

Cities Power Partnership Summit

18 October 2018



Eastern Suburbs Low Carbon Plan



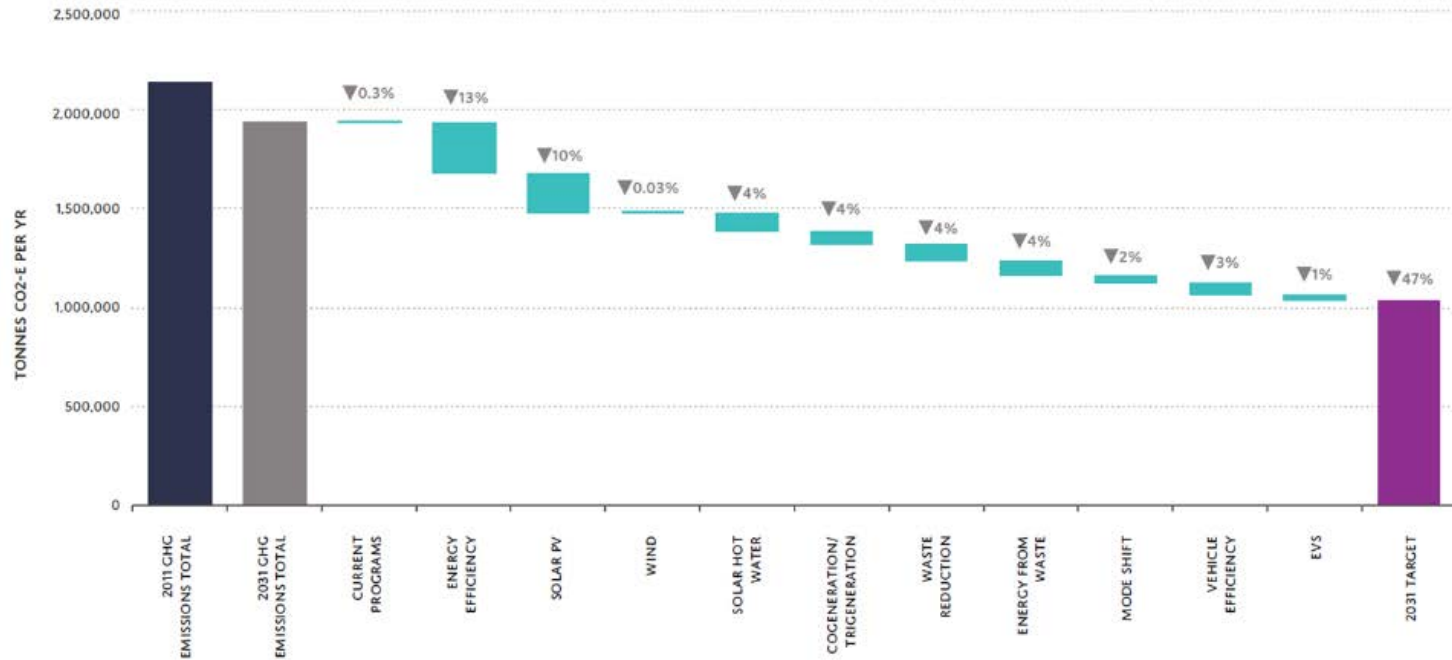
EASTERN SUBURBS LOW CARBON FUTURE PLAN

PREPARED BY KINESIS FOR WAVERLEY, WOOLLAHRA & RANDWICK COUNCILS

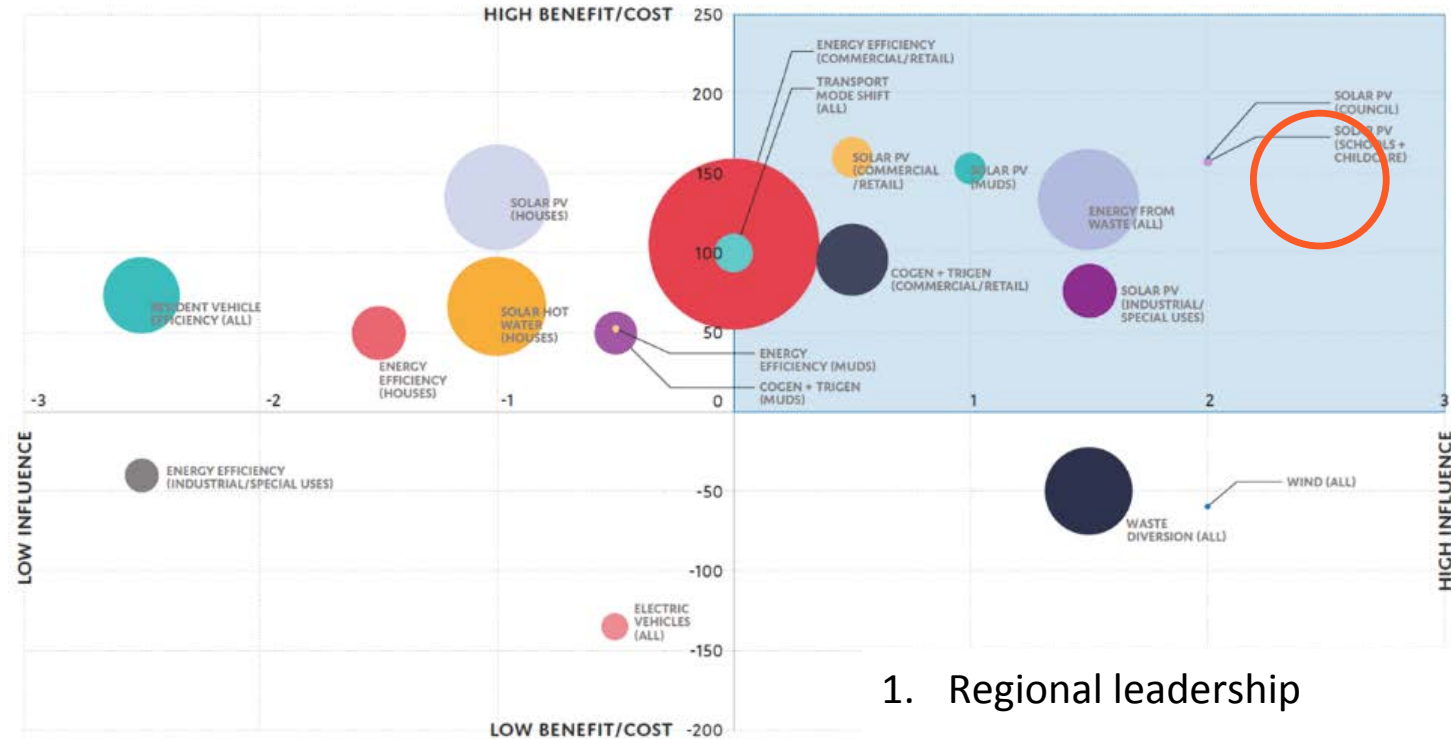
4 DECEMBER 2015



What Is Our Pathway To Reducing Emissions?



Identifying priorities



1. Regional leadership
2. Market facilitation
3. Regulation / control / advocacy

A good time for solar



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'Huge surge': Solar energy take-up hits new high as gas, electricity prices jump



Locals invited to invest in Sydney community solar project, to help make "solar beer"



The fall and fall of rooftop solar prices: four years of data

2

theguardian

How solar power could help schools spend more on education

Solar panels on school roofs would create a new income stream for headteachers and local authorities





