

Darebin Solar Saver

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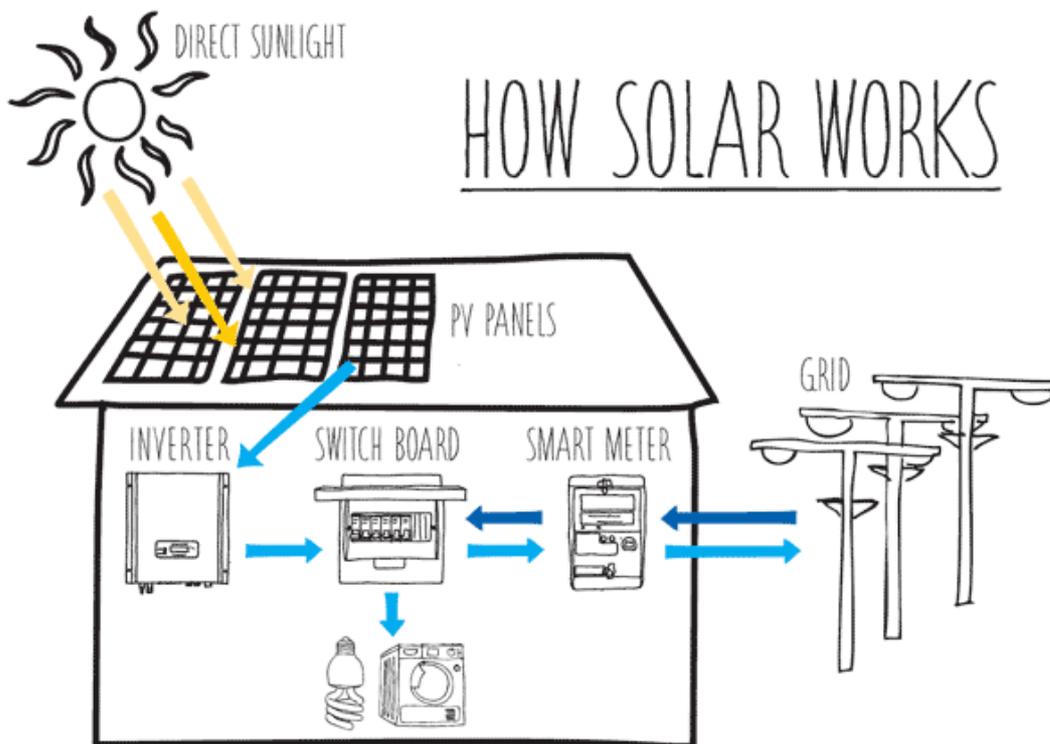
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1. Why go solar?

By generating your own solar electricity, you'll be saving on your energy bills. By installing local, clean energy, you'll also be helping to keep our air clean and our climate safe. Council has set a target to double Darebin's solar energy generation over the next four years – so you're also helping us as a city to reach our goals.

2. How does solar work?

Solar panels on your roof convert energy from sunlight into direct current (DC) electricity. The DC power is then transformed by the inverter into alternating power (AC), which is used in your house or exported to the grid. Your smart meter records energy being imported from and exported to the grid. For the electricity you export to the grid, you get paid by your energy retailer – this is called a feed-in tariff. The minimum feed-in tariff is currently 11.3 cents but is about to change – [see Question 25](#). Generally, you pay more than this for the energy you buy from the grid. This means that generally, the more of your daily power usage happens during the day, the more financial benefit you will get from solar.



You can find out more about solar on [our website](#).

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3. Who can apply?

Our solar programs are open to all households, businesses and organisations in Darebin.

Anyone can apply as long as:

- You are the property owner OR you have their permission (we can help you if you haven't yet had that conversation with your landlord, owners' corporation or housing provider)
- The property is in Darebin.

