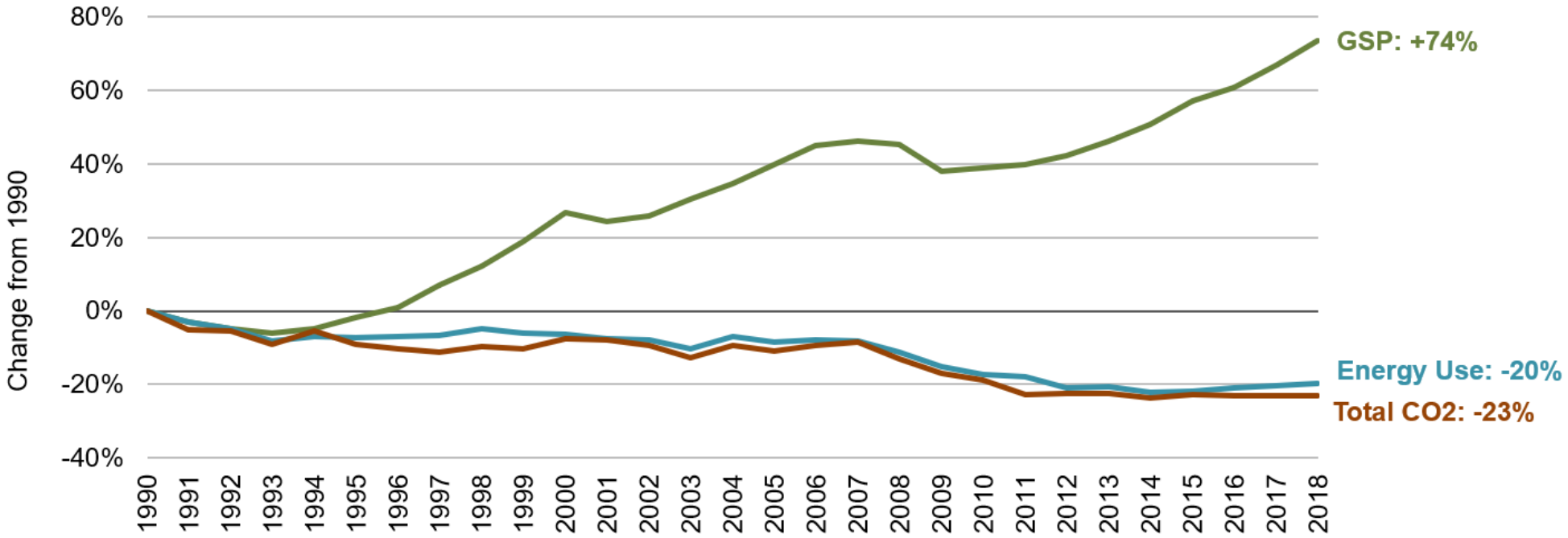
@FacesOfEE

Since 1990, the US economy has produced robust economic output with significantly lower energy use and fewer emissions. Tracking such data trends enables a clarifying analysis of public policy impacts.

Per Capita Energy, Economic and Climate Indicators

E4THE FUTURE
ENERGY • ECONOMY • EQUITY • ENVIRONMENT

California
1990-2018



© 2018-21 E4TheFuture Inc. All rights reserved.

Visit E4TheFuture.org

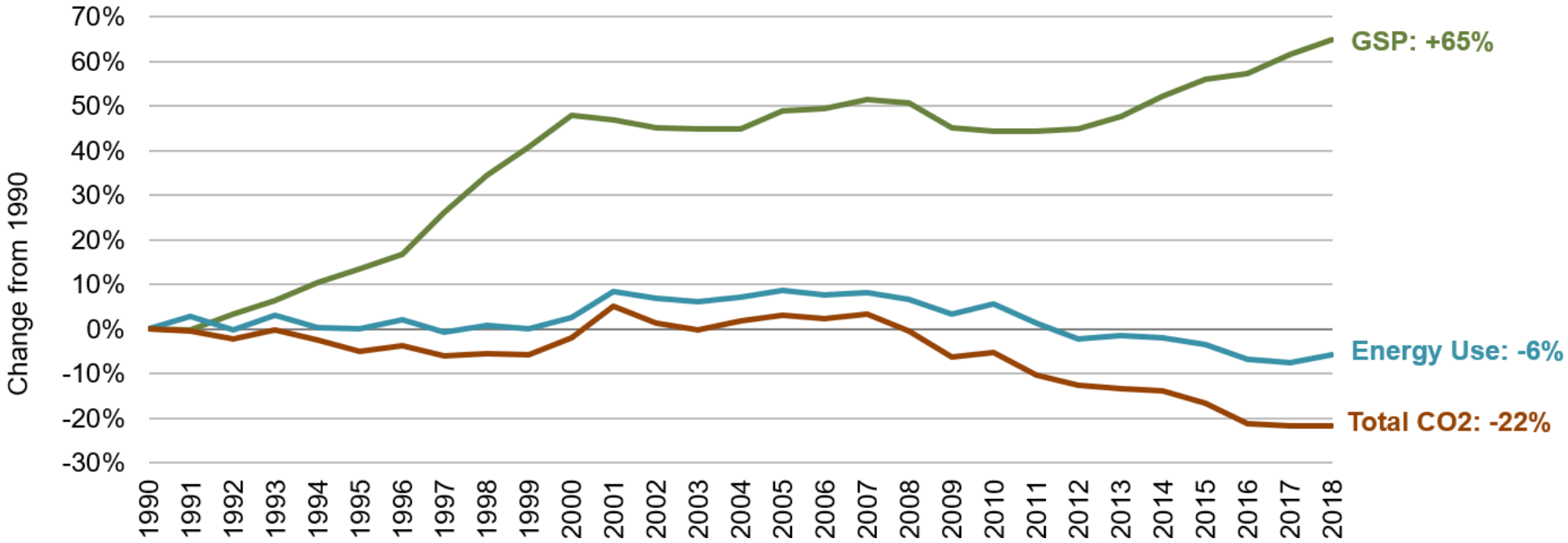
@FacesOfEE

Since 1990, the US economy has produced robust economic output with significantly lower energy use and fewer emissions. Tracking such data trends enables a clarifying analysis of public policy impacts.

Per Capita Energy, Economic and Climate Indicators

E4THE FUTURE
ENERGY • ECONOMY • EQUITY • ENVIRONMENT

Colorado
1990-2018



© 2018-21 E4TheFuture Inc. All rights reserved.

Visit E4TheFuture.org

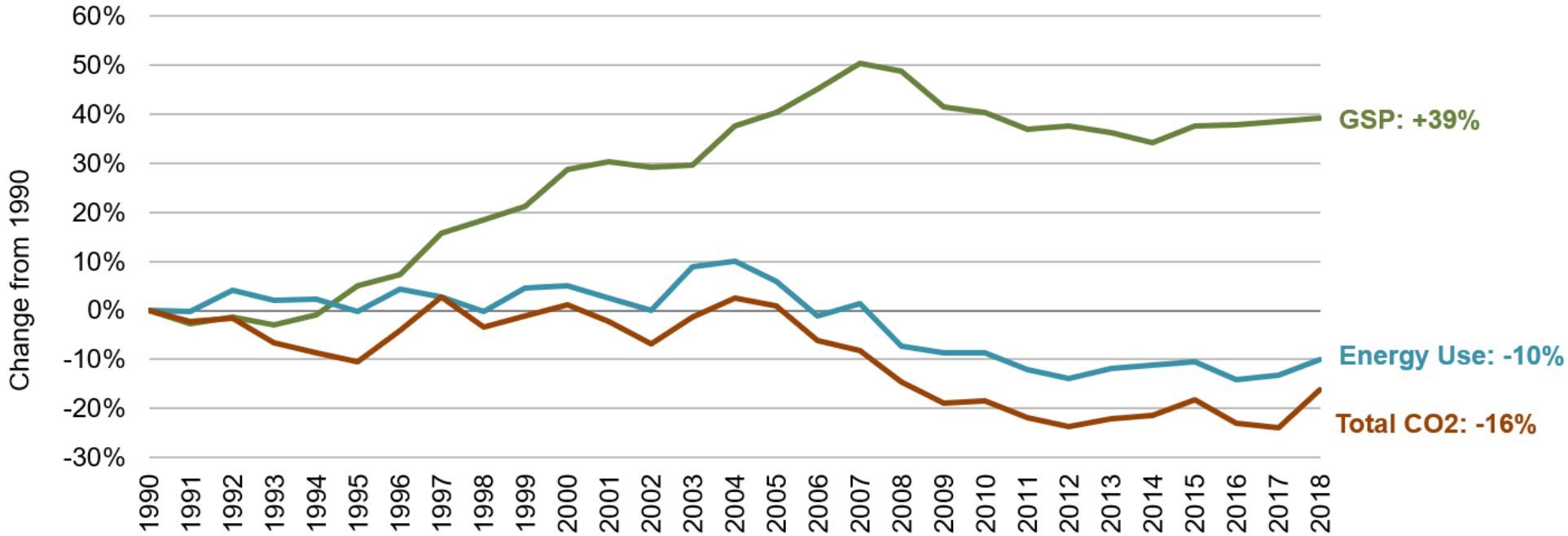
@FacesOfEE

Since 1990, the US economy has produced robust economic output with significantly lower energy use and fewer emissions. Tracking such data trends enables a clarifying analysis of public policy impacts.

Per Capita Energy, Economic and Climate Indicators

E4THE FUTURE
ENERGY • ECONOMY • EQUITY • ENVIRONMENT

Connecticut 1990-2018



© 2018-21 E4TheFuture Inc. All rights reserved.

Visit E4TheFuture.org

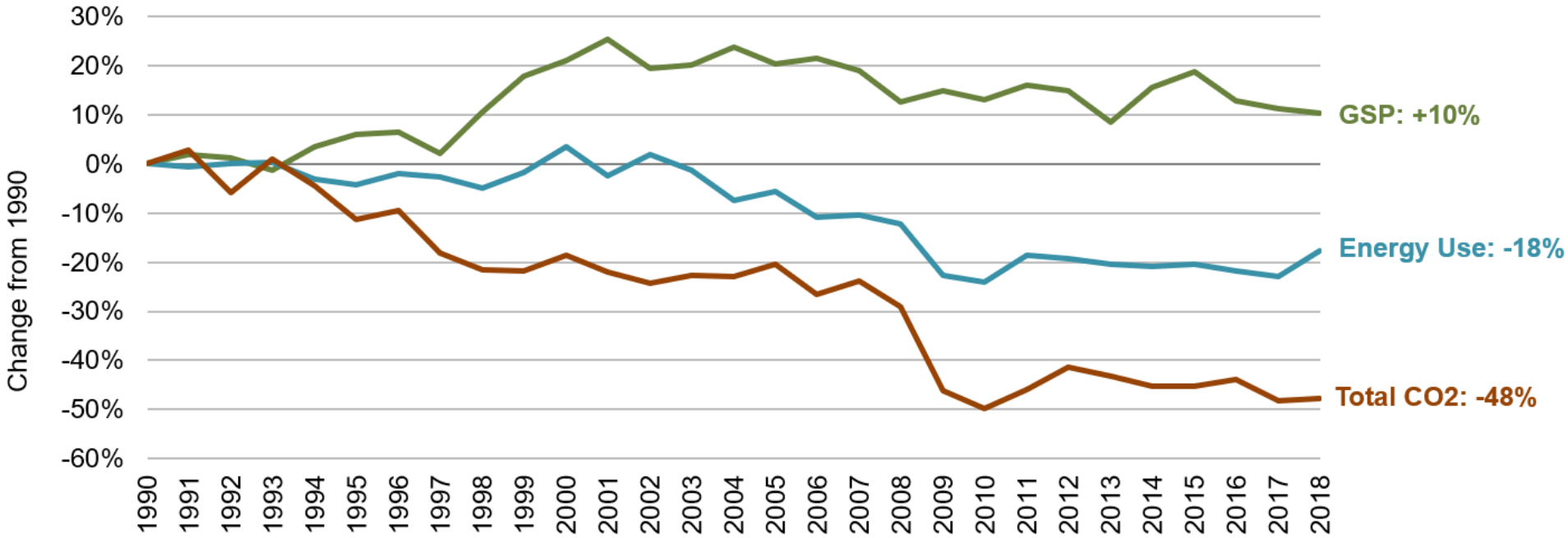
@FacesOfEE

Since 1990, the US economy has produced robust economic output with significantly lower energy use and fewer emissions. Tracking such data trends enables a clarifying analysis of public policy impacts.

Per Capita Energy, Economic and Climate Indicators

E4THE FUTURE
ENERGY • ECONOMY • EQUITY • ENVIRONMENT

Delaware
1990-2018



© 2018-21 E4TheFuture Inc. All rights reserved.

Visit E4TheFuture.org

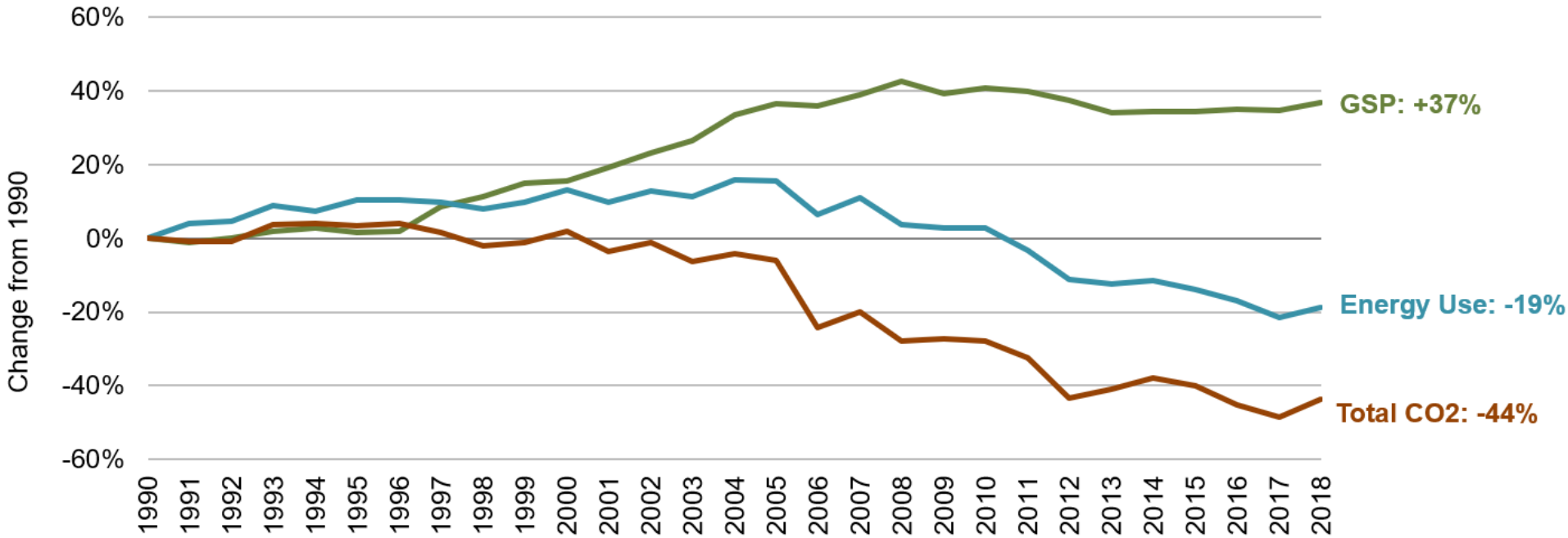
@FacesOfEE

Since 1990, the US economy has produced robust economic output with significantly lower energy use and fewer emissions. Tracking such data trends enables a clarifying analysis of public policy impacts.

Per Capita Energy, Economic and Climate Indicators

E4THE FUTURE
ENERGY • ECONOMY • EQUITY • ENVIRONMENT

District of Columbia 1990-2018



© 2018-21 E4TheFuture Inc. All rights reserved.

Visit E4TheFuture.org

@FacesOfEE

Since 1990, the US economy has produced robust economic output with significantly lower energy use and fewer emissions. Tracking such data trends enables a clarifying analysis of public policy impacts.

Per Capita Energy, Economic and Climate Indicators

E4THE FUTURE
ENERGY • ECONOMY • EQUITY • ENVIRONMENT

Florida
1990-2018

© 2018-21 E4TheFuture Inc. All rights reserved.

