REGIONAL CARBON CAPTURE DEPLOYMENT INITIATIVE

JOBS AND ECONOMIC IMPACT OF CARBON CAPTURE DEPLOYMENT

Maryland

TOTAL JOBS POTENTIAL

Project Jobs	Operations Jobs
550	**350**

Maryland has the opportunity to create an annual average of up to **550 project jobs** over a 15-year period and **350 ongoing operations jobs** through the deployment of carbon capture at four industrial and power facilities. Developing carbon dioxide (CO_2) capture, transport and storage infrastructure at these facilities could generate up to **$2 billion in private investment** and capture **five million metric tons** of CO_2 every year.

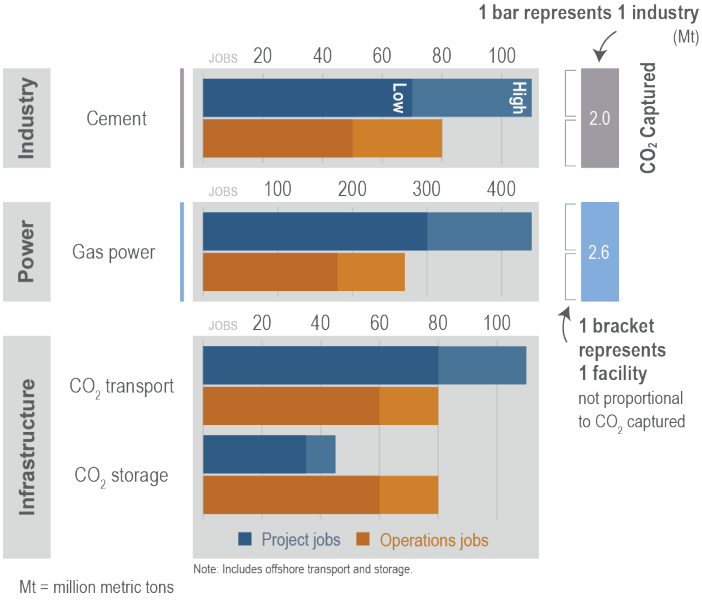
CREATING JOBS & CAPTURING CARBON

Carbon capture is essential to meeting mid-century emissions reduction goals while retaining and growing a domestic base of high-wage energy, industrial, and manufacturing jobs. Carbon capture retrofits require facilities to be outfitted with technologies to remove the CO_2 and ensure it is transport ready. The type of technology used is dependent on the type of plant and varies across industry and facilities. There are jobs associated with the equipment, materials (e.g. cement and steel), engineering, and labor required to install the capture technology, as well as ongoing jobs to operate and maintain the retrofits. These are referred to as **project jobs** and **operations jobs**.

METHODOLOGY

Rhodium Group performed an economic analysis based on the Regional Carbon Capture Deployment Initiative's Near- and Medium-Term capture potential scenario. The Rhodium analysis quantifies the economic impact and employment opportunities of carbon capture retrofit projects by deploying state-specific data in the IMPLAN economic model. The analytical results measure the impact of project investment and operation costs through expected annual jobs. Average annual project jobs were calculated assuming deployment of all projects over a 15-year period. The jobs reported are in-state jobs, directly associated with carbon capture retrofits. They do not include other jobs at the facilities, nor indirect and induced jobs.

ANNUAL PROJECT AND OPERATIONS JOBS



This figure depicts the low and high range of estimated annual average project jobs, transport infrastructure jobs, and ongoing operations jobs that could be created through carbon capture retrofits at industrial and power facilities in Maryland. The potential amount of CO_2 captured and the number of potential near- or medium-term capture facilities in each industry are shown above.

For more information on this effort and to view a series of state fact sheets showcasing carbon capture opportunities and economic potential for job creation, go to www.carboncaptureready.org or contact Kelley Reierson at kreierson@gpisd.net.

RESULTS

Cement facilities hold valuable potential for emissions reductions and job creation in Maryland with carbon capture retrofit, with the potential to create an annual average of up to 110 project jobs and 80 ongoing operations jobs while capturing two million metric tons of CO_2 per year. Maryland's gas power facilities could also create an annual average of up to 440 project jobs and 270 ongoing operations jobs while capturing 2.6 million metric tons of CO_2 per year. The development of transport infrastructure would create an annual average of up to 110 project jobs and 80 ongoing operations jobs. The development of storage infrastructure would create an annual average of up to 45 project jobs and 80 ongoing operations jobs.

June 2024