There are some extra considerations for some applicants:

- **Renters**
 - You will need permission from the owner of the property. The owner of the property will need to agree to make the additional 'special charge' payment applicable to the Solar Saver program. We can help you with this.
 - If you are in social please let us know. We may be able to work with your housing provider.
 - If you are public housing we won't be able to include you this time but we will keep you posted if that changes.
- **People living in flats, units and apartment buildings**
 - For many apartment buildings, flats and units, your roof is part of what is called a *common area*. Each property has equal share to the roof space.
 - Solar power systems **cannot** be shared across separate apartments. Individual solar systems are required for each apartment wanting to access the solar power.
 - If your roof is a shared space you will need permission from your Owners' Corporation.
 - We recommend that you get this permission in writing, and that you forward this to us to keep with your records (however that is not a requirement to participate in the program).
 - There may not be enough space for each and every apartment to install solar PV panels.
- We recommend you start a solar conversation with your neighbours as soon as possible. We can help you with this.
- Some advice on talking to your Owners' Corporation:
 - Ask to put solar on the agenda at your next Owners' Corporation meeting.
 - Think about how you can communicate with other owner's before the meeting – do you have a group Facebook page, an email list, or phone number for your fellow owners? Or could you put up a notice on a noticeboard or drop a note into their letterboxes? If you need help with this, please ask us – we can provide a template or point you to appropriate materials. This FAQ could be a good start.
 - If you don't already attend Owners' Corporation meetings, find out how many owners usually take interest and what quorum is (how many people do they need to attend to make a decision)?

- Keep the communication positive. Your neighbours and/or other owners may also be interested in our solar program too – share our website with them www.darebin.vic.gov.au/solar
- If you want to read more about sustainability for multi-residential buildings check out [these resources from the City of Melbourne](#).
- If you need help, please ask us.

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4. How do I apply?

You can register your interest by completing the online form at www.darebin.vic.gov.au/solar

If you don't have access to the internet we can complete this with you over the phone. You can ask for an interpreter if you would like help in your language.

By registering your interest you *are likely to* be offered a free, **no-obligation quote** for solar to be installed. Council **cannot guarantee** you will be accepted into the program.

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5. Is solar the best option for my house?

Solar is now financially beneficial for nearly every household.

When you apply for one of our solar programs, our solar provider will first do a desktop assessment using satellite imagery to see whether solar is suitable for your roof. They may also ask you about the amount of direct sun reaching your roof.

While facing due north is the ideal orientation for maximum solar generation, other orientations can also work. They may be a little less efficient than north-facing panels, but for most households, it will still be more than worthwhile to install solar. West-facing panels may even generate more power during the times you use the most.

You may also have heard that the angle of your roof is important. The optimum angle is 20–25 degrees, however if you have a flatter roof, an adjustable tilt frame can be installed to bring the panels up to the ideal angle.

If solar is a viable option for your house then a free, **no-obligation quote** will be arranged. Our solar provider will come to your property to double-check your roof and discuss the quote with you.

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6. What sort of system will I need?

There are five sizes* of system being offered through our current solar programs:

- 2kW (8 panels)
- 3kW (12 panels)
- 4kW (15 panels)
- 5kw (18 panels)

*Note that the kilowatt size is approximate – see question 20.

The solar provider will talk to you about what system will fit on your roof and best meet your needs. With the current (and new) feed-in-tariff, generally the rule of thumb is now that the bigger your system, the more efficient and the greater the financial savings.

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7. Will the installation require significant modifications to my home?

No. Solar PV systems are typically installed with minimal modification to your house. The frames for the solar panels are usually incorporated into your existing roof, and the cables run inside the roof and walls where possible. Sometimes a special kind of mounting called a tilt-frame is needed, which may add to the cost but will not affect your roof.

For a tiled roof, some of the tiles are removed, brackets attached to the rafters in the roof, and then the tiles go back into place. Having spare roof tiles handy during installation would be ideal as old tiles can become brittle and cracked. For a tin roof it is even easier because the frames are mounted directly onto the roof.

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8. What about batteries?

