Creating sustainable sources of energy requires innovation. Origin invests in research and exploration into new energy sources that will enable us to continue providing our customers with affordable, efficient and cleaner energy. We acknowledge the critical role energy affordability and reliability plays in human and economic development.

**NATURAL GAS**

Our extensive experience in developing conventional and unconventional natural gas resources means we are continuing to apply our knowledge to new opportunities domestically and internationally.

As stated by the IPCC, “natural gas is the fossil fuel that produces the lowest amount of greenhouse gas per unit of energy consumed”. Natural gas is therefore expected to play a critical role in satisfying the world’s future energy demands.

Unconventional gas production will continue to grow with most production occurring in Australia, China and the United States. North America’s shale gas boom and its expanding LNG trade have resulted in rapid growth in global near-and long-term gas supplies. Australian CSG projects such as Australia Pacific LNG are also contributing to the growth in global supply. Australia Pacific LNG has a nameplate capacity of nine million tonnes of LNG each year for export to supply the growing demand in Asia under long-term supply contracts, and has the largest 2P CSG reserves position in Australia with 14,091 PJJe. (1)

As part of Origin’s strategy to be a regionally significant player in natural gas and LNG, we entered into several transactions during the year to strengthen our portfolio of potential medium-to long-term gas resource developments in Australia. These include two prospective unconventional gas opportunities in recent farm-ins in the Cooper and Beetaloo basins, and the acquisition of 40 per cent interests in the two exploration permits in the prospective Browse Basin.

(1) 100 per cent Australia Pacific LNG. Refer to information on reserves and resources disclosures on page 52 of the Sustainability Report.

Image below: The sustained level of peak construction activity of recent months continues to deliver significant milestones for Australia Pacific LNG.
RENEWABLE ENERGY OPPORTUNITIES

As the energy industry continues to balance affordability and reliability with environmental sustainability, we believe solar, wind, hydro, geothermal and other renewable energy sources will play an important role in the global energy mix.

Origin has a significant renewable position through ownership of a wind farm at Cullerin Range, various wind power purchase agreements, and geothermal and hydro generation stations owned by Contact Energy in New Zealand, including the recently commissioned Te Mihi Geothermal Power Station.

Origin also has a number of wind development opportunities, most notably Stockyard Hill in Victoria, and geothermal and hydro development opportunities in Chile and Indonesia.

Given the integrated nature of Origin’s business, we have unique insights not only into upstream energy sources but also to our customers’ needs. We are well placed, and have a long history of offering and encouraging the uptake of a range of energy solutions for our customers. Origin, for example, is Australia’s largest provider of GreenPower and Green Gas products, one of the largest installers of residential rooftop solar panels, and a leading innovator introducing more efficient smart-meter based energy management technology and charging solutions for electric vehicles.

Origin will continue to build its renewable energy portfolio, and seek new opportunities such as solar technologies, where market structures provide attractive and sustainable value for renewable resources. We will also investigate options for electric vehicles, energy storage solutions and other customer specific innovations, building on our history of innovating and delivering products and services to market.

Image above: Plugging into the future of motoring. The next generation of plug-in vehicles is now in Australia and Origin is at the forefront.