6. **Is there any payment to be made by prepaid customers?**
   There is no payment to be made by affected prepaid customer. Cost to re-program the prepaid meters is carried by Stellenbosch Municipality

7. **What will happen if my meter is not re-programmed?**
   The electricity meter will not accept any new tokens purchased after the 24 November 2024 as the meter will consider the token as being "OLD"

8. **Why was the TID not designed to last longer than 31.9 years?**
   ❖ The token string would be much longer than 20 digits - Impractical for consumer entry on keypad

   ❖ It is normal practice to upgrade the cryptographic strength at least every 30 years

   ❖ It is thus a good compromise to converge the timing of these two elements into one operation

9. **Where can I obtain further information?**

   CONTACT US:

   ☎ 021 808 8215 / 8953 / 8343
   ▢ WHATSAPP: 076 951 0768
   ✉ ENGINEERING.SERVICES@ STELLENBOSCH.GOV.ZA
   🌐 https://www.tidrollover.com/

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JOIN US

- IN RESOLVING THE PENDING RISK AFFECTING ALL ELECTRICITY PRE-PAYMENT METERS.

- THE TOKEN IDENTIFIER (TID) WILL RUN OUT OF AVAILABLE NUMBERS BY NOVEMBER 2024.

JULY 2020

WE'LL REMEDY THE SITUATION

- BY VISITING EVERY RESIDENCE TO ENTER A SPECIAL CODE TO ALL ELECTRICITY PRE-PAYMENT METERS.

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**- TID ROLLOVER -
THE TIME IS NOW!**

1. **What is TID Rollover?**
   The Token Identifier is a 24-bit field, contained in STS compliant tokens, that identifies the date and time of the token generation. It is used to determine if a token has already been used in an electricity pre-payment meter. The TID represents the number of minutes elapsed since the base date of 1st January 1993. The incrementing of the 24-bit field means that at some point in time, the TID value will roll over to a zero value.

   All STS electricity pre-payment meters will be affected by TID roll over on the 24/11/2024. Any tokens generated after this date and utilizing the 24-bit TID, calculated on base date 1993, will be rejected by the meters as being old tokens as the TID value encoded in the token will have reset back to 0.

   In order to overcome the TID rollover occurrence, all meters will require key change tokens with the roll over bit set. In addition to this, the base date of 01/01/1993 will be required to be changed to a base date of 01/01/2014.

   This process will force the electricity pre-payment meters to reset the TID stack memory to 0. To avoid previously used tokens from being accepted by the meter due to the TID stack reset, the key change process changes the meter key at the same time.

   A process is therefore required to allow for the management of this TID Rollover key change with the least impact to the utilities and equipment suppliers.

2. **Is TID rollover only applicable to Stellenbosch**
   TID rollover is not only applicable to Stellenbosch Municipality's prepaid customers but also anyone in South Africa who owns an STS electricity pre-paid meter. Eskom and other municipalities are required to start with action plans to start re-programming their prepaid meters.

3. **What is Stellenbosch Municipality's Action Plan?**
   Stellenbosch Municipality is in the process of appointing a service provider that will be visiting each and every household that has a prepayment meter to enter a 20 digit special token, by doing so changing the base date of the meter to 2014. Name of the service provider and the people that they will making use of to do the house visits will later be communicated once the appointment has been made. Actual work is expected to start beginning of July 2020.

4. **How can the customers assist**
   ❖ The client can assist by grant the appointed technician access to the electricity meter to enter the special token in the meter.

   ❖ Customers are to ensure that they only allow persons with a valid ID card that has Stellenbosch municipality logo. Pictures with full names of such personnel doing house visits will be made available for public.

5. **How long will the re-programming of the meter takes?**
   It will take 5 to 15 minutes depending on the type of the prepaid meter.