For most Darebin households, batteries are not yet as financially beneficial as solar PV alone. For most households, it is likely that it would take about 10 - 15 years before a battery would 'pay for itself'. At this stage Council is recommending that households install solar now, so you can start getting the benefits.

The Solar Saver program does not include batteries, however, if you purchase your solar system through the [Solar Bulk Buy](#) program by paying up front, you *may* be able negotiate a battery with the provider for a higher price.

If you buy solar now, in most cases you can add batteries later when they become cheaper, however you may need additional equipment and ensure additional works do not void the warranty.

Council will continue to closely watch market prices and value of installed battery packages and provide advice accordingly.

[Read more](#) from Positive Charge about solar batteries.

9. Will I need a permit?

Unless you are in a heritage area or your property is a listed heritage building, you won't need a permit. Generally, even if you are in a heritage area, if your panels are not visible from the street (or a public park) you won't need a permit. Usually only about 3% of Darebin applicants need a permit, and if you are one of them, we will guide you through that process, pay for your permit, and submit the paperwork on your behalf.

10. Will my smart meter be compatible with the solar system?

Yes. Smart meters are designed to be compatible with rooftop solar systems. They will regularly measure the power sent to the electricity grid from your panels. When your solar system is installed your Electricity Distributor Network (CitiPower, Jemena or AusNet) will reprogram your meter remotely so that the smart meter knows you have a solar system. There will be a small, one-off fee for this service – usually in the order of \$50-100, which will be added to your next electricity bill if you are concerned about this fee please talk to us.

11. What is the Solar Saver Program?

The Solar Saver program helps Darebin residents, organisations and businesses to install solar photo voltaic panels. Council pays the up-front cost of the system (including installation) and the ratepayer pays the cost back over 10 years, interest-free. All systems come with a 10 year warranty on all parts and and installation, and a 25-year performance warranty on the solar panels.

See also [What are the details of the systems being offered?](#)

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12. What is the Solar Bulk Buy Program?

The Solar Bulk Buy program is the same as the [Solar Saver](#) program except that you pay the up-front cost of the system (or organize your own loan). Participants benefit from knowing Council has done the homework to make sure you can access:

- A reliable supplier and installer
- Quality panels and inverters
- Extended warranties
- A discounted price.

In other words, you get the benefits of solar, value for money and peace of mind.

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13. What are the differences between the Solar Saver and Solar Bulk Buy programs?

There are four main differences between the two programs

- With Solar Saver, Council pays the up-front cost. With Solar Bulk Buy, you pay the up-front cost (or arrange your own loan).
- Solar Bulk Buy prices are 10% higher because they are GST-inclusive. (Whereas GST is not payable in the Solar Saver program.)
- Solar Saver installations will not occur until at least July 2018. (see also [How long will it take to get my system installed?](#))
- With the Solar Bulk Buy, there *may* be some opportunity to negotiate with Council's solar supplier for modifications to your system (such as a different inverter or inclusion of a battery) – however this is at the supplier's discretion.

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14. How much will it cost?

Don't forget that if you are participating in the Solar Saver program, **you will not pay any up-front cost at all for the system or associated works**. You will pay a small additional charge (called a Special Charge) each quarter – and your electricity savings should more than make up for these charges. See "How much will I save?"

The only out-of-pocket expense for you will be the connection fee through your energy retailer (this includes remote programming of your smart meter) – usually in the order of \$50-100, which will be added to your next electricity bill. Talk to us if you are concerned about this fee.

The cost of your solar system will vary depending on:

- The size of your system
- The type of house/building you have (i.e. one storey vs higher)
- Whether you need a special mounting system (which depends on what type of roof you have – angled or flat, tile or tin etc)
- Whether you need any additional/complex works completed, namely
 - If you don't have a smart-meter you will need a new one installed, and this could cost \$400-500 (this is extremely unlikely to be the case).
 - If your switchboard needs to be upgraded in order to meet the requirements of your solar system you may need to pay \$800-1000 for a new one.
 - Whether you need a 'split array' – that's when you need to spread your panels across multiple sides of your roof or roofs of different buildings.
- Which program you participate in (Solar Bulk Buy prices are 10% higher due to GST).

