



ROTA NEWS

April 24, 2014

Rotary Club of Barbados, Barbados

Chartered March 07, 1962

District 7030



R.I Theme 2013-2014

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The Four Way Test

Of the things we think, say or do

1. Is it the **TRUTH**?
2. Is it **FAIR** to all concerned?
3. Will it build **GOODWILL** and **BETTER FRIENDSHIPS**?
4. Will it be **BENEFICIAL** to all concerned?

Weekly meetings on **Thursdays** at
Hilton Barbados

Needham's Point, Aquatic Gap,
St. Michael at 12 noon

P.O. Box 148B, Brittons Hill,
St. Michael, Barbados
www.clubrunner.ca/barbados

**THE ROTARY CLUB OF BARBADOS WELCOMES ALL
VISITING ROTARIANS AND GUESTS TO THIS WEEKLY
MEETING**

Today your Greeters are:

April 24 – PP Vic Fernandez and Rtn. Neal Griffith

**Today, there will be a Fellowship Meeting with a
Classification presentation by Tracey Knight-Lloyd.
Her Classification is Business Services - Marketing**



**Last week was a Fellowship Meeting. President Ron asked
that a moments silence be observed on behalf of Audley
Walker, Honorary Council for Barbados in Trinidad &
Tobago; the brother of Rotarian David “Pop” Walker.**

**The main feature was an address by Guest Speaker Mr.
Rohan Ford, who spoke on “The Benefits of Electric
Vehicles.”**



Rohan was introduced by his Rotarian father Robin, who
stated among other things, that Rohan is the Business Manager
for Megapower. Rohan is described as an ambitious 26 years
old. He holds three tertiary level degrees which includes an
Associate Degree in Computer Science, a BSc. in Management
Studies, and a Postgraduate diploma in Natural Resource and
Environmental Management- Climate Change.



**Following is a Summary of the Presentation and a sample
of the questions asked.**

• **The dream of 100% electric vehicles** - Barbados struggles
with a heavy oil import bill of which most goes towards
electricity generation and transportation and Megapower Ltd.
has vision for Barbados to transition to 100% electric
transportation powered by renewable energy sources.

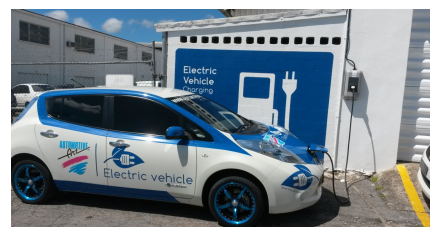
Additionally in the face of climate change and growing
concerns for the environment the transition to cleaner
methods of energy production and transportation helps in the
fight to preserve our island and resources for future
generations.

• **Cost savings vis a vis petrol** - Currently, EVs in Barbados draw
on average 3Kw per hour at 16amps.; at Barbados Light and
Power Company Ltd.'s current rates, BDS\$1.86 per hour plus
VAT. The Nissan Leaf cost \$0.11-\$0.13C per km travelled
versus \$0.30-\$0.35 for a gas powered car. The Nissan Leaf
includes regenerative breaking technology and the overall
service costs for the life of the vehicle are expected to be lower
than combustion engine vehicles. We estimate that the running
cost (fuel and servicing) of the vehicle are about a third of a
similar sized gas/diesel powered vehicle.

• **Range of vehicle** - The Nissan LEAF Mark I (2012/13) model
(currently sold on the island) can get between 100-160 km
range per full charge. The Nissan LEAF Mark II (2013/14)
model (first one being brought in next month, May 2014) will
have an extended range somewhere in the region of 200km or
more depending on driver behaviour.

• **Battery life** - Each battery pack has 192 cells in 48 modules
which can be individually replaced if required. This means you
may not have switch out the whole battery rather just a section
of it. These batteries are stated as being 99% recyclable. When
the car is turned off it loses 1% of charge per week. So start
stop work will not affect the battery range.

A very similar battery technology is used in the Toyota Prius
and those batteries have been shown to outlast the useful life
of the car. There is actually and after market marketplace for
used batteries in supporting the Renewable Energy Industry
(for storage).