SOLAR GENERATION

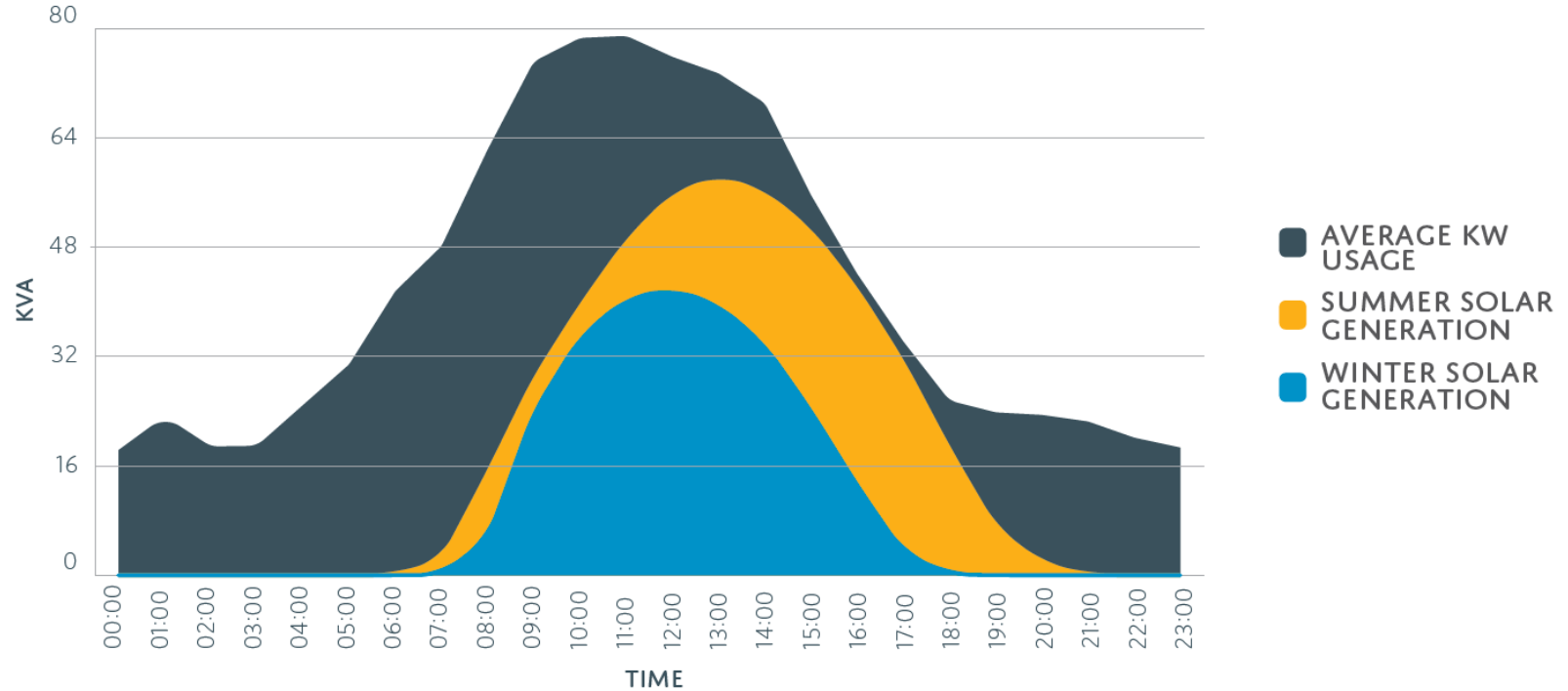


FIGURE 7. Seasonal solar generation for the proposed 99kW solar system superimposed on the average daily load profile.



Bronte Public School has installed the largest solar power system on a primary school in the Eastern Suburbs, with the help of the Solar my School program.

The school received funding from the Waverley Council Small Environment Grants program, as well as the NSW Department of Education to help finance the system. Annually the system will:



Save 33%
on facility's
energy bill



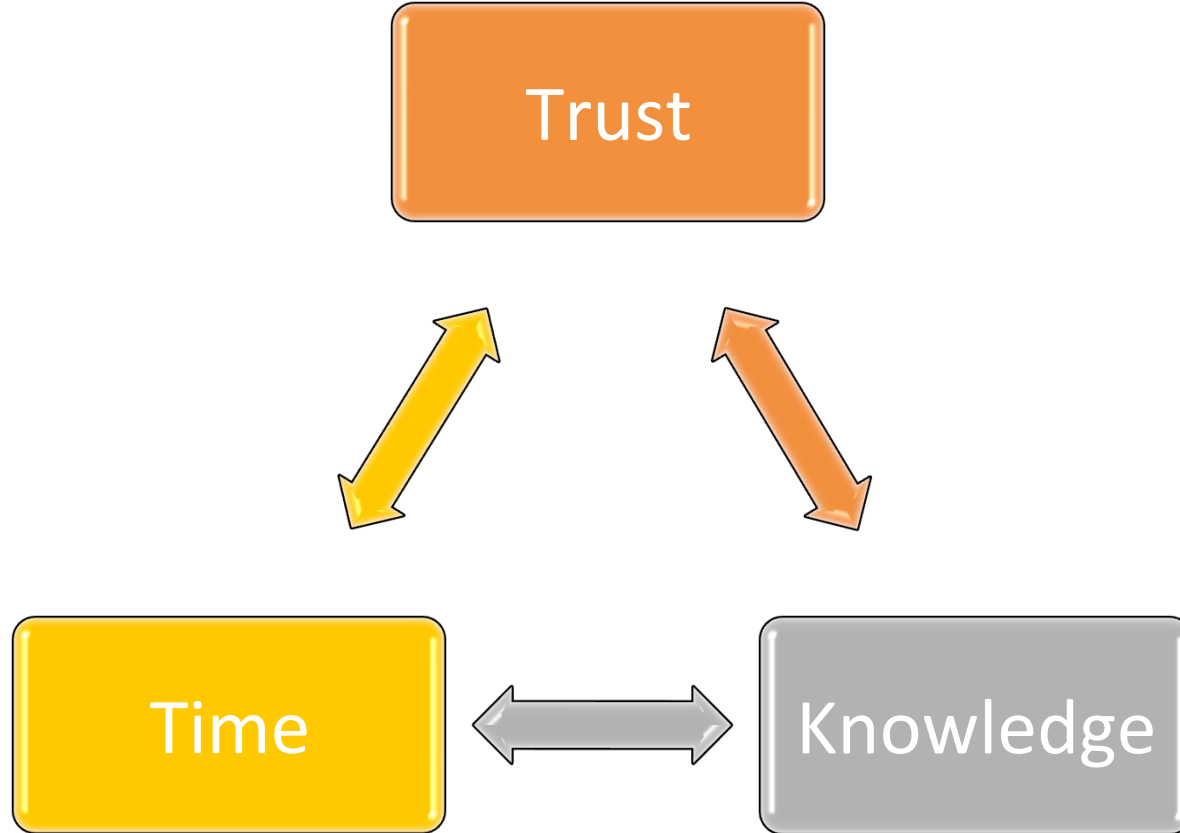
Produce enough power
equal to running 220
computers or 8 homes