Indicative price-ranges are included below – these cover the range for standard installations and for two-storey houses and special mounting systems. The prices could be higher if you need additional or complex works as described above.

	System size – prices ranges (depending on your roof and house type)			
Program	2kW	3kW	4kW	5kW
Solar Saver	\$2,857 – 3,623	\$3,640 – 4,803	\$4,445 – 5,720	\$4,970 – 6,416
Solar Bulk Buy	\$3,143 – 3,986	\$4,004 – 5,284	\$4,890 – 6,292	\$5,467 – 7,058

The exact cost will be determined by our solar provider when they visit your property to do an assessment. They will check whether any of these upgrades are applicable to your household. If upgrades are required, your quote will be adjusted accordingly.

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15. How much money will I save?

These programs are designed to save you money. The exact amount of savings will be different for each participant and depend on:

- How much electricity you currently use, when you use it, and what you pay for it
- The size of the solar system you choose
- The feed-in tariff (the price you get back when your excess energy goes back into the grid – currently 11.3 cents – this about to change – [see Question 25](#))
- Which program you participate in.

To give you an indication of what you might save in a year, if you are participating in the Solar Saver Program you are likely to save a minimum of \$70 for a small system, with a potential maximum of over \$950 for a large system, per year.

The table below breaks down the potential savings for Solar Saver participants per year based on your system size.

System size – projected net annual savings (depending on multiple factors)			
2kW	3kW	4kW	5kW
\$26-\$356	\$94-\$603	\$105 -\$843	\$110-\$928

If you are a participant in the Bulk Buy, your system is likely to “pay for itself” after 4-14 years – depending on the size of your system, and the amount of power you use directly as opposed to feeding back to the grid. The bigger your system, and the more power you use directly (or are able to save), the faster your pay-back period.

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16. How long will it take to get my system installed?

Solar Saver installations will not take place until July 2018 at the earliest.

How long it takes to have your new solar system installed will depend on when you sign up, what stage the project is up to, how much demand there is, and where you live. As a rough guide, installations for the next phase of **Solar Saver** will occur from July to December 2018.

This could mean a wait of some months, especially if you sign up early in the program. We are committed to keeping you informed of our progress and will be working with you over that time to make sure the installation process runs smoothly when it commences.

For most standard systems the actual installation itself can be completed in a single day. Houses with a tin roof are generally quicker to install than those with tiles.

Please note also that once your system is installed, it may take some weeks for your retailer to connect your system to the grid. The installer will submit this request on your behalf once your system has been installed.

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17. Why is there a delay for Solar Saver installations?

There are three reasons.

1. The Solar Saver funding will not be available until July 2018.
2. Because Solar Saver involves an alteration to your rates payments called a Special Charge, the Victorian Government requires us to go through some formal processes. These take quite some time, so we need to start now in order to install systems in July.
3. There has been a huge amount of interest in the program so we have many people on our waiting list.

The required processes include:

- Finalizing the details of every household participating in the Special Charge Scheme
- Giving public notice of the Special Charge Scheme
- Writing to all affected ratepayers
- Allowing at least 28 days for people to make submissions
- Considering the scheme and any submissions at a Council meeting before adopting the Scheme.

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18. What are the steps involved for me?

If you have already registered your interest, you will be contacted in late 2017 to early 2018 to confirm your details, provide some additional information, and make sure you are ready for the supplier to arrange a quotation with you.

If you are registering your interest now for the first time, you will be contacted to confirm your details and the supplier will contact you, generally within approximately two weeks. The supplier will have conducted a desktop assessment based on your address, and if your property is a viable candidate for solar, will arrange to visit you to provide you with a free, no-obligation quote.