Visit E4TheFuture.org

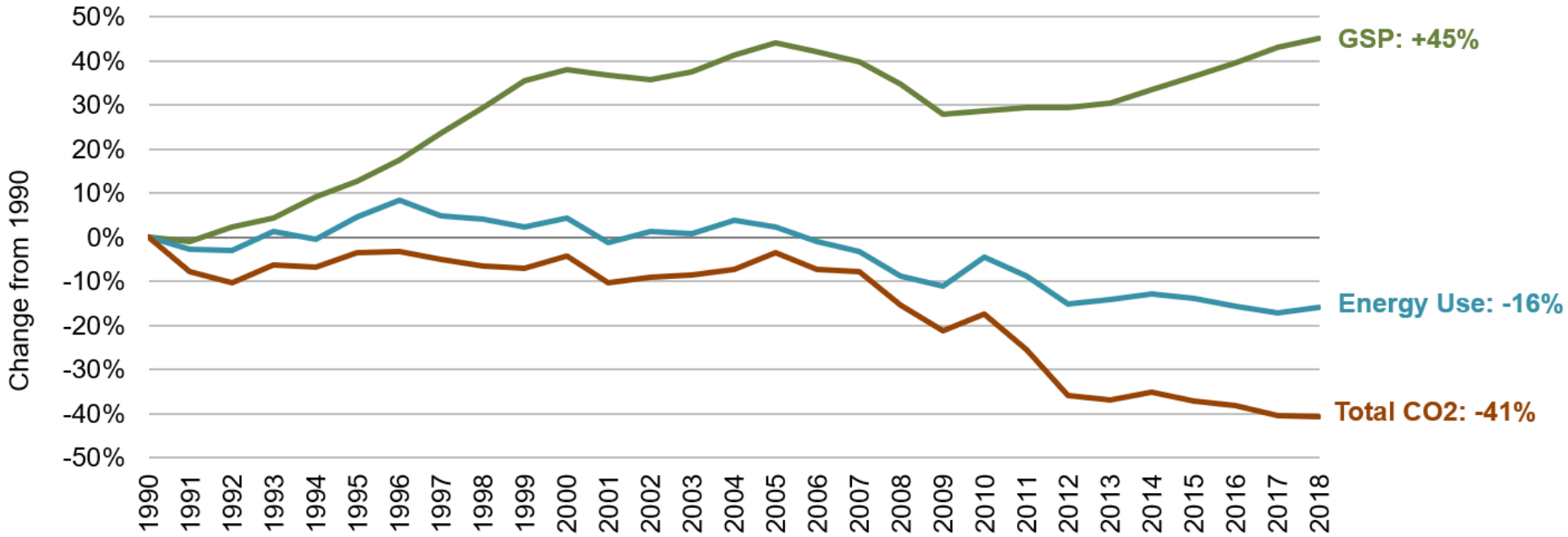
@FacesOfEE

Since 1990, the US economy has produced robust economic output with significantly lower energy use and fewer emissions. Tracking such data trends enables a clarifying analysis of public policy impacts.

Per Capita Energy, Economic and Climate Indicators

E4 THE FUTURE
ENERGY • ECONOMY • EQUITY • ENVIRONMENT

Georgia
1990-2018



© 2018-21 E4TheFuture Inc. All rights reserved.

Visit E4TheFuture.org

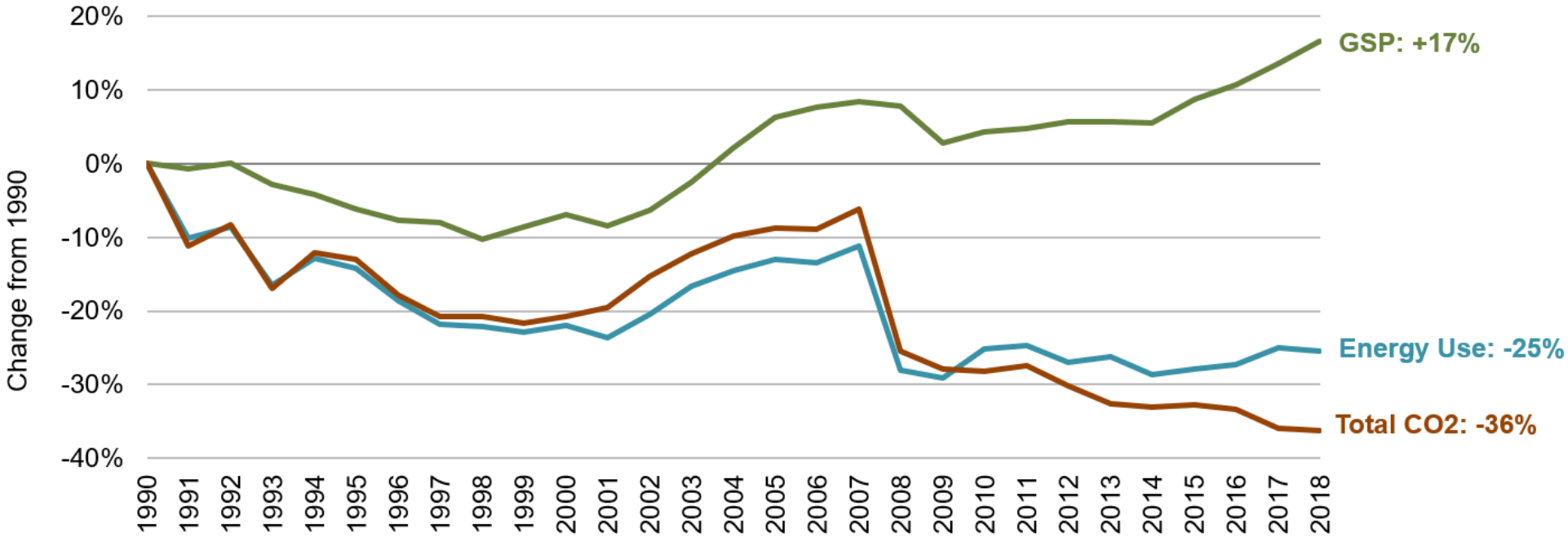
@FacesOfEE

Since 1990, the US economy has produced robust economic output with significantly lower energy use and fewer emissions. Tracking such data trends enables a clarifying analysis of public policy impacts.

Per Capita Energy, Economic and Climate Indicators

E4THE FUTURE
ENERGY • ECONOMY • EQUITY • ENVIRONMENT

Hawaii
1990-2018



© 2018-21 E4TheFuture Inc. All rights reserved.

Visit E4TheFuture.org

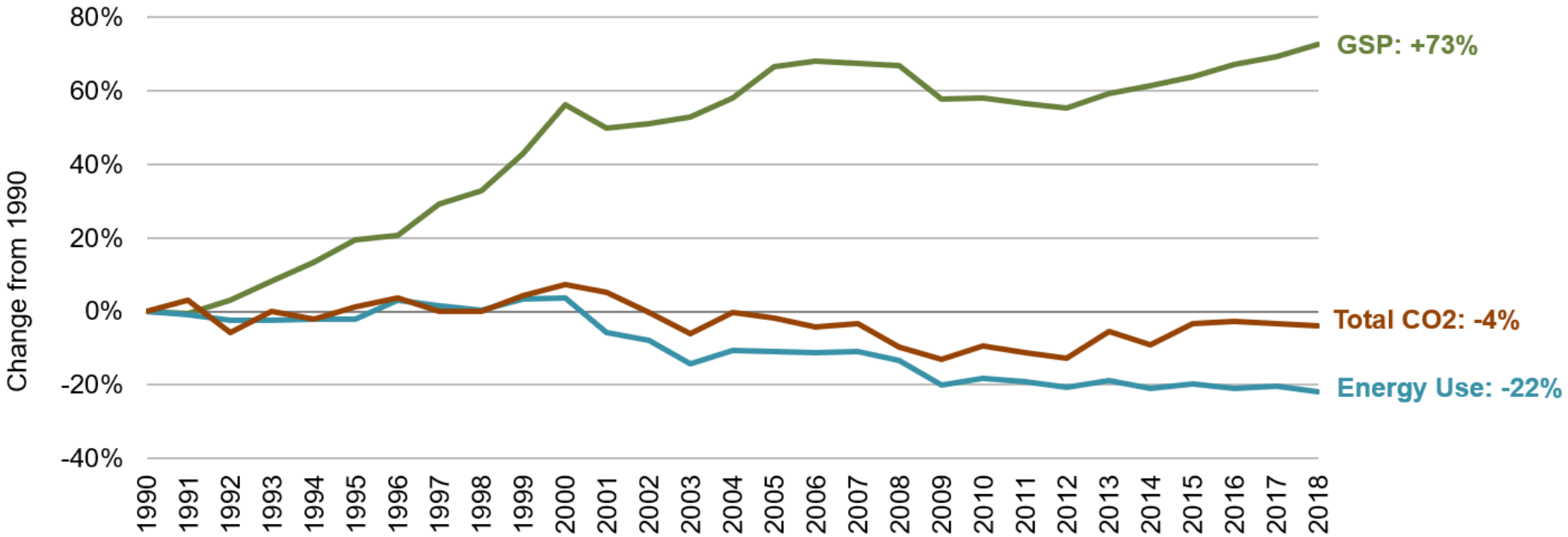
@FacesOfEE

Since 1990, the US economy has produced robust economic output with significantly lower energy use and fewer emissions. Tracking such data trends enables a clarifying analysis of public policy impacts.

Per Capita Energy, Economic and Climate Indicators

E4THE FUTURE
ENERGY • ECONOMY • EQUITY • ENVIRONMENT

Idaho
1990-2018



© 2018-21 E4TheFuture Inc. All rights reserved.

Visit E4TheFuture.org

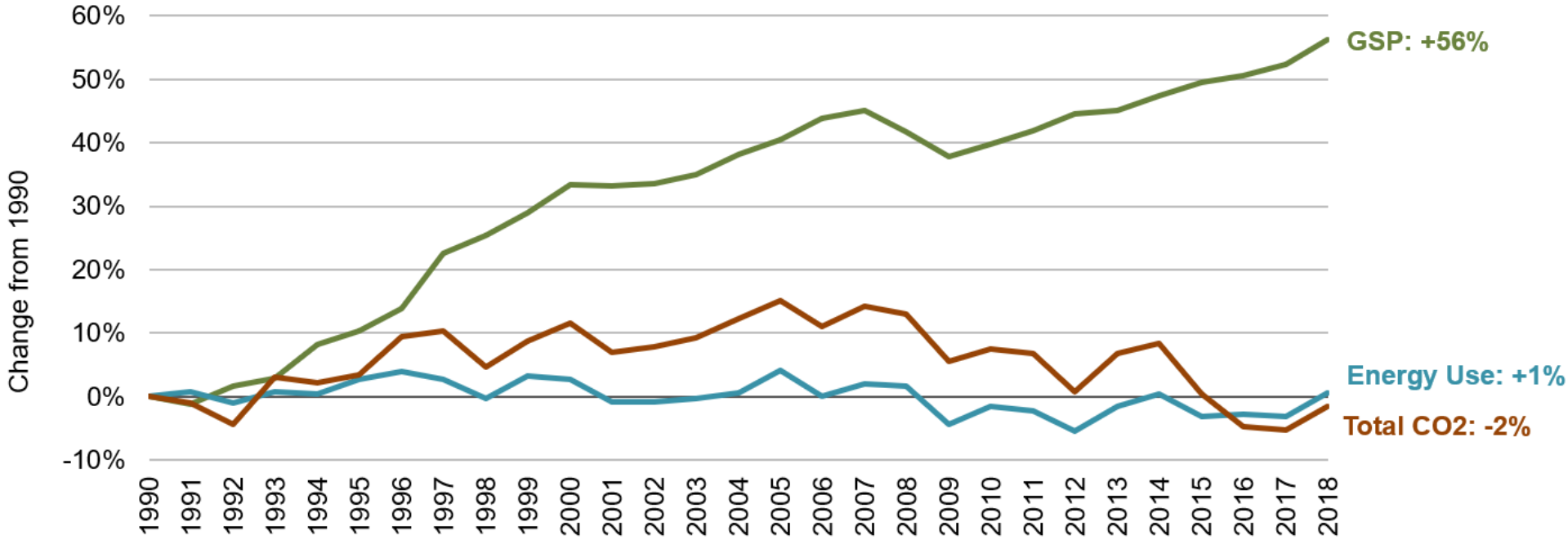
@FacesOfEE

Since 1990, the US economy has produced robust economic output with significantly lower energy use and fewer emissions. Tracking such data trends enables a clarifying analysis of public policy impacts.

Per Capita Energy, Economic and Climate Indicators

E4 THE FUTURE
ENERGY • ECONOMY • EQUITY • ENVIRONMENT

Illinois
1990-2018



© 2018-21 E4TheFuture Inc. All rights reserved.

Visit E4TheFuture.org

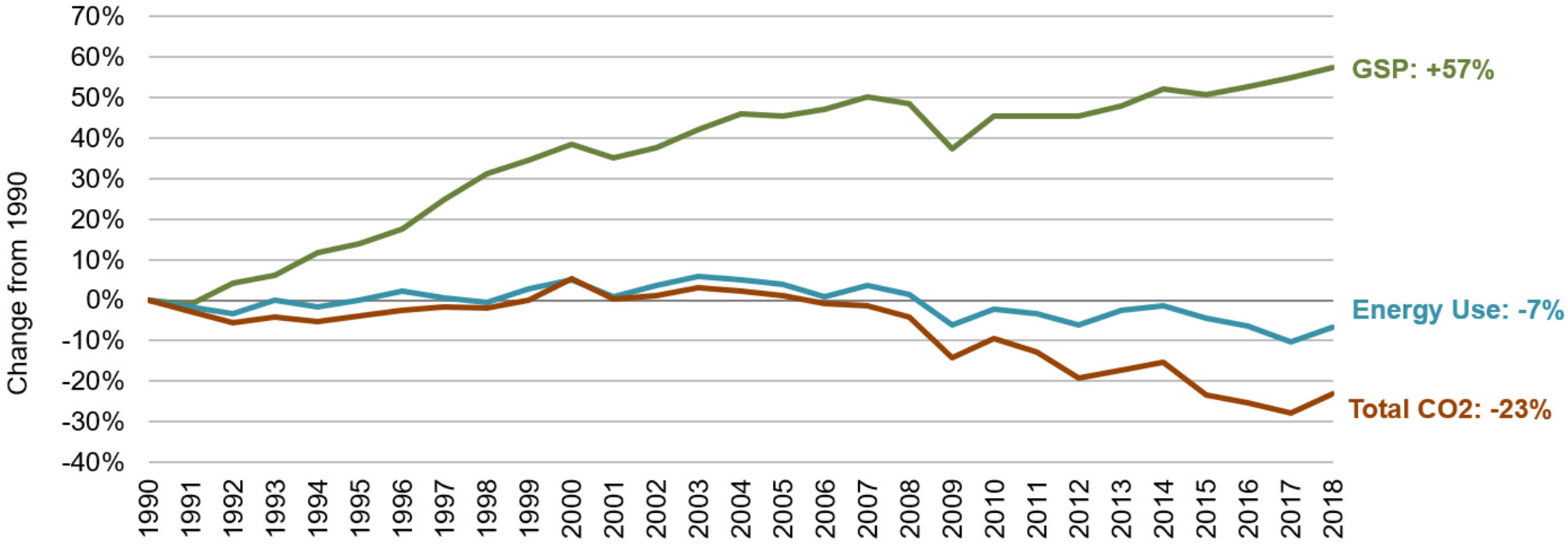
@FacesOfEE

Since 1990, the US economy has produced robust economic output with significantly lower energy use and fewer emissions. Tracking such data trends enables a clarifying analysis of public policy impacts.

Per Capita Energy, Economic and Climate Indicators

E4 THE FUTURE
ENERGY • ECONOMY • EQUITY • ENVIRONMENT

Indiana
1990-2018



© 2018-21 E4TheFuture Inc. All rights reserved.

Visit E4TheFuture.org

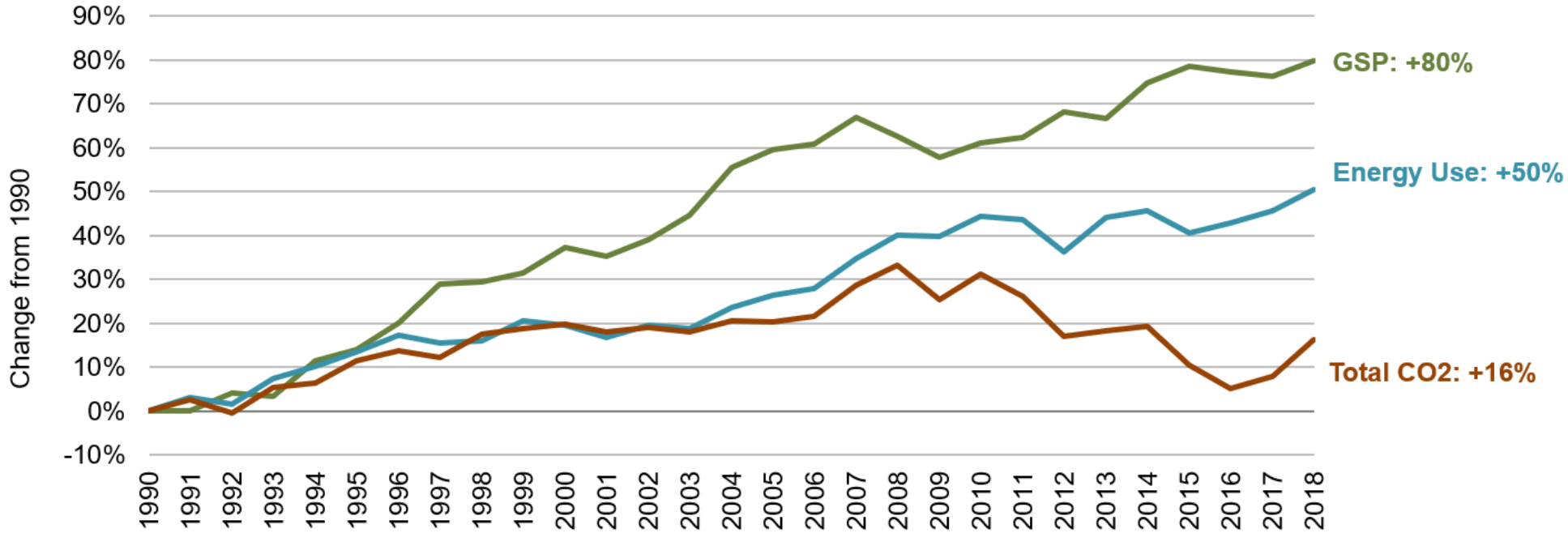
@FacesOfEE

Since 1990, the US economy has produced robust economic output with significantly lower energy use and fewer emissions. Tracking such data trends enables a clarifying analysis of public policy impacts.

Per Capita Energy, Economic and Climate Indicators

E4 THE FUTURE
ENERGY • ECONOMY • EQUITY • ENVIRONMENT

Iowa
1990-2018



© 2018-21 E4TheFuture Inc. All rights reserved.

