



CRC-ACS engaged with the international Oil & Gas (O&G) industry by developing novel repair technologies using composites. The development of a lightweight, corrosion-resistant customisable pipeline clamp for the O&G industry offers the potential of significant economic and environmental benefits through rapid, inexpensive installation and long-life performance.

The clamp is a highlight of the collaboration achieved through Australian and international universities and SMEs, and PETRONAS – Malaysia’s national O&G company.

This novel composite clamp was awarded the prestigious JEC 2014 Innovation Award in the O&G category. With massive weight savings (one-sixth the weight of the equivalent steel clamp), the technology can save significant costs through minimising requirements for divers and support infrastructure. It combines fast customisation capability and is not subject to corrosion. PETRONAS licensed the technology for the deployment of the clamp locally and internationally.

CRC-ACS helped its partners make substantial contributions to the Australian economy. While the details of these remain confidential, one partnership alone is understood to have contributed more than \$1 billion to Australia’s GDP. By the close of funding, CRC-ACS and its collaborators had received four international awards for composites as well as four CRC Association awards.

Source: CRC-ACS Exit Report, CRC Association

Manufacturing CRCs made up 18 per cent of the CRCs for which economic benefits were identified and made up 15 per cent of economic benefits. It is important to note that many of the most substantial economic benefits are imminent impacts, expected to mature in the years from 2021. For example, Innovative Manufacturing CRC reported significant collaborative impacts occurring in 2024-25 – an expected \$310 million in costs avoided and \$282 million in increased revenue.