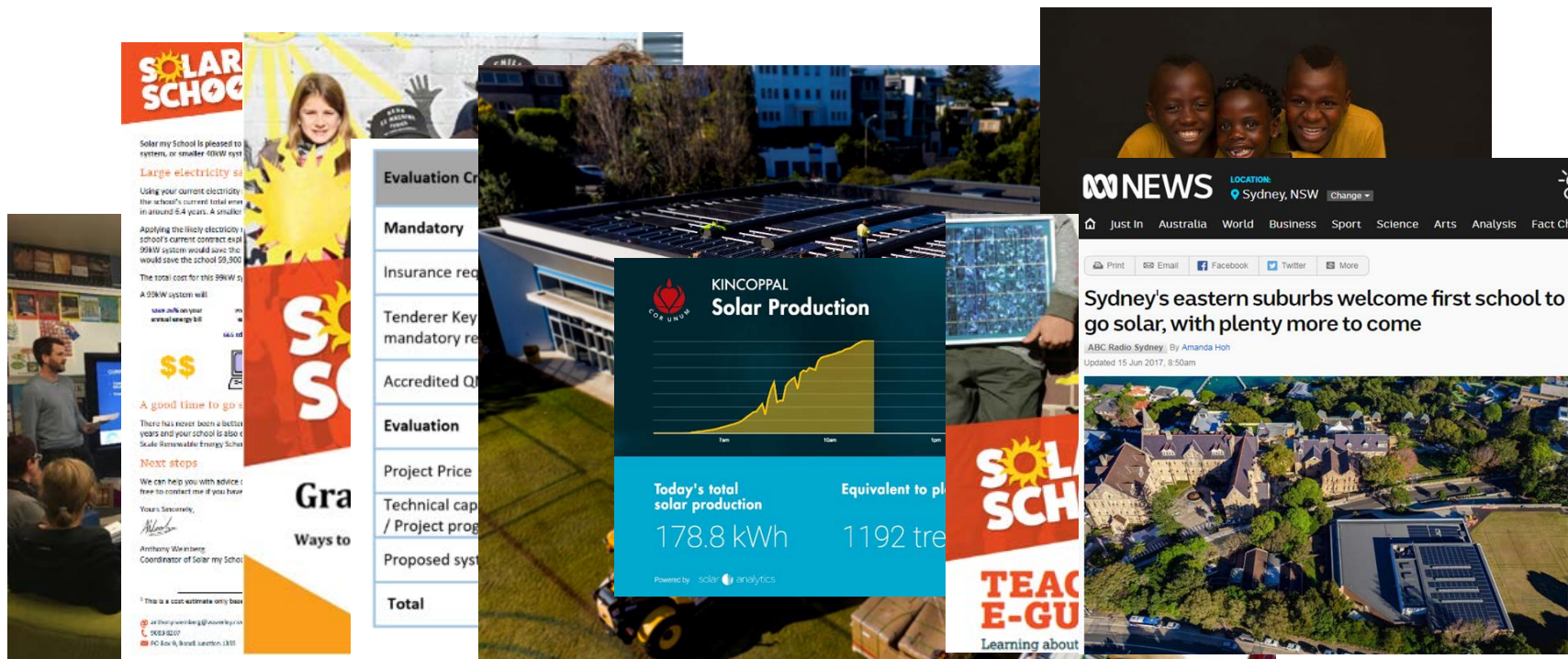
Reduce
carbon
emissions by
39 tonnes



Equivalent to
taking 14 cars
off the road



	Assess feasibility	Seek funding	Install system	Education & promotion
KEY STEPS	<ul style="list-style-type: none"> Electricity consumption and usage patterns Solar size and location Costs and savings Payback 	<ul style="list-style-type: none"> Internal budget External grants Government assistance Fundraising activities 	<ul style="list-style-type: none"> Seek quotes for quality product Select & contract supplier System maintenance & monitoring 	<ul style="list-style-type: none"> Launch project Curriculum Community engagement Role model for local community
COUNCIL ASSISTANCE	<ul style="list-style-type: none"> Objective advice Feasibility study Site visit Face-to-face meetings <p>START</p>	<ul style="list-style-type: none"> Funding advice and support Assist with grants applications Fundraising ideas 	<ul style="list-style-type: none"> Technical specification Contract preparation Tender evaluation Post-install inspection 	<ul style="list-style-type: none"> Launch event Council media channels Students engagement Education guide <p>END</p>



Start

Finish

Partner schools



OUR IMPACT



2,033

Solar Identified (kWp)



2,495

Locally Produced Clean Energy (MWh/yr)



12,473

Computers Powered Annually



351,725

Cost Savings (\$/yr)



2,220

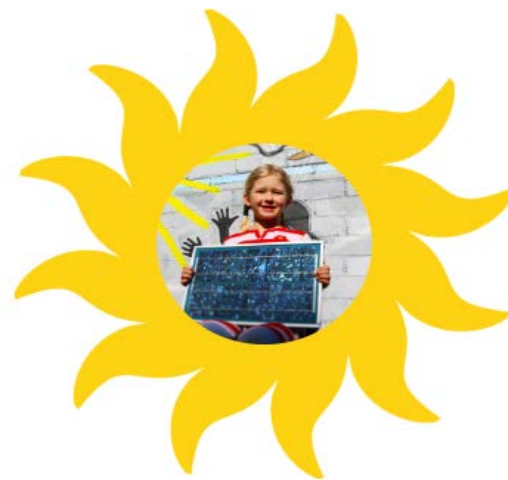
CO2 Emissions Avoided (tonnes/yr) = 779
cars off road annually



23,496

Student Reach

- 1. Facilitation model** - Council as trusted partner
- 2. Leverage funding** – bang for buck
- 3. Collective impact** – education, financial, social and environmental
- 4. Simple and scalable**



Council as trusted partner



27 Council sites have gone solar:

- Waverley: 13 sites
- Woollahra: 6 sites
- Randwick: 8 sites

Total = 455kW



Cooper Park Community Hall



1. Grants – Grants Guide
2. Solar pays for itself
3. Funding Partners



Clovelly
Community Bank® Branch  **Bendigo Bank**





13th September 2017

To the Hon. Robert Stokes MP
Minister for the Education

We are reaching out to you to seek your feedback on opportunities and barriers that public schools are facing with regards to solar power.