Visit E4TheFuture.org

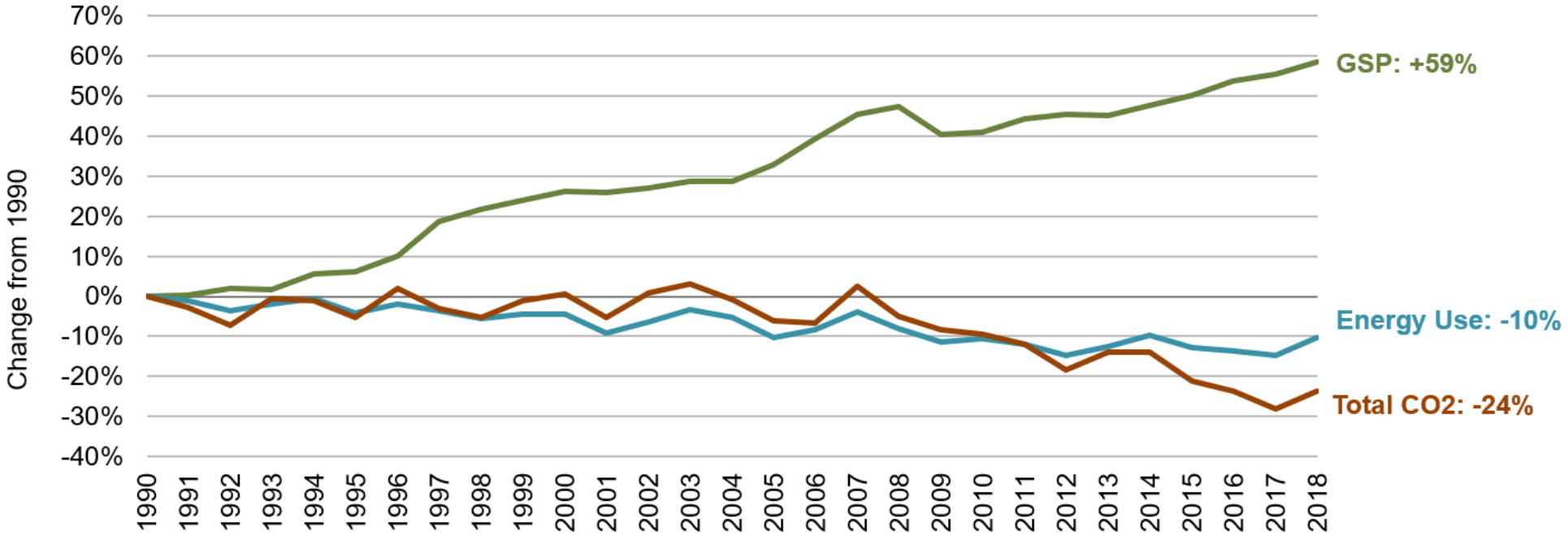
@FacesOfEE

Since 1990, the US economy has produced robust economic output with significantly lower energy use and fewer emissions. Tracking such data trends enables a clarifying analysis of public policy impacts.

Per Capita Energy, Economic and Climate Indicators

E4 THE FUTURE
ENERGY • ECONOMY • EQUITY • ENVIRONMENT

Kansas
1990-2018



© 2018-21 E4TheFuture Inc. All rights reserved.

Visit E4TheFuture.org

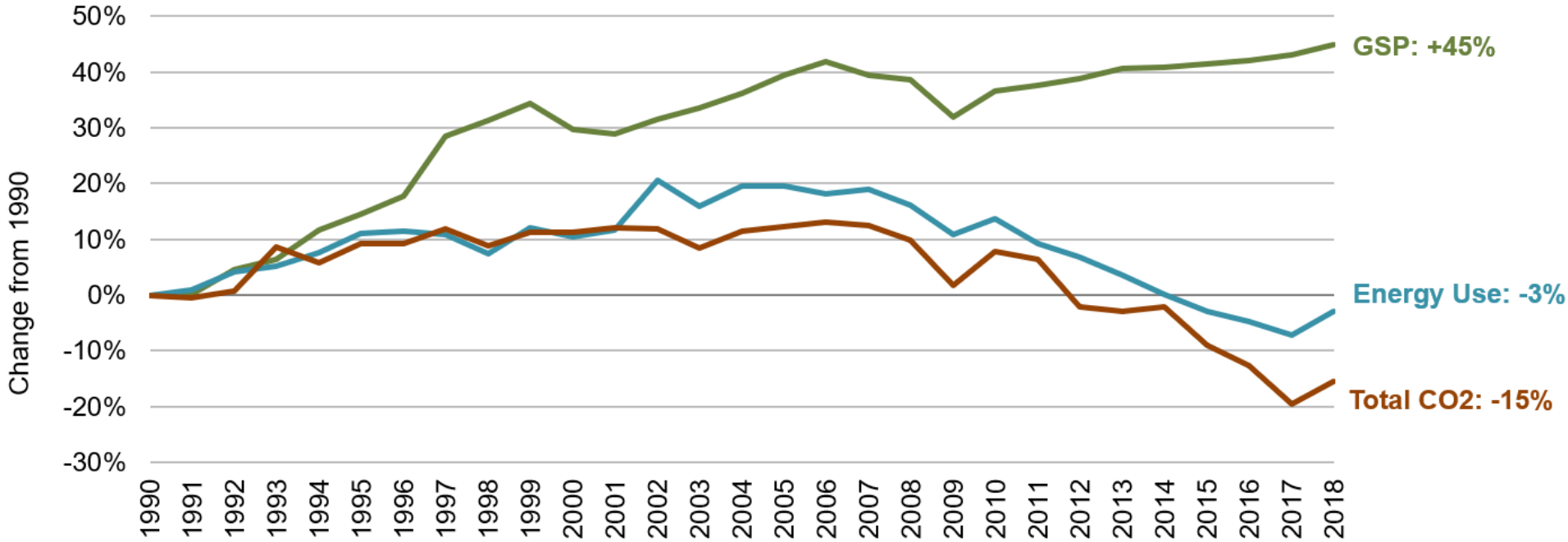
@FacesOfEE

Since 1990, the US economy has produced robust economic output with significantly lower energy use and fewer emissions. Tracking such data trends enables a clarifying analysis of public policy impacts.

Per Capita Energy, Economic and Climate Indicators

E4 THE FUTURE
ENERGY • ECONOMY • EQUITY • ENVIRONMENT

Kentucky
1990-2018



© 2018-21 E4TheFuture Inc. All rights reserved.

Visit E4TheFuture.org

@FacesOfEE

Since 1990, the US economy has produced robust economic output with significantly lower energy use and fewer emissions. Tracking such data trends enables a clarifying analysis of public policy impacts.

Per Capita Energy, Economic and Climate Indicators

E4THE FUTURE
ENERGY • ECONOMY • EQUITY • ENVIRONMENT

Louisiana
1990-2018

© 2018-21 E4TheFuture Inc. All rights reserved.

Visit E4TheFuture.org

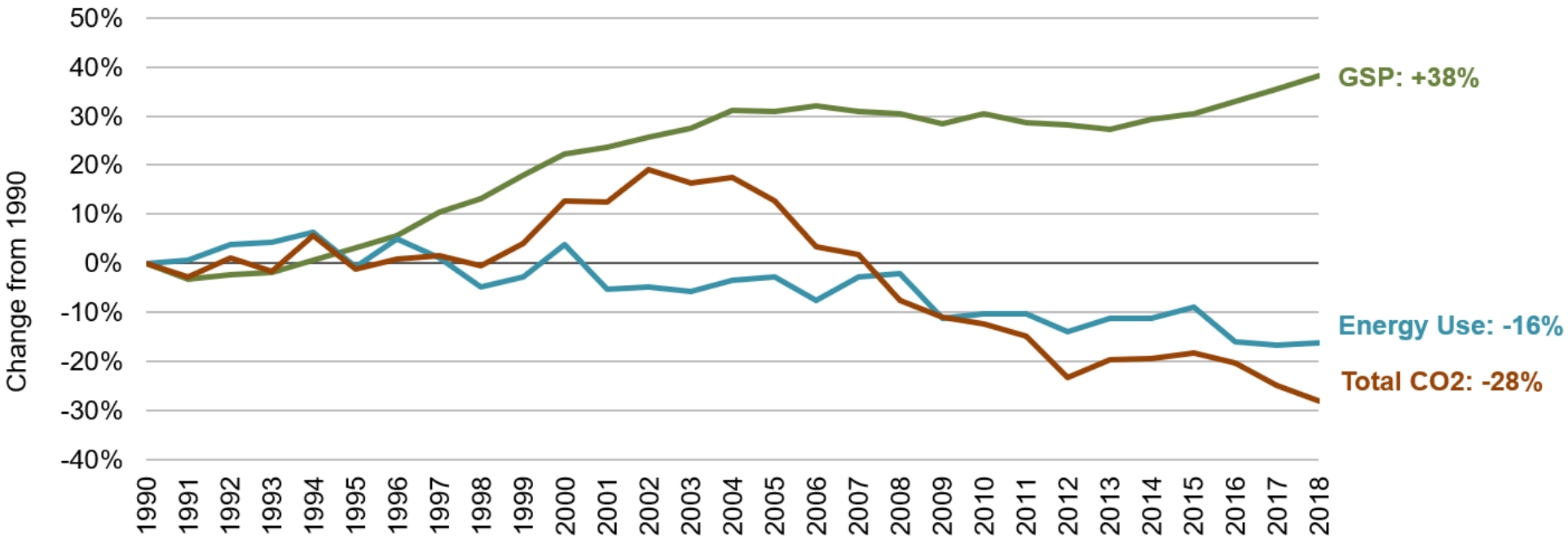
@FacesOfEE

Since 1990, the US economy has produced robust economic output with significantly lower energy use and fewer emissions. Tracking such data trends enables a clarifying analysis of public policy impacts.

Per Capita Energy, Economic and Climate Indicators

E4THE FUTURE
ENERGY • ECONOMY • EQUITY • ENVIRONMENT

Maine
1990-2018



© 2018-21 E4TheFuture Inc. All rights reserved.

Visit E4TheFuture.org

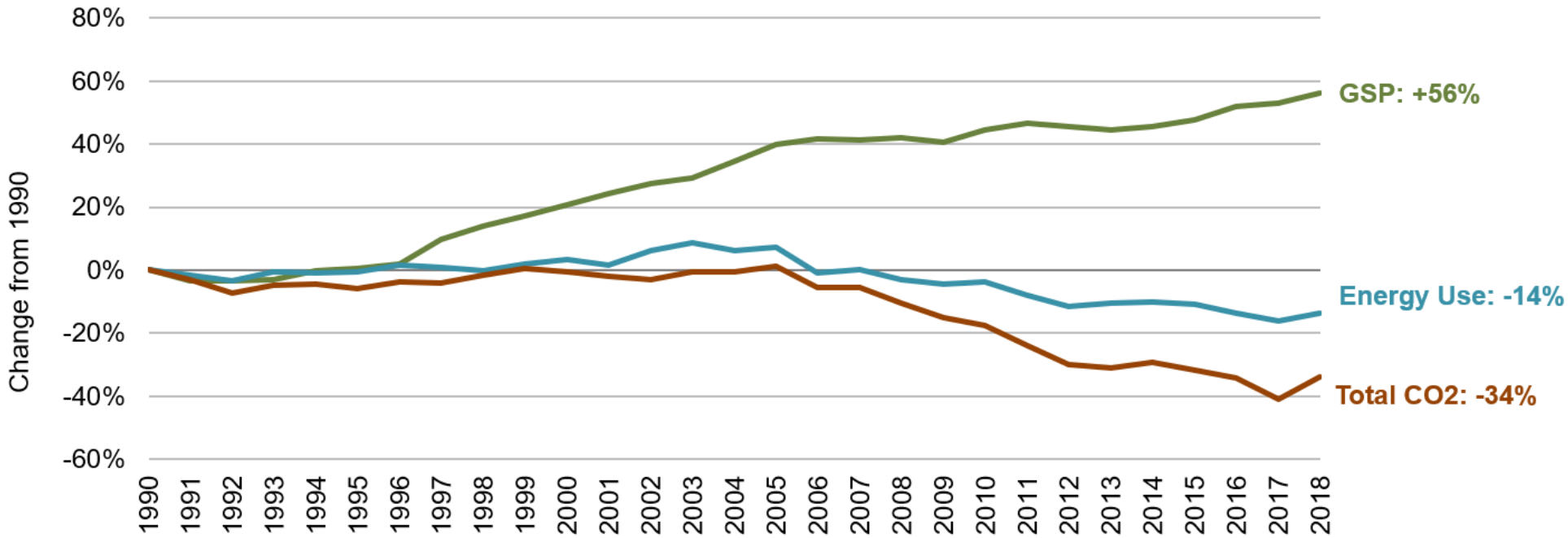
@FacesOfEE

Since 1990, the US economy has produced robust economic output with significantly lower energy use and fewer emissions. Tracking such data trends enables a clarifying analysis of public policy impacts.

Per Capita Energy, Economic and Climate Indicators

E4THE FUTURE
ENERGY • ECONOMY • EQUITY • ENVIRONMENT

Maryland
1990-2018



© 2018-21 E4TheFuture Inc. All rights reserved.

Visit E4TheFuture.org

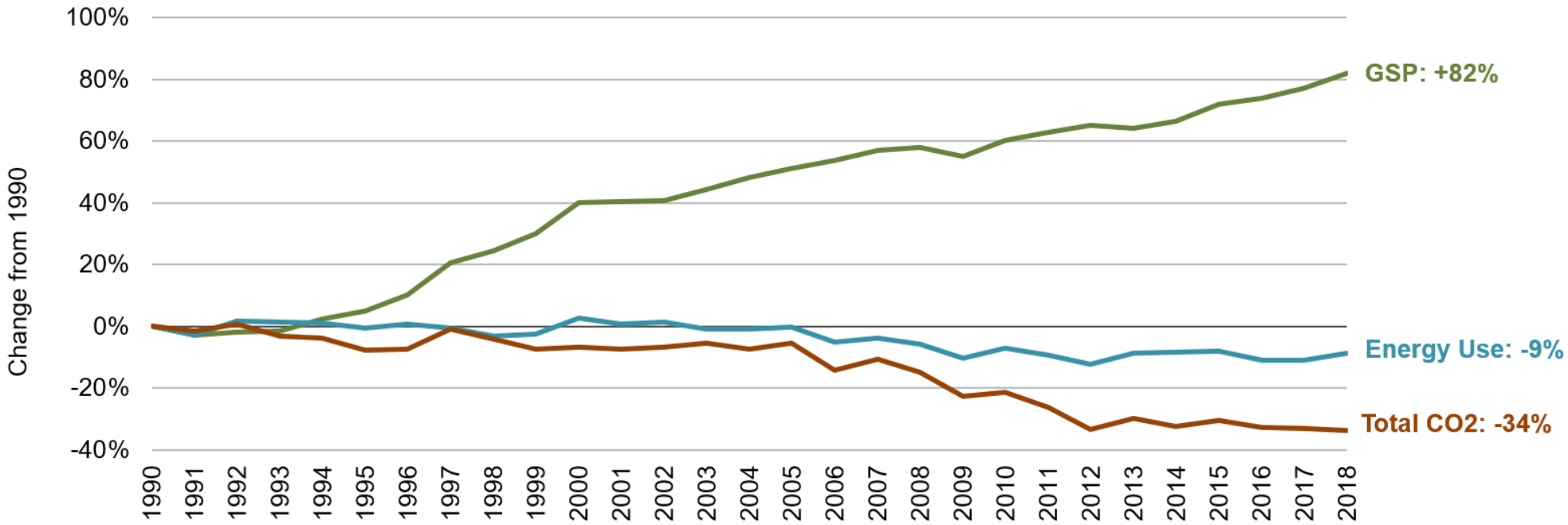
@FacesOfEE

Since 1990, the US economy has produced robust economic output with significantly lower energy use and fewer emissions. Tracking such data trends enables a clarifying analysis of public policy impacts.

Per Capita Energy, Economic and Climate Indicators

E4THE FUTURE
ENERGY • ECONOMY • EQUITY • ENVIRONMENT

Massachusetts
1990-2018



© 2018-21 E4TheFuture Inc. All rights reserved.