If you are participating in the **Solar Saver program**:

- Council will then contact you with the finalised offer, based on that quote. If you wish to accept the offer, you will sign an agreement with Council to pay off the system through the Special Charge Scheme.
- Council will then have to go through a process to have your Special Charge approved, and then will contact you to let you know that the installation phase is about to get underway.
- The Supplier will contact you to arrange a time to install your system.
- After the installation, EnviroGroup will contact your Electricity Distributor Network (CitiPower, Jemena or AusNet) to make sure your solar system gets connected to the grid. This can take a few weeks to be processed.
- Council will stay in touch to make sure you know how to get the most out of your system. If there are any problems with your system, you can get in touch with the supplier.

If you are participating in the **Solar Bulk Buy Program**:

- Once you are contacted by the supplier, EnviroGroup, they will arrange to visit you to provide you with a quote and it is up to you to decide whether you would like to go ahead with the installation.
- Your agreement will be with EnviroGroup, not with Council, and you should get in touch with them in the first instance to resolve any questions or issues that come up.

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19. How do I pay my system off over time?

If you participate in the Solar Saver program, Council pays the upfront cost and you pay your system off over time.

After your system is installed, Council will send you a quarterly Special Charge notice, just like we send you a quarterly rates notice. You pay off your system in this way over 10 years, or you can choose to pay it off more quickly. You won't be charged interest, and the savings you make on your electricity bill should more than cover these Special Charges. In fact you should be at least \$70 better off per year with a small system, and up to just over \$950 better off per year with a larger system.

After you have paid off your system, it belongs to you and you continue to save. Until then, Council owns your system.

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20. What are the details of the systems being offered?

Solar panels are often categorized into 'tiers' with 'Tier 1' panels being high quality panels offered by a reliable manufacturer. The panels that make up the solar systems on offer through our solar programs are Trina panels, and they are Tier 1. Each panel has the capacity to produce 270 watts of electricity. The inverters are Sungrow products.

The table below summarises the details of the systems on offer.

Components	2.2 kW	3.3 kW	4.125 kW	4.95 kW
Panel make and model	Trina 275W – TSM-275PD05			
Panel size (watts)	275	275	275	275
Number of panels	8	12	15	18
Inverter make and model	Sungrow - SG2KTL-S	Sungrow - SG3KTL-S	Sungrow - SG5KTL-D	Sungrow - SG5KTL-D

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21. Who will install the systems?

Our supplier is EnviroGroup and they will install the solar system. You may be aware of EnviroGroup's local storefront, EnviroShop, in High Street Northcote. It's important to make sure that, if you receive a call from a solar company, you are speaking to EnviroGroup. Unfortunately there have been a number of competing solar companies in other Council areas who have attempted to pass themselves off as being the Council supplier. EnviroGroup will have access to your **unique customer service number**. If you are approached by a solar company representative without any warning from us and who does not know your unique Solar Saver customer reference number, they are not associated with Council. Please ask for their contact details and alert us. Do not sign any documents or

give your personal details to any other organisation if you are intending to participate in Darebin's solar programs.

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22. Does the system come with warranties? How long will it last?

All of the components (inverter and panels) come with a 10 year product warranty. The installation and workmanship also come with 10 year warranties. In addition, the panels come with 25 year performance warranty, meaning that if they degrade to a point where they do not meet performance expectations, they will be replaced. As a rough guide, solar panels have a life expectancy of around 25 years. These panels are made with a low-iron tempered glass face and are specifically designed and certified to withstand large hailstones. The aluminium frames are anodized for extra durability and long life.

23. What about insurance?

We recommend that you check with your insurance provider to ensure that your panels are covered by your insurance in case something happens to them that is outside the conditions of the warranty, particularly during the period when you are still paying them back.

24. What is the Authority to Release Information to Third Parties form for?

You will receive a billing data form with your agreement. This authorises the collection of data directly from your energy provider. You do not have to share your billing data, but it helps us to understand the overall effect of the project.