Waverley, Woollahra and Randwick Councils in Sydney's Eastern Suburbs are committed to reducing greenhouse gas emissions across the region and are working with the community and businesses on a number of local projects to achieve measurable improvements in solar PV capacity.

Our three Councils have developed a targeted program called *Solar My School*, which aims to help private and public schools navigate a path to solar success, from start to finish. The Solar My School program is currently working with 30 of the 71 schools in the Eastern Suburbs to help them choose the right solar power system, set them up with a reliable installer, and provide materials to educate students about the benefits of renewable energy.

The program supports NSW Government policies including the State's aspirational objective of achieving net-zero emissions by 2050. In particular, the program helps to deliver on the Renewable Energy Action Plan by increasing renewable energy projects and investment and building community support for renewables. It also supports implementation of the Government Resource Efficiency Policy by reducing government's operating costs while reducing emissions.

The Asset Management Directorate of the Department of Education is supporting our program by co-funding 50 percent of the installation cost for public schools, with the remaining funding coming from the school itself, the Parents & Citizens Associations (P&Cs) or via grants. A number of our local schools like Coogee Public School, Randwick Public School, Bronte Public School and Bondi Public School have spent the last year fundraising and are on track to install solar systems between 25-40 kW before the end of 2017.

Unfortunately, under the current financial arrangements, although the school pays 50 percent of the cost of the solar installation, there is no guarantee that the school will receive the financial savings from reduced power bills. A school that has installed solar and is therefore using less grid-electricity will be able to retain the savings temporarily, until the DoE's Schools' Finance Team recalculates the school's base allocation for utilities.

What this means in practice is that there is little encouragement or incentive for many of the schools or P&Cs to contribute to the cost of installing solar. Schools like Randwick Girls High, South Coogee Public and Rose Bay Public are ideal sites for solar, each have completed feasibility studies and have raised funds but have decided not to progress to the tender stage because there is no guarantee that the school will receive any of the financial benefit over the medium to long term.



Rob Stokes
Minister for Education

Mr Anthony Weinberg
3-Council Regional Environment Program Coordinator
Waverley, Woollahra and Randwick councils

RML17/3235
RML17/3201

Anthony.weinberg@waverley.nsw.gov.au

Dear Mr Weinberg *Anthony,*

I write in response to your emails regarding the Solar My School Program, and your recent meeting with my office and School Infrastructure NSW staff on 26 October 2017. It was a pleasure to meet you and your colleague Nicola Saltman at the opening of the new facilities at Bellevue Hill Public School.

I have sought clarification and advice from the Department of Education on this matter and I am advised of the following.

The department supports schools looking to reduce emissions and energy costs through the installation of solar power. The NSW Government welcomes initiatives like Solar My School that work with schools to assist in the selection of appropriate renewable energy systems.

I appreciate that the current arrangements do not provide for financial savings or the recovery of installation costs by schools for generating solar power. I have asked School Infrastructure NSW to investigate options to provide effective and equitable incentives for schools to invest in renewable energy sources. Your proposal for an alternative model that allows schools to receive a financial benefit is noted and will be considered as part of this process.

Schools that have installed solar PV systems under the department's current arrangement will be informed of the outcome of this investigation and any associated changes to funding under the current Resource Allocation Model and financial business rules.

I encourage you to continue to work with School Infrastructure NSW to promote sustainability and renewable energy generation in NSW public schools.

Should you require any further information or assistance, you may wish to contact Mr Robert Fraser, Group Director, Property and Facilities Management, School Infrastructure NSW, by telephone on 6581 8363 or email at Robert.Fraser23@det.nsw.edu.au.

Thank you for bringing the Solar My School initiative to my attention.

Yours sincerely

Rob Stokes
Minister for Education

7 NOV 2017



1. Expansion
2. Childcares
3. Clubs
4. Batteries
5. Rental properties
6. Other Councils



Thank you!