Visit E4TheFuture.org

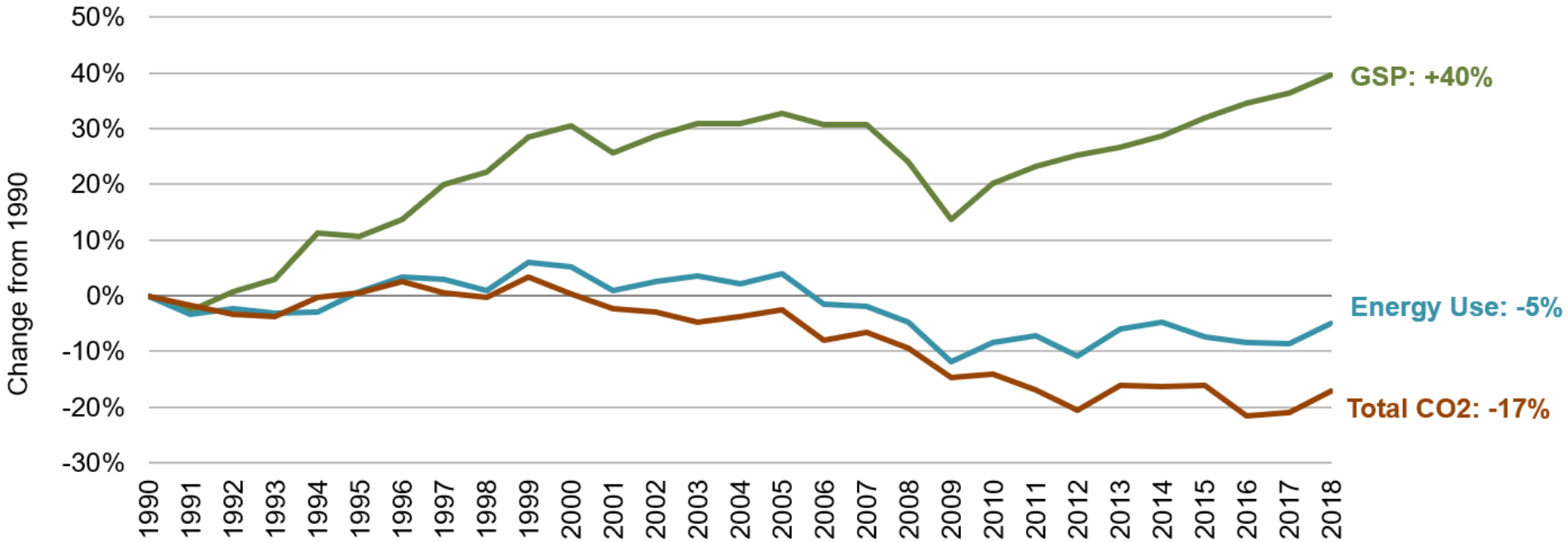
@FacesOfEE

Since 1990, the US economy has produced robust economic output with significantly lower energy use and fewer emissions. Tracking such data trends enables a clarifying analysis of public policy impacts.

Per Capita Energy, Economic and Climate Indicators

E4 THE FUTURE
ENERGY • ECONOMY • EQUITY • ENVIRONMENT

Michigan
1990-2018



© 2018-21 E4TheFuture Inc. All rights reserved.

Visit E4TheFuture.org

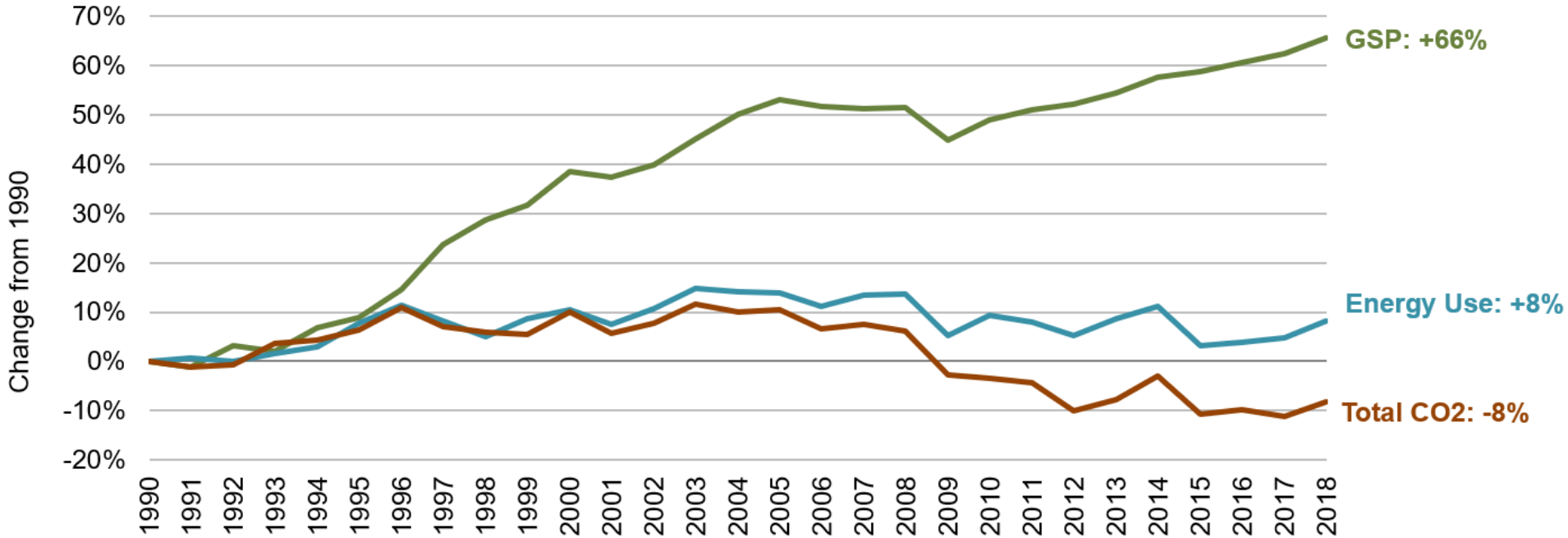
@FacesOfEE

Since 1990, the US economy has produced robust economic output with significantly lower energy use and fewer emissions. Tracking such data trends enables a clarifying analysis of public policy impacts.

Per Capita Energy, Economic and Climate Indicators

E4THE FUTURE
ENERGY • ECONOMY • EQUITY • ENVIRONMENT

Minnesota 1990-2018



© 2018-21 E4TheFuture Inc. All rights reserved.

Visit E4TheFuture.org

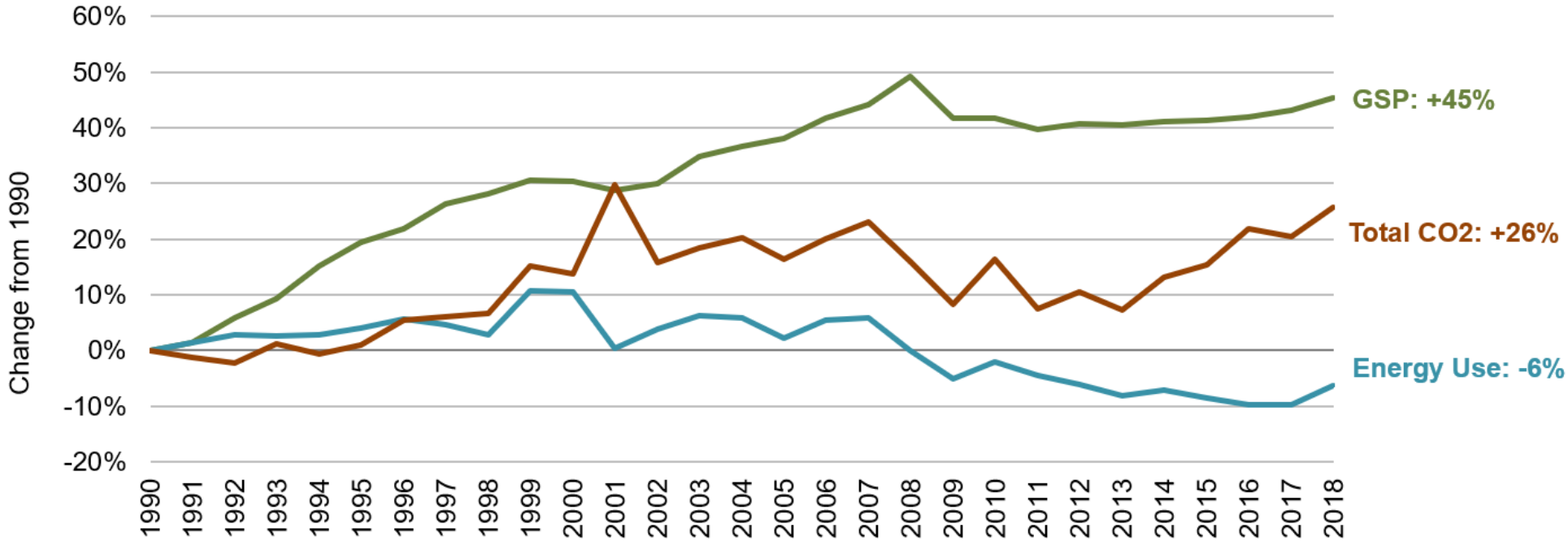
@FacesOfEE

Since 1990, the US economy has produced robust economic output with significantly lower energy use and fewer emissions. Tracking such data trends enables a clarifying analysis of public policy impacts.

Per Capita Energy, Economic and Climate Indicators

E4THE FUTURE
ENERGY • ECONOMY • EQUITY • ENVIRONMENT

Mississippi 1990-2018



© 2018-21 E4TheFuture Inc. All rights reserved.

Visit E4TheFuture.org

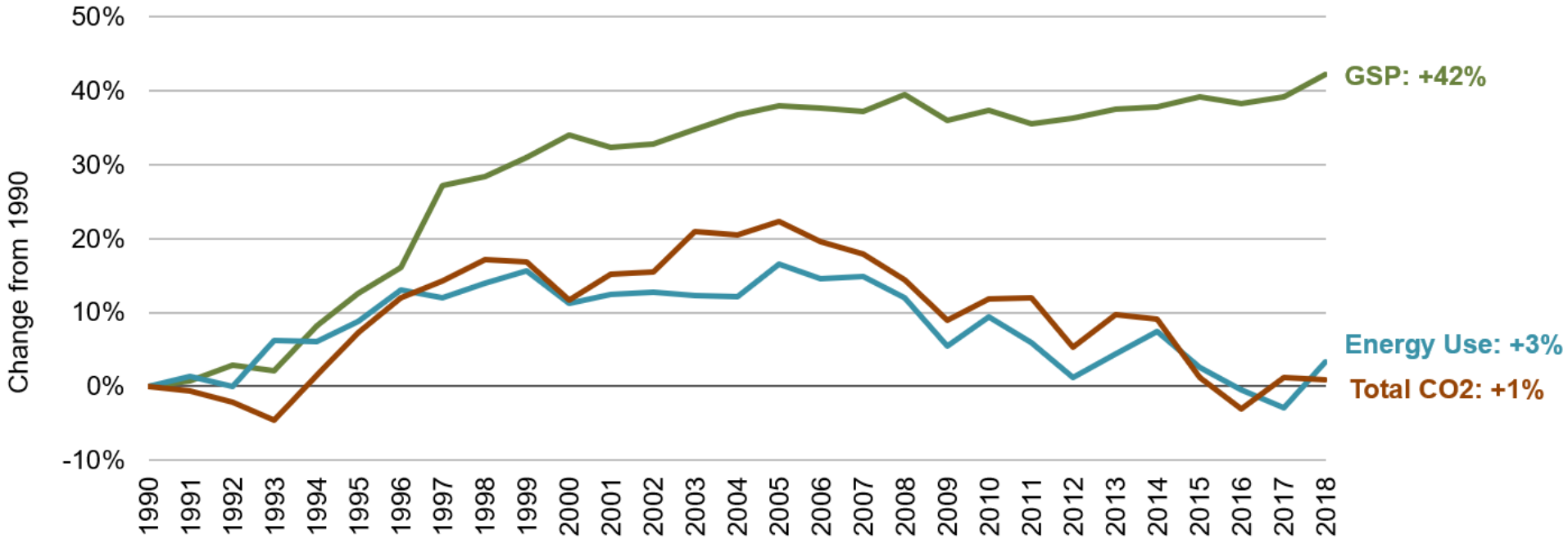
@FacesOfEE

Since 1990, the US economy has produced robust economic output with significantly lower energy use and fewer emissions. Tracking such data trends enables a clarifying analysis of public policy impacts.

Per Capita Energy, Economic and Climate Indicators

E4THE FUTURE
ENERGY • ECONOMY • EQUITY • ENVIRONMENT

Missouri
1990-2018



© 2018-21 E4TheFuture Inc. All rights reserved.

Visit E4TheFuture.org

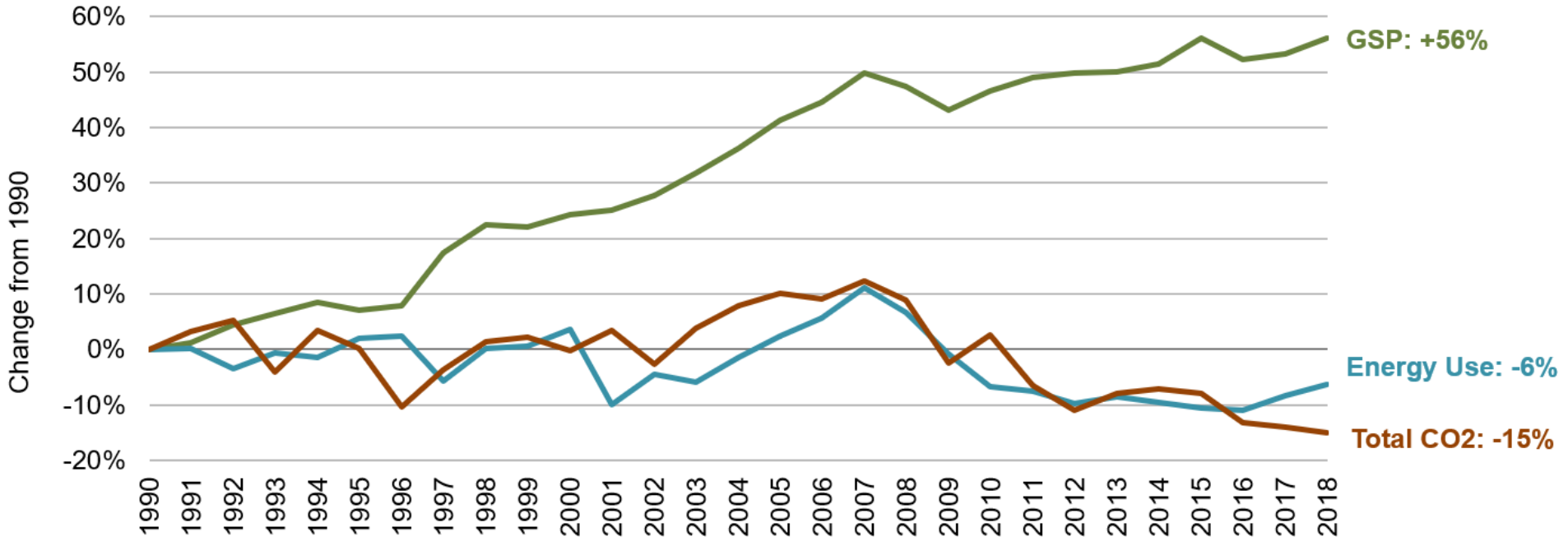
@FacesOfEE

Since 1990, the US economy has produced robust economic output with significantly lower energy use and fewer emissions. Tracking such data trends enables a clarifying analysis of public policy impacts.

Per Capita Energy, Economic and Climate Indicators

E4THE FUTURE
ENERGY • ECONOMY • EQUITY • ENVIRONMENT

Montana
1990-2018



© 2018-21 E4TheFuture Inc. All rights reserved.

Visit E4TheFuture.org

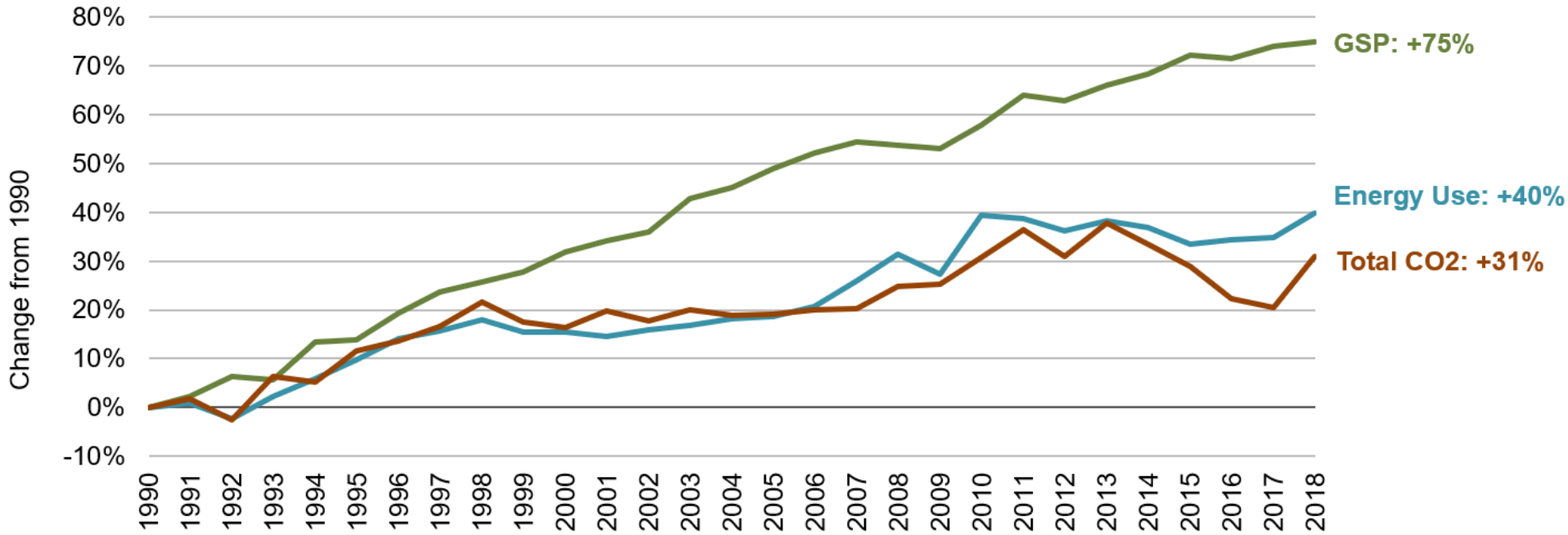
@FacesOfEE

Since 1990, the US economy has produced robust economic output with significantly lower energy use and fewer emissions. Tracking such data trends enables a clarifying analysis of public policy impacts.

Per Capita Energy, Economic and Climate Indicators

E4 THE FUTURE
ENERGY • ECONOMY • EQUITY • ENVIRONMENT

Nebraska 1990-2018



© 2018-21 E4TheFuture Inc. All rights reserved.

