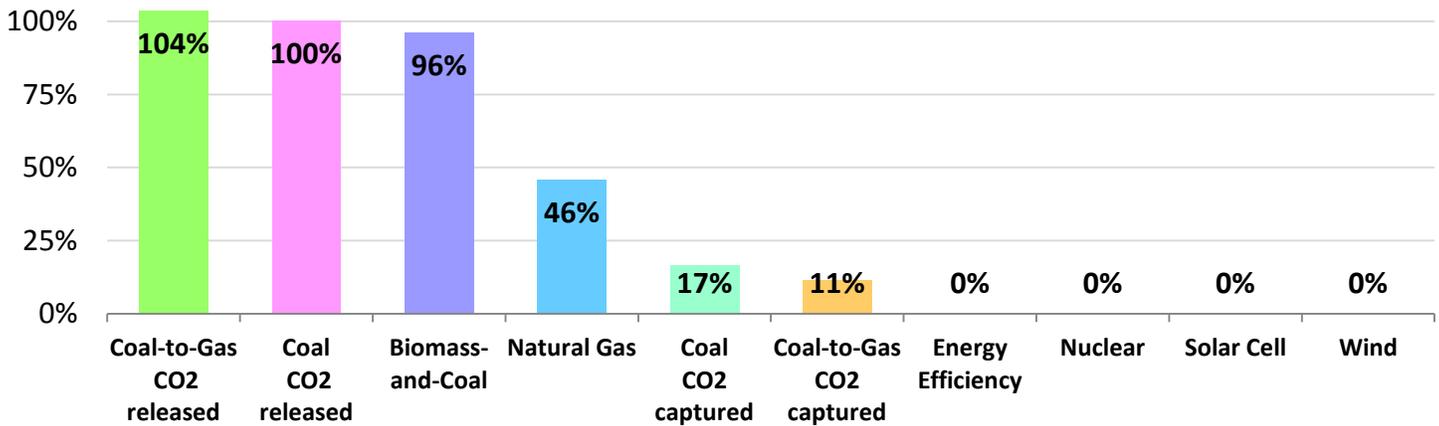


Power Plant Comparison: Reach the Goals

Goal 1: PA must build plants that collectively release less CO₂

Releasing CO₂ into the air contributes to climate change. The less CO₂ released by a power plant, the less it contributes to climate change. This graph compares the CO₂ released by each power plant type. The size of each bar shows the percent of CO₂ released by a power plant type compared with that from a coal plant (in which the CO₂ is released to the air). The CO₂ from the coal plant (CO₂ released) is always shown as 100%. If a power plant type pollutes less than this coal plant, the graph will show a percentage that is less than 100%. If it pollutes more, a percentage greater than 100% is shown. So, the smaller the percentage, the less CO₂ put out by that plant. A graph shows 0% if a power plant type puts out no CO₂. Overall, shorter bars on the graph are better than longer ones.

Carbon Dioxide Released (compared to Coal - CO₂ released)



Goal 2: Build enough power plants to make 60 TWh of additional electricity each year

This graph compares the amount of electricity made by each power plant type in one year. No plant can run all the time – they need maintenance. Wind and solar plants can only run when it is windy or sunny. The graph below shows the average amount of electricity each type of power plant in PA makes in a year. For instance, an average natural gas plant makes 5 times as much electricity as an average wind farm. So, you would need to build 5 wind farms to make the same amount of electricity as 1 natural gas plant. Think about how many of each of these plants would need to be built to make 60 TWh of electricity.

Electricity Produced by the Average Plant