25. What happens with my power bills?

If your solar power system generates more electricity than you need, you will receive credits on your bill for any electricity that is fed into the grid. The minimum feed-in-tariff increased from \$0.05/kWh to \$0.113/kWh on 1 July 2017. The Victorian government has just announced some further changes. Unfortunately, the flat rate has decreased slightly – from 11.3c per kilowatt hour to 9.9c per kilowatt hour. The good news is that there is also an option for a peak and off-peak rates, with a higher feed-in-tariff in the late afternoon to early evening. This period is still quite productive for solar generation during much of the year, so this could benefit solar households, especially those with west-facing panels.

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26. Are there other ways that I can make my house more energy efficient?

Yes. You can go to our website or Sustainability Victoria to learn ways to save electricity costs by making some simple changes at home. There are easy things to do like choosing cold water for your washing machine, fitting LED lights, or fitting draught stoppers to your

windows and doors. There are great resources available for people renting, seniors and advice for different times of year. Go to <http://yourenergysavings.gov.au/guides/reduce-your-energy-bills>

You can also check out Darebin's website for more energy saving tips:
<http://www.darebin.vic.gov.au/en/Darebin-Living/Caring-for-the-environment/EnergyClimate#Saving-Energy>

Installing solar **may require some changes** to your daily routines to make the most of your day-time electricity generation. We will provide you with specific information prior to installation and afterwards.

27. Do I need to clean or maintain the panels?

Manufacturers sometimes advise you to wipe the panels down with warm water perhaps once a year. This is because small collections of dust, dirt and bird droppings may affect the output – particularly if the pitch of your roof is less than 15 degrees. It's not likely to have a major impact in the short term, but build-up over time could reduce the effectiveness of the solar panel. If you don't feel confident about getting up on the roof, don't. Given that the impact is not likely to be great, you might choose not to clean the panels at all, or you might choose to pay someone to do it or ask a family member to help.

28. What happens in the event of a power failure?

If there is a black-out your solar power system will instantly and automatically shut off. This is Australian law and is designed to protect electrical line workers. When the grid power is shut off, the workers expect the lines to be dead so they can safely repair faults.

29. What happens if I sell my house?

When your property is sold, any remaining repayments to Council will be taken out of the proceeds of the sale. This is similar to the process for any remaining Rate payments.

30. Who do I contact with further questions?

Email your question to solar@darebin.vic.gov.au. Please include your name, address and contact number (preferably mobile).

Alternatively you can contact:

Sally MacAdams: sally.macadams@darebin.vic.gov.au | Climate Action Officer |
Ph: 03 8470 8208.

Philip Werner: philip.werner@darebin.vic.gov.au | Solar Saver Support Officer |
Ph: 03 8470 8389

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31. GLOSSARY

Distributor = the company that is responsible for distributing energy and maintaining the powerlines and poles that carry your electricity. There are three in Darebin: AusNet, Jemena and CitiPower.

FIT = Feed-In Tariff = the money you get paid when you feed excess energy back into the grid. Currently the minimum FIT in Victoria is 11.3 cents per kilowatt hour. This about to change – [see Question 25](#).

Inverter = the machine that converts the energy collected by your panels into energy you can use in your house.

kW(hr) = kilowatt (hour) = unit of measure for electricity consumption (per hour).

NMI = National Meter Identifier = a unique number that identifies your home or business for the purpose of electricity billing. You can find your NMI on any electricity bill.

Pitch = angle (of your roof) – this affects your solar panels because they need to be on a particular angle to the sun to be most efficient (can be adjusted by using special mounts).

PV, Solar PV = (Solar) Photo Voltaic (Panels) = Solar Panels.

Retailer = the company that sells you electricity (eg Origin, AGL, TruEnergy, Powershop, Diamond Energy etc etc).

Smart Meter = the device that records your electricity use. This is how your power company (retailer) knows how much to charge you. It also tells them how much energy you are putting back into the grid.

Special Charge Scheme = a mechanism that allows Council to buy your solar system up-front and you to pay back the cost over time. The way this works is that Council will charge you a small additional payment (a Special Charge) on your quarterly rates notice. You can repay the loan over up to 40 instalments over up 10 years in this way.

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