Visit E4TheFuture.org

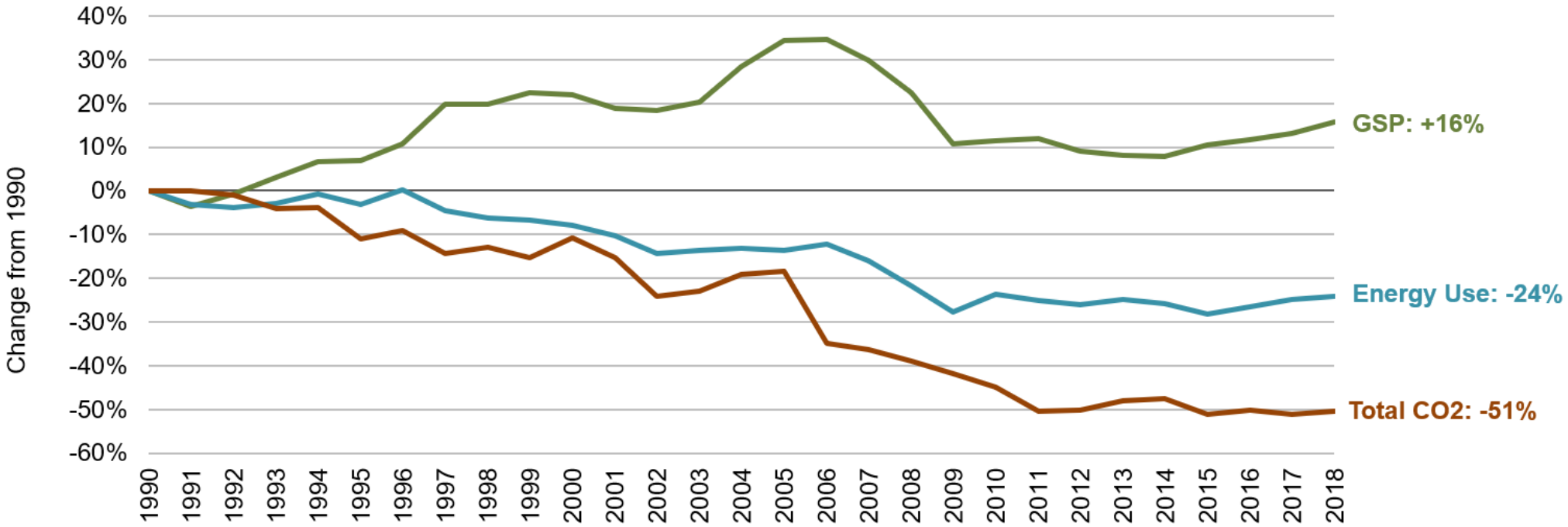
@FacesOfEE

Since 1990, the US economy has produced robust economic output with significantly lower energy use and fewer emissions. Tracking such data trends enables a clarifying analysis of public policy impacts.

Per Capita Energy, Economic and Climate Indicators

E4 THE FUTURE
ENERGY • ECONOMY • EQUITY • ENVIRONMENT

Nevada 1990-2018



© 2018-21 E4TheFuture Inc. All rights reserved.

Visit E4TheFuture.org

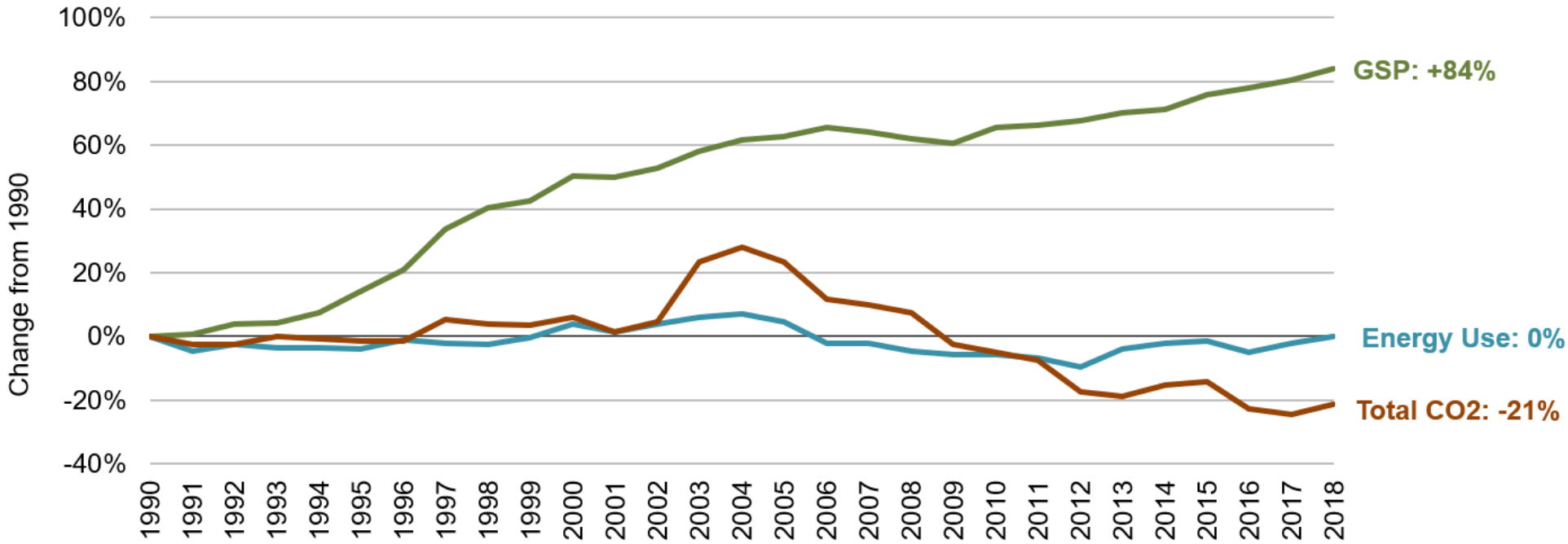
@FacesOfEE

Since 1990, the US economy has produced robust economic output with significantly lower energy use and fewer emissions. Tracking such data trends enables a clarifying analysis of public policy impacts.

Per Capita Energy, Economic and Climate Indicators

E4THE FUTURE
ENERGY • ECONOMY • EQUITY • ENVIRONMENT

New Hampshire 1990-2018



© 2018-21 E4TheFuture Inc. All rights reserved.

Visit E4TheFuture.org

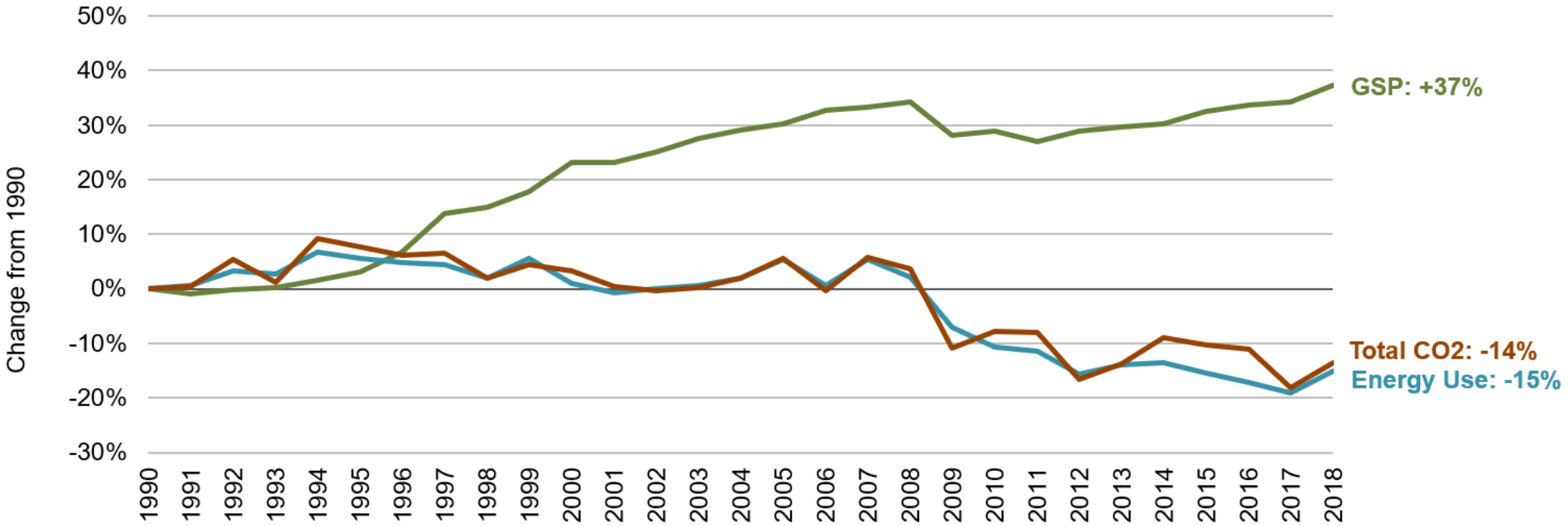
@FacesOfEE

Since 1990, the US economy has produced robust economic output with significantly lower energy use and fewer emissions. Tracking such data trends enables a clarifying analysis of public policy impacts.

Per Capita Energy, Economic and Climate Indicators

E4 THE FUTURE
ENERGY • ECONOMY • EQUITY • ENVIRONMENT

New Jersey 1990-2018



© 2018-21 E4TheFuture Inc. All rights reserved.

Visit E4TheFuture.org

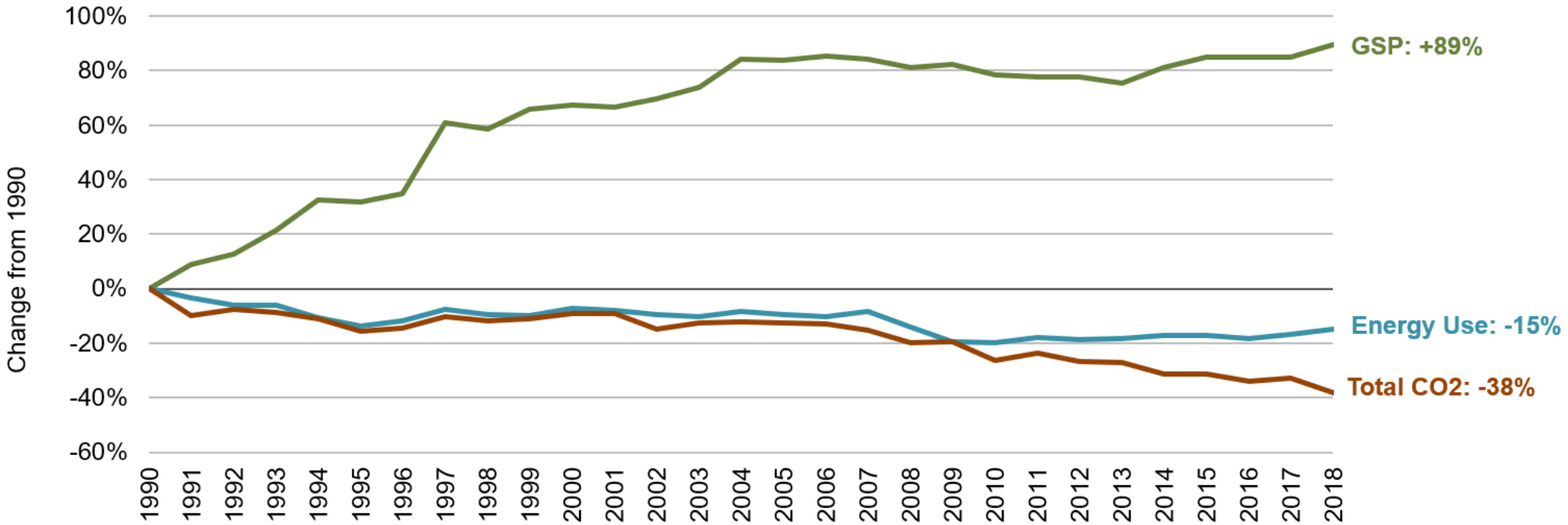
@FacesOfEE

Since 1990, the US economy has produced robust economic output with significantly lower energy use and fewer emissions. Tracking such data trends enables a clarifying analysis of public policy impacts.

Per Capita Energy, Economic and Climate Indicators

E4THE FUTURE
ENERGY • ECONOMY • EQUITY • ENVIRONMENT

New Mexico 1990-2018



© 2018-21 E4TheFuture Inc. All rights reserved.

Visit E4TheFuture.org

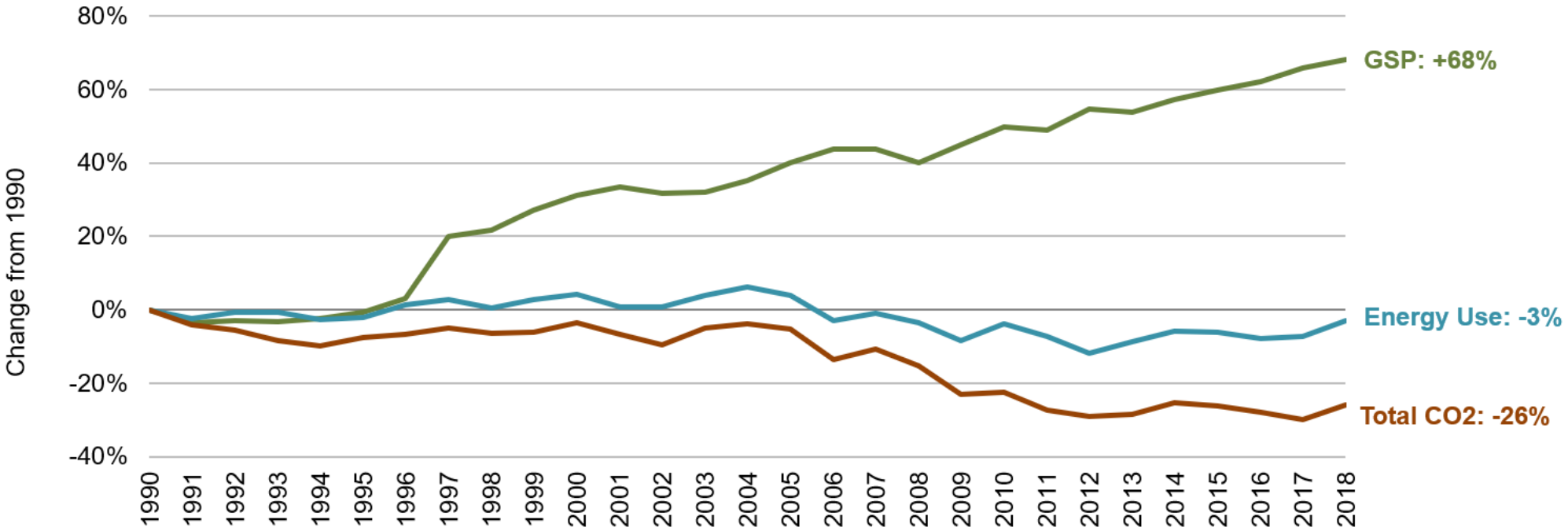
@FacesOfEE

Since 1990, the US economy has produced robust economic output with significantly lower energy use and fewer emissions. Tracking such data trends enables a clarifying analysis of public policy impacts.

Per Capita Energy, Economic and Climate Indicators

E4THE FUTURE
ENERGY • ECONOMY • EQUITY • ENVIRONMENT

New York 1990-2018



© 2018-21 E4TheFuture Inc. All rights reserved.

Visit E4TheFuture.org

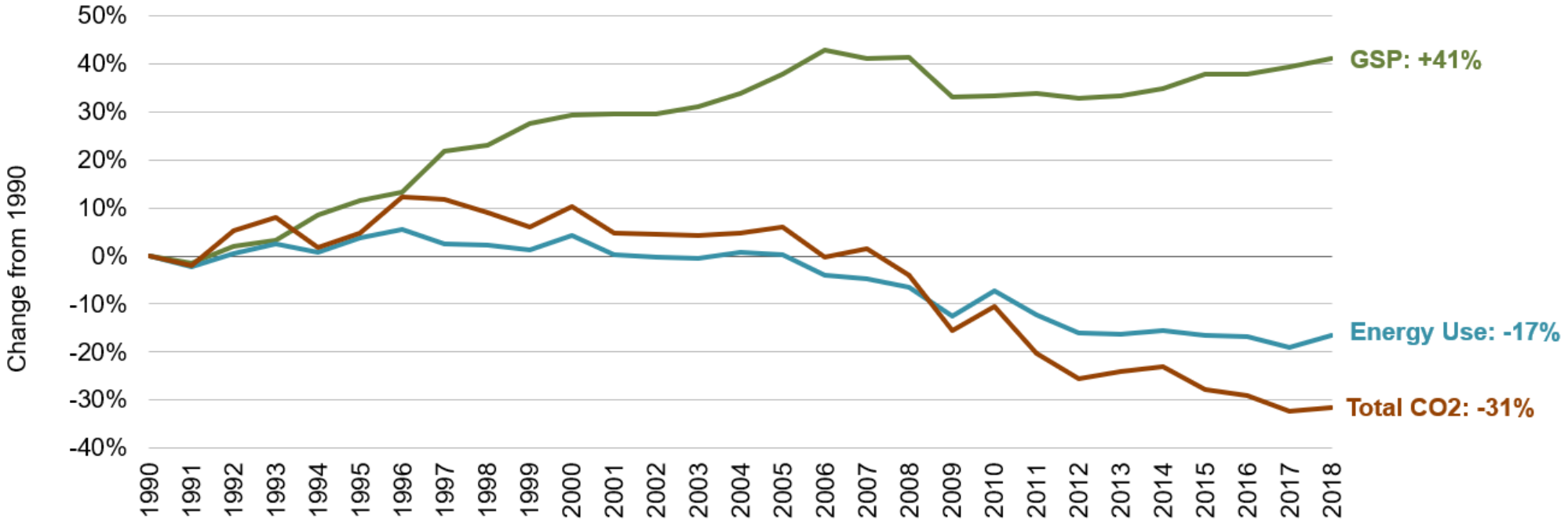
@FacesOfEE

Since 1990, the US economy has produced robust economic output with significantly lower energy use and fewer emissions. Tracking such data trends enables a clarifying analysis of public policy impacts.

