

New Report Shows Pathways for Adelaide to Become the World's First Carbon Neutral City

- **Cost effective technologies that looks at long-term environmental and economic benefits – first city in Australia to do so**
- **Adelaide's evaluation conducted with Siemens' proprietary City Performance Tool that analysed over 700 data inputs from transport, energy and building sectors and over 70 technologies currently in use in the city**
- **Adelaide joins San Francisco, Vienna, London and other cities worldwide testing and using the tool to tackle future challenges**

Today, Siemens released a new study, outlining key technologies that could support Adelaide in becoming the world's first carbon neutral city and in the process potentially generate thousands of full time jobsⁱ. Cutting emissions by about 56% over the next decade has the equivalent gross employment opportunities of 23,000 full time jobs in installation, operation and maintenance jobs in low carbon energy, public transport mobility and building systemsⁱⁱ.

Siemens' proprietary model, City Performance Tool was used to evaluate over 700 data inputs from the population, transportation networks, commercial and residential buildings, energy networks and over 70 technologies currently being used in Adelaide. The report was released at a Committee for Economic Development (CEDA) event on **Sustainable Energy – Mapping the Journey to a Low Carbon Future** event at Tonsley, and was officially handed over by visiting global Siemens Member of Managing Board, Dr. Roland Busch. The Siemens City Performance Tool provides city managers and planners a unique view of their city and helps identify areas of greatest need and effectiveness for better resource allocation.

Speaking at the launch of the report, Premier Jay Weatherill said that Adelaide's transition to a zero net emissions economy will give it a competitive advantage.

“South Australia has an opportunity to place itself at the forefront as a global leader in transitioning to a low carbon economy. Sustainability and economic prosperity can be achieved through well-planned and measurable action based solidly on data and figures. For Adelaide, this translates into a framework to promote alternative mobility, cost-effective renewable energy and better optimisation of existing infrastructure,” said Premier Weatherill. “We have a unique opportunity to do something that’s good for the environment, good for the economy and good for the city.”

“We’ve set an ambitious target to be the world’s first carbon neutral city and this report and the right partners will help us get there. Being the world’s first carbon neutral city is not only an environmental imperative but an economic opportunity of the future. I’m pleased to be part of this exciting initiative,” said Lord Mayor Haese.

The City Performance Tool provides an integrated simulation IT platform to accurately forecast the impact of urban infrastructure technologies. Dr. Busch said that smarter use of data helps inform cities as they make sustained and targeted investments to improve city infrastructure.

“Siemens has a long and proud history in South Australia. We helped transform South Australia with the telegraph line 144 years ago. We’ve continued a great technology partnership and now we’re proud to help Adelaide transition to the world’s first carbon neutral city. Adelaide joins leading cities such as San Francisco, Vienna, Copenhagen, and London in adopting a holistic approach for prioritising future infrastructure needs based on its long-term economic and environmental goals,” said Dr Busch.

Key findings of the study are:

1. Investments in the building, transport and energy sectors can help Adelaide reduce CO₂e emissions by a further 56% by 2025 compared to a business as usual scenario.
2. Although investments in renewable energy in the State have been unprecedented, building floor area growth and hence energy demand in the

City of Adelaide have offset some of the emission reductions. Therefore, decarbonisation efforts need to span energy, building and transport.

3. The commercial sector remains the largest source of emissions in Adelaide. With new programmes such as the introduction of Building Upgrade Finance being rolled out in 2017, the city can benefit from over 15% savings in buildings related emissions through just five building technologies modelled in this study.
4. This study modelled potential savings in the transport sector based on two scenarios. The first, a mobility future based on low emission vehicles with medium public transport investment delivering 47% savings in transport related emissions. The second, a future with higher public transport / lower uptake of low emission vehicles, delivering over 38% savings in transport related emissions.
5. Cutting emissions by about 56% over the next decade has the equivalent gross employment opportunities of 23,000 full time jobs in installation, operation and maintenance jobs in low carbon energy, public transport mobility and building systems.

The full report can be viewed here:

http://www.environment.sa.gov.au/files/sharedassets/climate_change/carbon-neutral-adelaide-rep.pdf

- i) One full time equivalent job (FTE) equates to 1800 hours of labour. 10,000 FTEs relates to the total employment output over the next decade. Future potential calculated against a 'Business as Usual' scenario in 2025.
- ii) Figures are potential and subject to future policy and large transport infrastructure investments by Government (i.e. electrification of rail, tram expansion, etc.).

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