Per Capita Energy, Economic and Climate Indicators

E4THE FUTURE
ENERGY • ECONOMY • EQUITY • ENVIRONMENT

North Carolina
1990-2018



© 2018-21 E4TheFuture Inc. All rights reserved.

Visit E4TheFuture.org

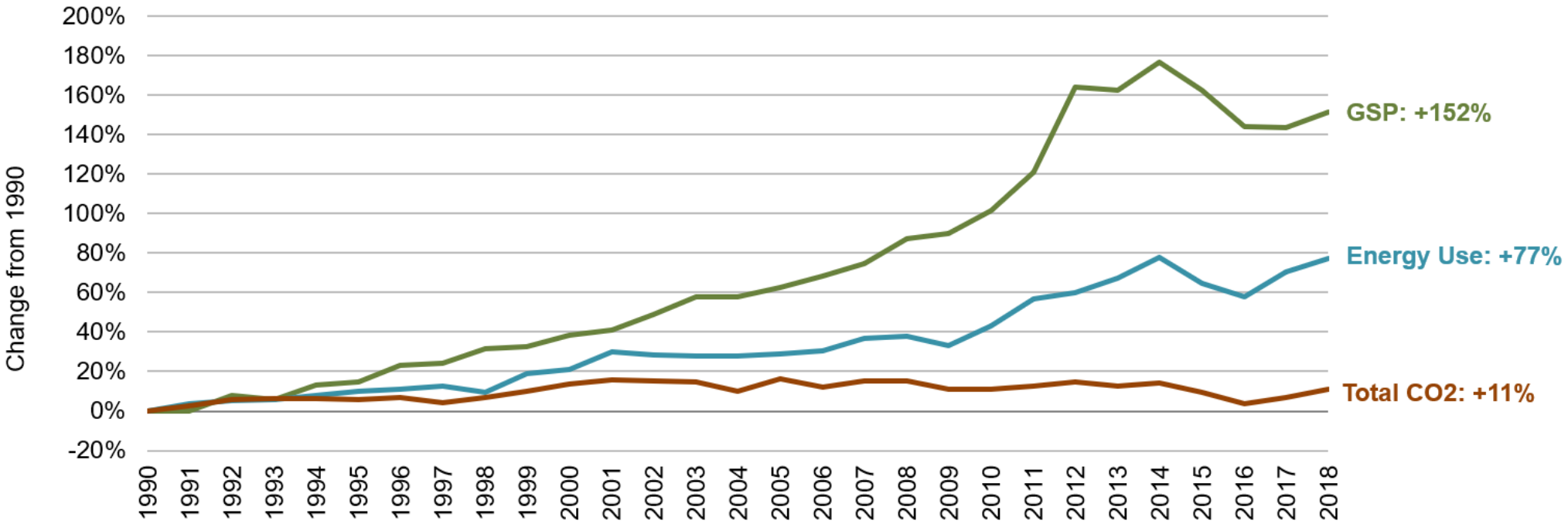
@FacesOfEE

Since 1990, the US economy has produced robust economic output with significantly lower energy use and fewer emissions. Tracking such data trends enables a clarifying analysis of public policy impacts.

Per Capita Energy, Economic and Climate Indicators

E4THE FUTURE
ENERGY • ECONOMY • EQUITY • ENVIRONMENT

North Dakota 1990-2018



© 2018-21 E4TheFuture Inc. All rights reserved.

Visit E4TheFuture.org

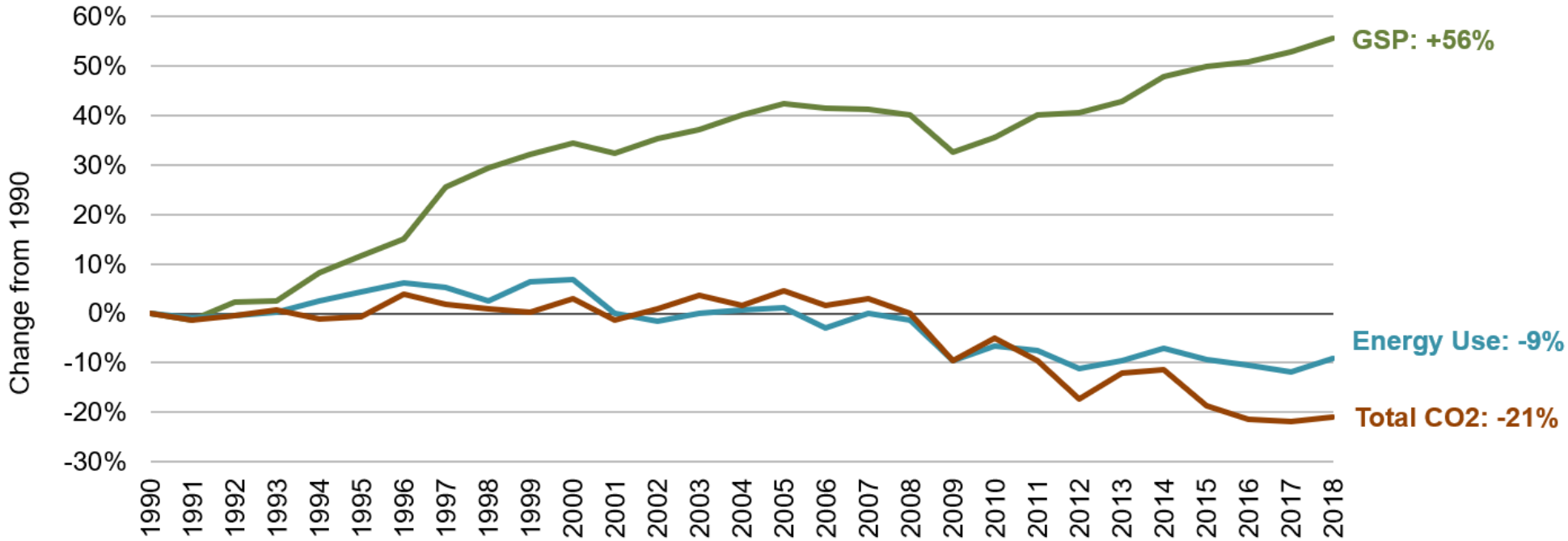
@FacesOfEE

Since 1990, the US economy has produced robust economic output with significantly lower energy use and fewer emissions. Tracking such data trends enables a clarifying analysis of public policy impacts.

Per Capita Energy, Economic and Climate Indicators

E4 THE FUTURE
ENERGY • ECONOMY • EQUITY • ENVIRONMENT

Ohio
1990-2018



© 2018-21 E4TheFuture Inc. All rights reserved.

Visit E4TheFuture.org

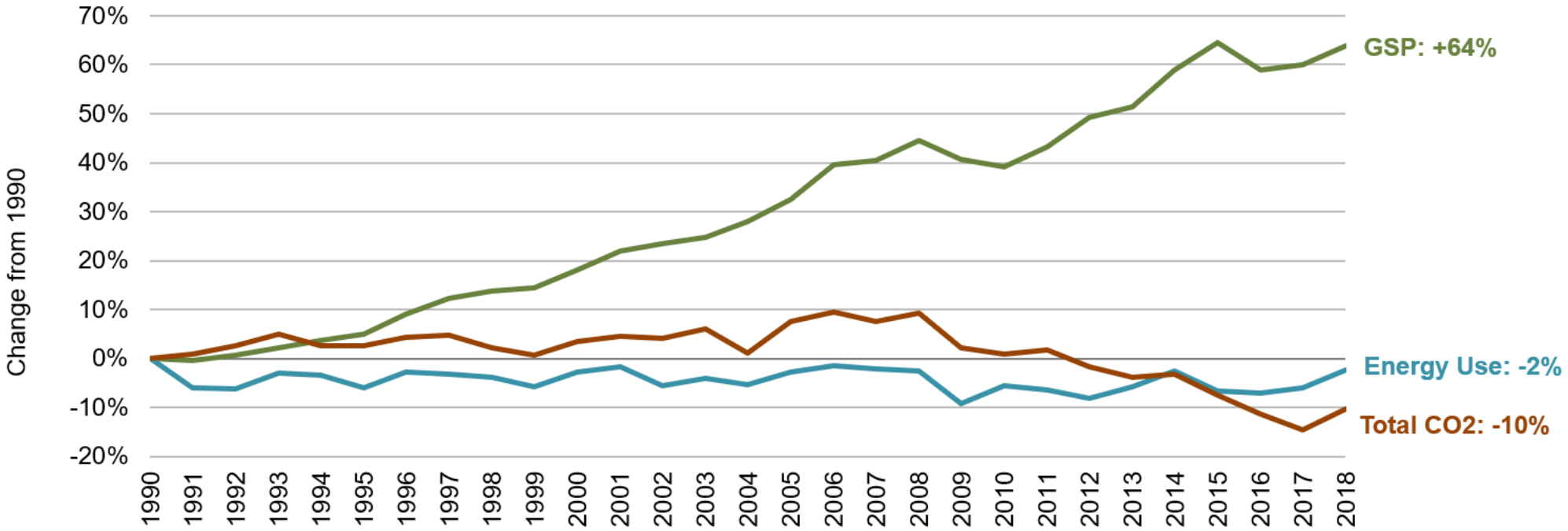
@FacesOfEE

Since 1990, the US economy has produced robust economic output with significantly lower energy use and fewer emissions. Tracking such data trends enables a clarifying analysis of public policy impacts.

Per Capita Energy, Economic and Climate Indicators

E4THE FUTURE
ENERGY • ECONOMY • EQUITY • ENVIRONMENT

Oklahoma 1990-2018



© 2018-21 E4TheFuture Inc. All rights reserved.

Visit E4TheFuture.org

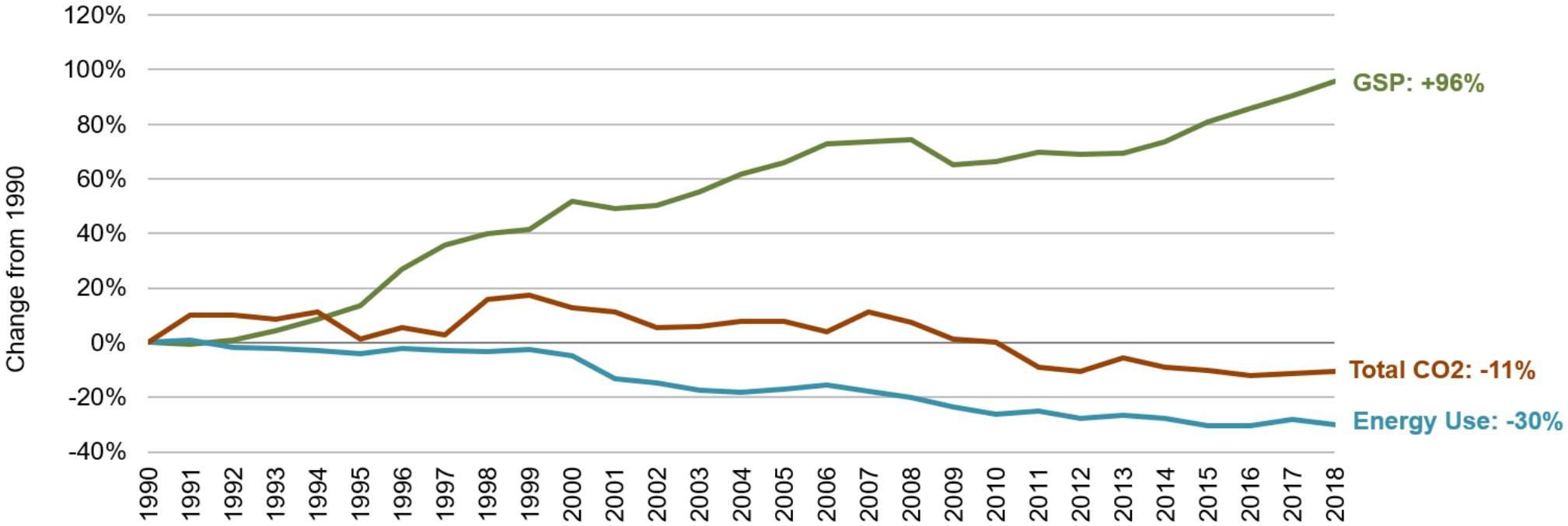
@FacesOfEE

Since 1990, the US economy has produced robust economic output with significantly lower energy use and fewer emissions. Tracking such data trends enables a clarifying analysis of public policy impacts.

Per Capita Energy, Economic and Climate Indicators

E4THE FUTURE
ENERGY • ECONOMY • EQUITY • ENVIRONMENT

Oregon 1990-2018



© 2018-21 E4TheFuture Inc. All rights reserved.

Visit E4TheFuture.org

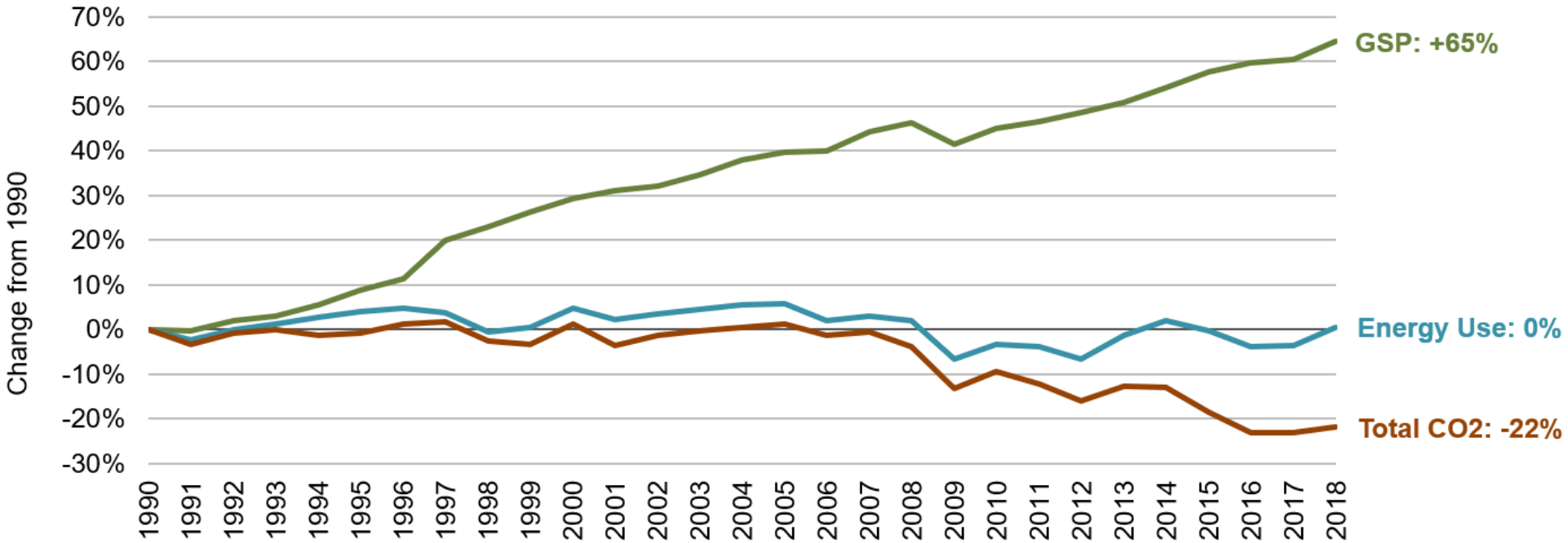
@FacesOfEE

Since 1990, the US economy has produced robust economic output with significantly lower energy use and fewer emissions. Tracking such data trends enables a clarifying analysis of public policy impacts.

Per Capita Energy, Economic and Climate Indicators

E4THE FUTURE
ENERGY • ECONOMY • EQUITY • ENVIRONMENT

Pennsylvania
1990-2018



© 2018-21 E4TheFuture Inc. All rights reserved.

Visit E4TheFuture.org

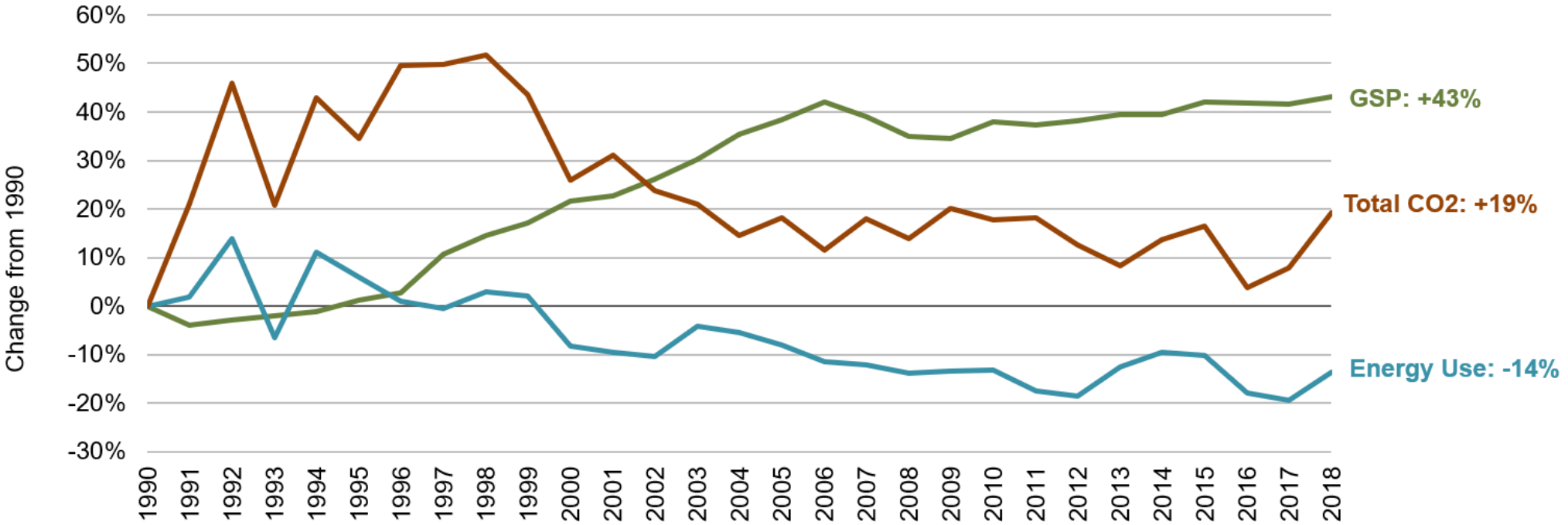
@FacesOfEE

Since 1990, the US economy has produced robust economic output with significantly lower energy use and fewer emissions. Tracking such data trends enables a clarifying analysis of public policy impacts.

Per Capita Energy, Economic and Climate Indicators

E4THE FUTURE
ENERGY • ECONOMY • EQUITY • ENVIRONMENT

Rhode Island 1990-2018



© 2018-21 E4TheFuture Inc. All rights reserved.

Visit E4TheFuture.org

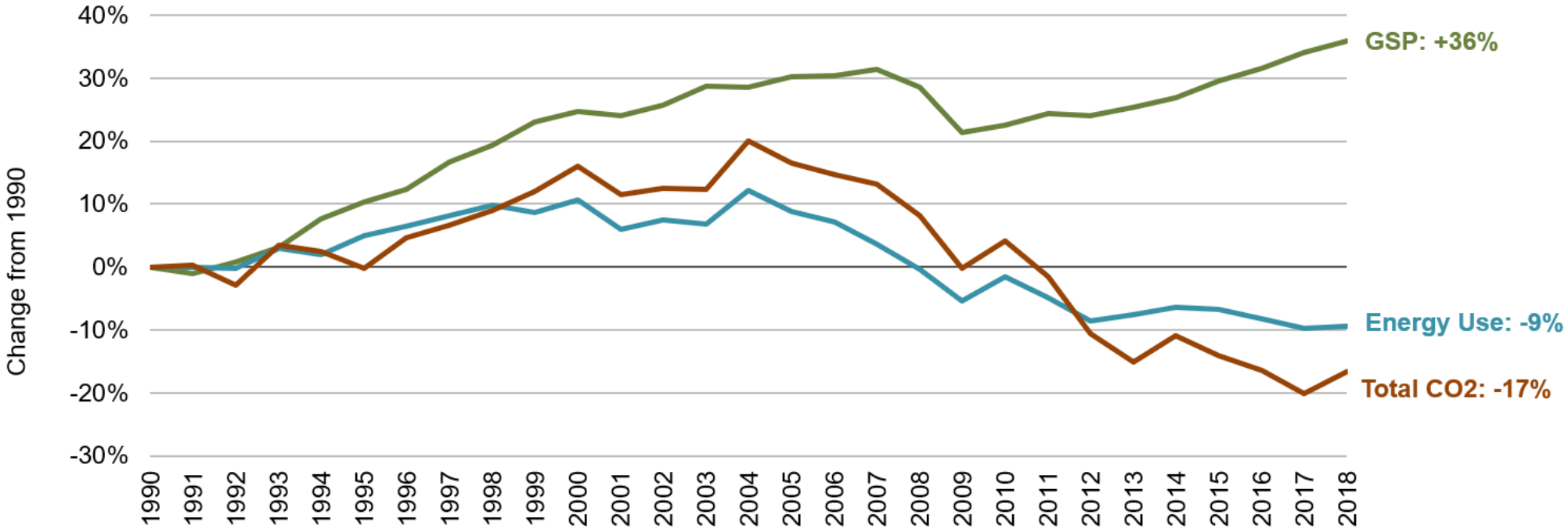
@FacesOfEE

Since 1990, the US economy has produced robust economic output with significantly lower energy use and fewer emissions. Tracking such data trends enables a clarifying analysis of public policy impacts.

Per Capita Energy, Economic and Climate Indicators

E4THE FUTURE
ENERGY • ECONOMY • EQUITY • ENVIRONMENT

South Carolina 1990-2018



© 2018-21 E4TheFuture Inc. All rights reserved.

Visit E4TheFuture.org

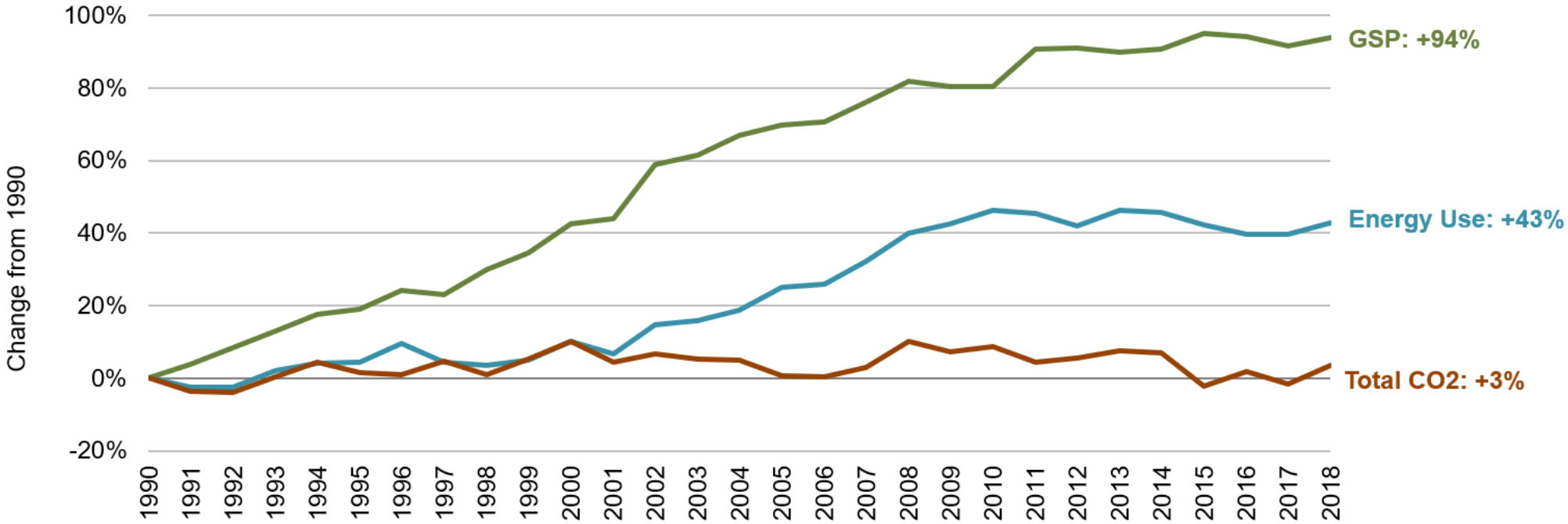
@FacesOfEE

Since 1990, the US economy has produced robust economic output with significantly lower energy use and fewer emissions. Tracking such data trends enables a clarifying analysis of public policy impacts.

Per Capita Energy, Economic and Climate Indicators

E4THE FUTURE
ENERGY • ECONOMY • EQUITY • ENVIRONMENT

South Dakota 1990-2018



© 2018-21 E4TheFuture Inc. All rights reserved.

Visit E4TheFuture.org

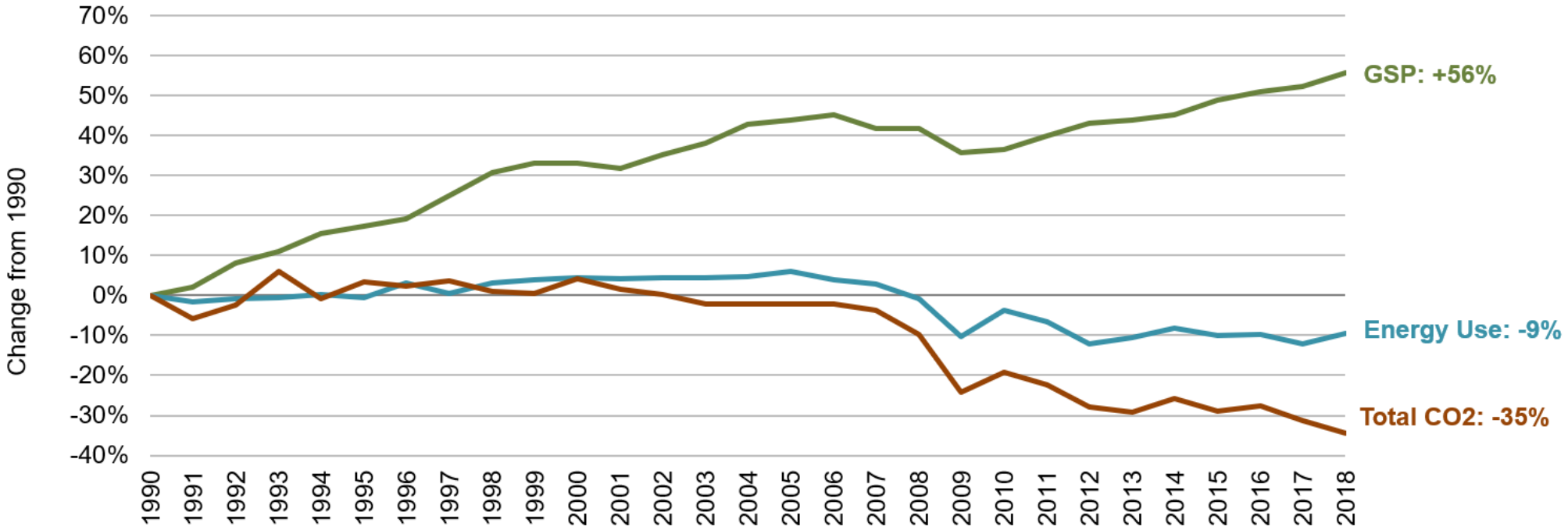
@FacesOfEE

Since 1990, the US economy has produced robust economic output with significantly lower energy use and fewer emissions. Tracking such data trends enables a clarifying analysis of public policy impacts.

Per Capita Energy, Economic and Climate Indicators

E4 THE FUTURE
ENERGY • ECONOMY • EQUITY • ENVIRONMENT

Tennessee 1990-2018



© 2018-21 E4TheFuture Inc. All rights reserved.

Visit E4TheFuture.org

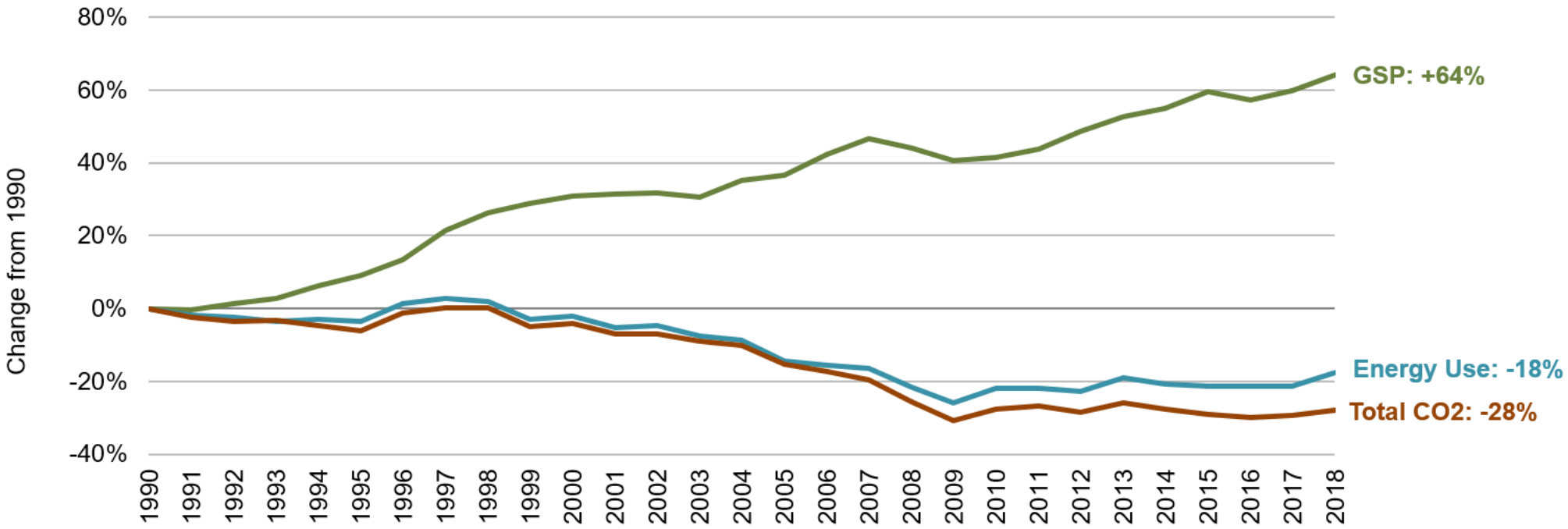
@FacesOfEE

Since 1990, the US economy has produced robust economic output with significantly lower energy use and fewer emissions. Tracking such data trends enables a clarifying analysis of public policy impacts.

Per Capita Energy, Economic and Climate Indicators

E4THE FUTURE
ENERGY • ECONOMY • EQUITY • ENVIRONMENT

Texas
1990-2018



© 2018-21 E4TheFuture Inc. All rights reserved.

Visit E4TheFuture.org

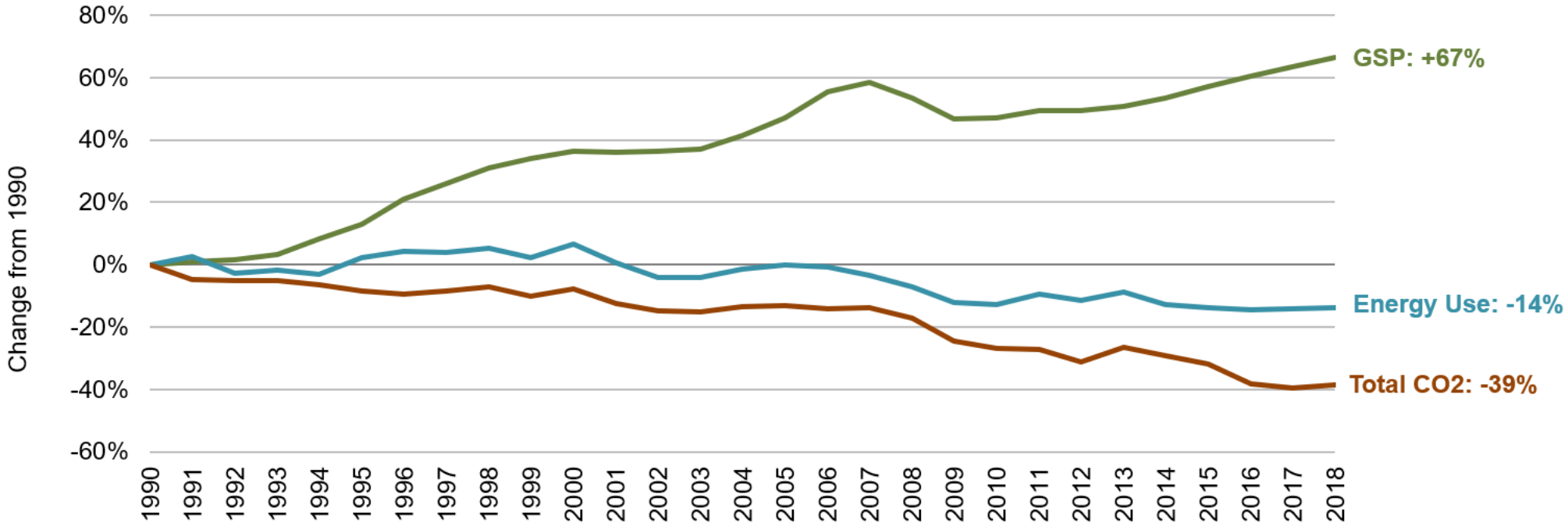
@FacesOfEE

Since 1990, the US economy has produced robust economic output with significantly lower energy use and fewer emissions. Tracking such data trends enables a clarifying analysis of public policy impacts.

Per Capita Energy, Economic and Climate Indicators

E4 THE FUTURE
ENERGY • ECONOMY • EQUITY • ENVIRONMENT

Utah
1990-2018



© 2018-21 E4TheFuture Inc. All rights reserved.

Visit E4TheFuture.org

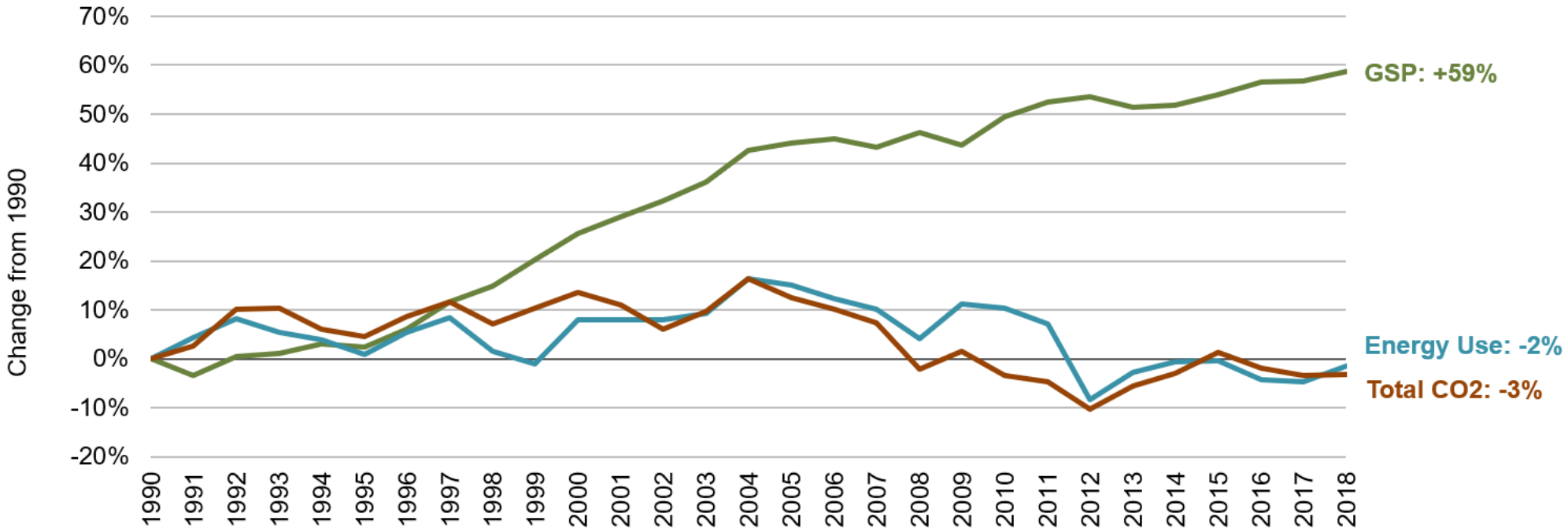
@FacesOfEE

Since 1990, the US economy has produced robust economic output with significantly lower energy use and fewer emissions. Tracking such data trends enables a clarifying analysis of public policy impacts.

Per Capita Energy, Economic and Climate Indicators

E4 THE FUTURE
ENERGY • ECONOMY • EQUITY • ENVIRONMENT

Vermont
1990-2018



© 2018-21 E4TheFuture Inc. All rights reserved.

Visit E4TheFuture.org

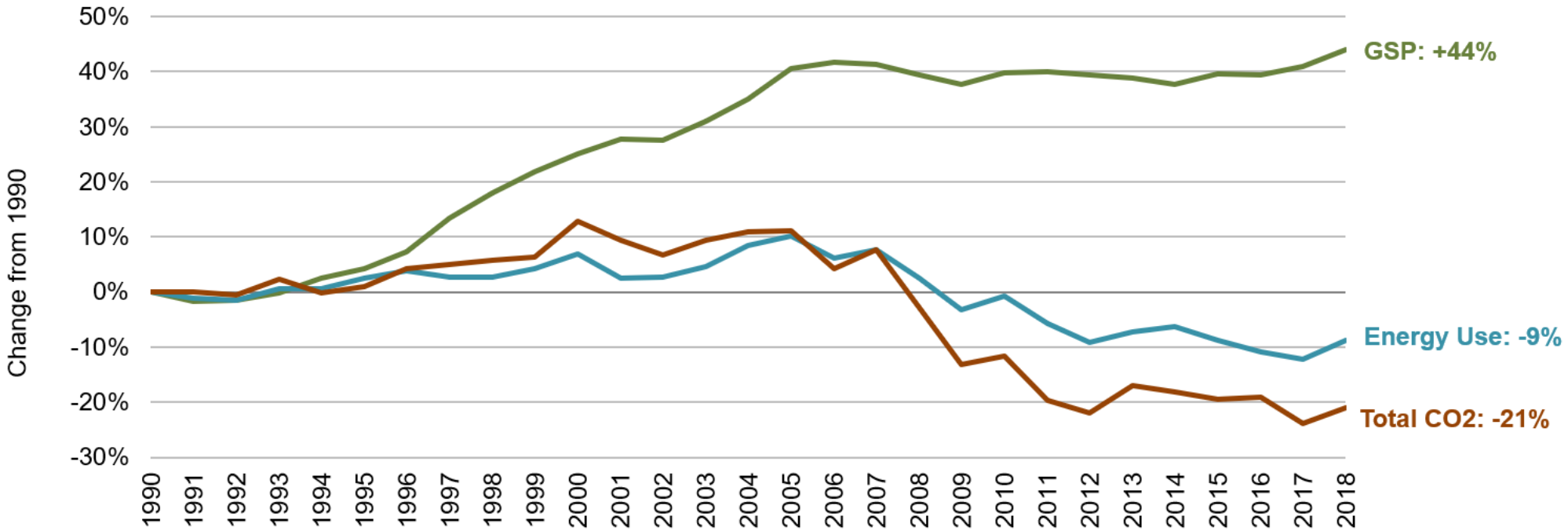
@FacesOfEE

Since 1990, the US economy has produced robust economic output with significantly lower energy use and fewer emissions. Tracking such data trends enables a clarifying analysis of public policy impacts.

Per Capita Energy, Economic and Climate Indicators

E4 THE FUTURE
ENERGY • ECONOMY • EQUITY • ENVIRONMENT

Virginia
1990-2018



© 2018-21 E4TheFuture Inc. All rights reserved.

Visit E4TheFuture.org

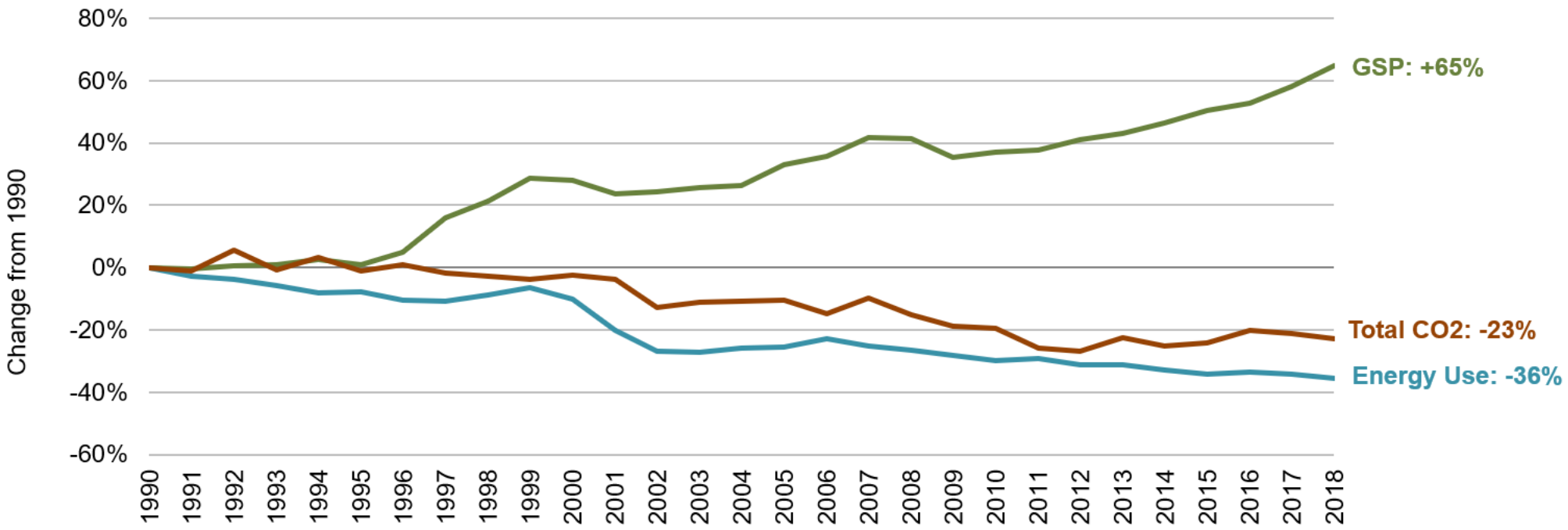
@FacesOfEE

Since 1990, the US economy has produced robust economic output with significantly lower energy use and fewer emissions. Tracking such data trends enables a clarifying analysis of public policy impacts.

Per Capita Energy, Economic and Climate Indicators

E4THE FUTURE
ENERGY • ECONOMY • EQUITY • ENVIRONMENT

Washington 1990-2018



© 2018-21 E4TheFuture Inc. All rights reserved.

Visit E4TheFuture.org

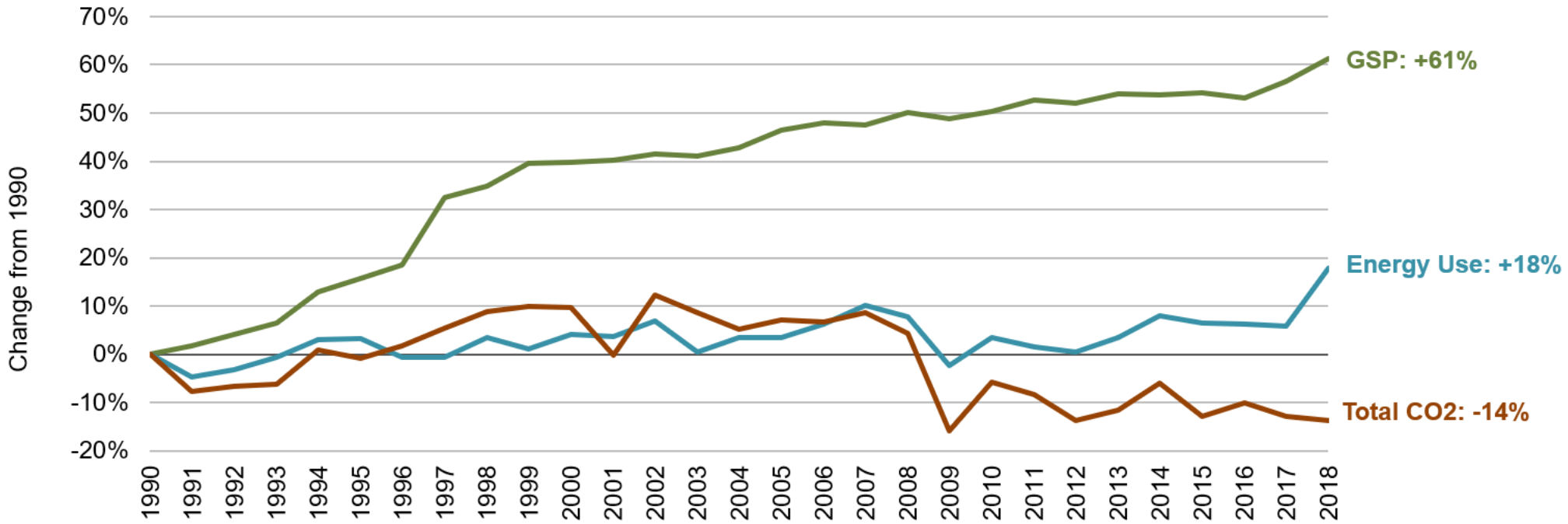
@FacesOfEE

Since 1990, the US economy has produced robust economic output with significantly lower energy use and fewer emissions. Tracking such data trends enables a clarifying analysis of public policy impacts.

Per Capita Energy, Economic and Climate Indicators

E4THE FUTURE
ENERGY • ECONOMY • EQUITY • ENVIRONMENT

West Virginia 1990-2018



© 2018-21 E4TheFuture Inc. All rights reserved.

Visit E4TheFuture.org

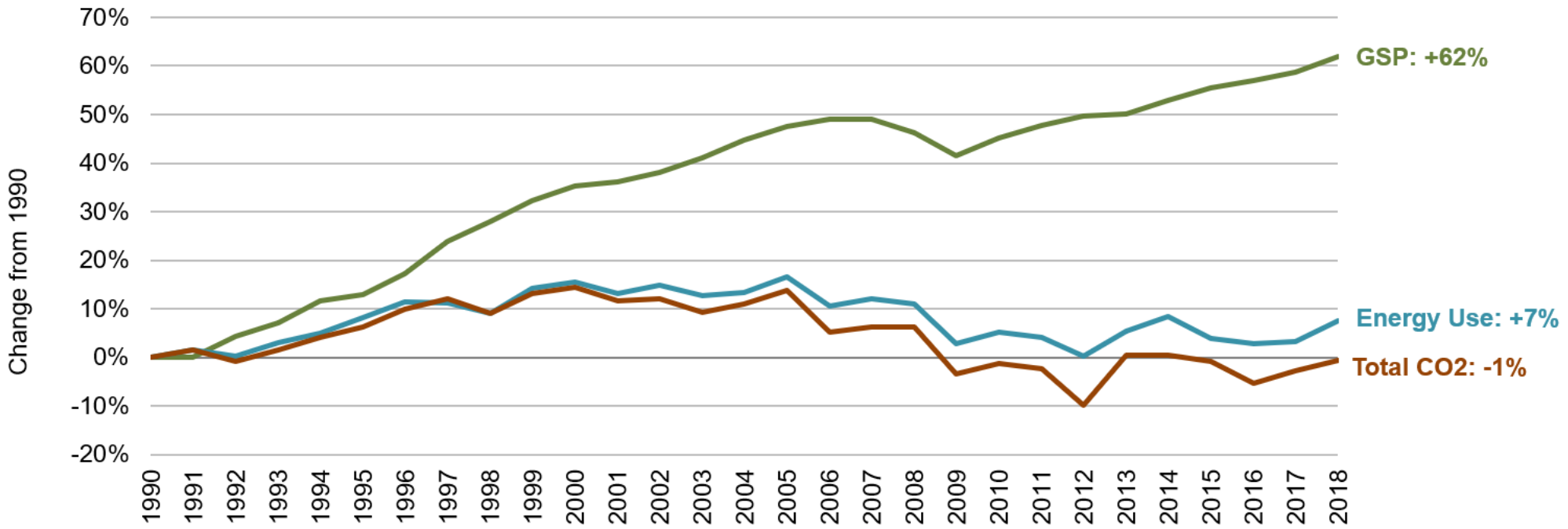
@FacesOfEE

Since 1990, the US economy has produced robust economic output with significantly lower energy use and fewer emissions. Tracking such data trends enables a clarifying analysis of public policy impacts.

Per Capita Energy, Economic and Climate Indicators

E4 THE FUTURE
ENERGY • ECONOMY • EQUITY • ENVIRONMENT

Wisconsin
1990-2018



© 2018-21 E4TheFuture Inc. All rights reserved.

Visit E4TheFuture.org

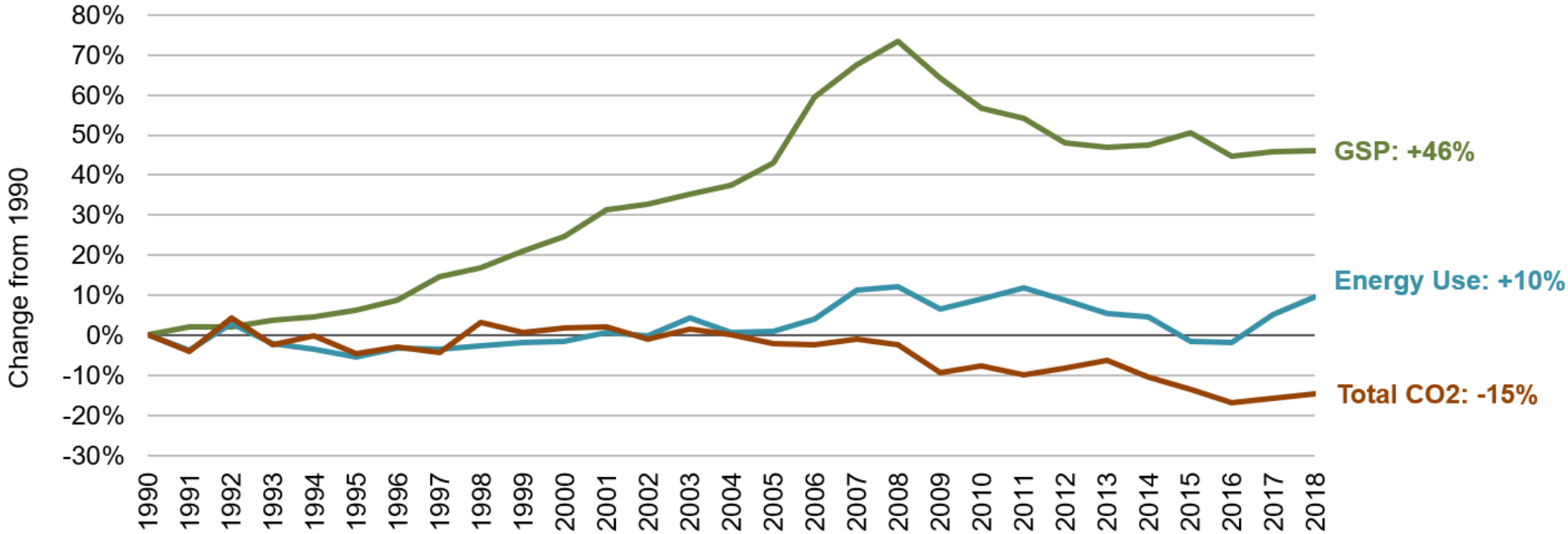
@FacesOfEE

Since 1990, the US economy has produced robust economic output with significantly lower energy use and fewer emissions. Tracking such data trends enables a clarifying analysis of public policy impacts.

Per Capita Energy, Economic and Climate Indicators

E4 THE FUTURE
ENERGY • ECONOMY • EQUITY • ENVIRONMENT

Wyoming 1990-2018



© 2018-21 E4TheFuture Inc. All rights reserved.

Visit E4TheFuture.org

@FacesOfEE