Meeting Details

Thursday, April 17, 2014

**Sergeant-At-Arms: President Elect – W Alex
McDonald**

- **Attendance - 51%**
- **Raffle - \$88.00**

Time taken to charge – Dead battery & Cost of charging

The time it takes to charge depends on the type of charge method used. Type 1: 10 amp charging comes standard with the LEAF and can be plugged into any existing 220V socket (est charge time from 0-full = 7-8 hrs). Type 2: 16 amp charging is available with one of our Rolec charging stations (est charge time from 0-full = 5-6 hrs). Type 3: 32 amp charging is also an option using the same Rolec charging stations (est charge time from 0-full = 3-4 hrs). What is important to note that it is unlikely your EV would ever be on complete zero and require the full charge time. Also even in cases where the EV is very low a 30 min to 1 hour charge should be enough to get you from point A to point B given the size of the island. The Nissan LEAFs are very efficient and use very little battery power when stationary even when the EV is turned on.

Nissan vehicles - Of all the electric vehicles sold to date more the half of them are the Nissan LEAF. This lends a certain amount of credibility and acceptance of this particular EV. It also means that parts are more readily accessible and mechanics and trainers to diagnose and fix problems are more familiar with this vehicle model. Megapower Ltd. had a training course last month (March 2014) for 10 Barbadian mechanics to be certified in servicing and maintaining EVs with a focus on the Nissan LEAF. These vehicles require a service once annually or every 19000 km travelling which ever happens sooner; compared to regular gas or diesel vehicles which service every 7000km or approximately three times per year.

We encourage **Capital cost of electric vehicles re standard version.**

The Nissan LEAF Mark I 2012/13 model costs BDS\$78,000 on the road (this includes first year registration and road tax). The Nissan LEAF Mark II 2013/14 model costs BDS\$ 98,000 - \$125,000 on the road (this includes first year registration and road tax). The variation in price depends on what add-ons the customer desires such as black leather interior, more or less electronics, etc.

1. Freddie - PV units on roofs re recharging – internal 12v batteries to run a/c etc –

The Nissan LEAF has an option for a solar spoiler which trickle charges the 12v battery used to power the internal electronics, such as the radio, bluetooth, and a/c . **Figure 6 Figure 6 Nissan LEAF solar PV spoiler** It is expected that as the technology advances this option can be built into the roof, doors and even windows of the vehicle providing more charging options for the vehicle.

2. Elvin - running out of solar power

The issue of running out of power while out and about is a valid concern. While we recommend that drivers top up their EVs nightly so when they go out for the day they have a full charge we have acknowledged that based on driving habits or forgetting to charge there will be cases when out that EV drivers will need to charge.

The solution is a island wide charging network at business places, restaurants and delis, supermarkets, tourists attractions, public spaces, malls, marking lots, etc. At the moment there are 20 charging stations on the island with new ones popping up each week. Recent and soon to be sites include (Little Good Harbour/Fish Pot, Supercentre Warrens, The Coffee Bean) Please visit <http://www.recargo.com/search> for a list of some of the available charging stations.

3. Andrew - cost of setting up solar car port

In keeping with the idea of zero emission transportation it is important that the power for the EVs come from renewable energy sources. At the moment Megapower has installed enough solar PV to offset the usage of 50 Nissan LEAFs per day.

For customers interested in setting up their own solar carports the estimate price is BDS\$ 7,500 per Kw. **This price is subject to a site visit since the design may change based on customer wants and needs **

4. Diana- financing and insurance for vehicles

Megapower Ltd. does not do internal financing for vehicle sales. However most of the island's financial institutions are aware of electric vehicles and offer financing for their clients. Known financing and insurance agencies: Consolidated Finance; Signia; CGI; Trident and ICBL. For more information please contact:

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[facebook.com/megapower365](https://www.facebook.com/megapower365)



The Vote of Thanks was delivered by Rotarian Nicholle

Upcoming Events

April 22 – 26 - District Conference - Martinique.
Please be reminded that the Registration Fee is
now **USD\$400.00**.

May 10 – Fellowship Event

May 29 – Guest Speaker – Peter Boos

Greeters

May 01 – May Day Holiday

May 08 - Rtn Kim Tudor and Director Lisa Cummins

May 15 – Past President Lionel and Robin Ford

APRIL - Magazine Month



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Announcements

Wedding Anniversaries - Congratulations!

PDG Tony & Helene Watkins

May 07

Birthdays - Rotarians

Dwight Sutherland

April 25

Director Shawn Franklin

May 05

Past President William Tomlin

May 05

Joel McCarthy

May 08

Winston Warren

May 08

Birthdays - Partners in Service

Juliette Sutherland - Dwight

April 24

Helene Watkins – PDG Tony

April 30

Grace Durant – PP Orville

May 01

Maherredine Baazaoui – Nicholle

May 02

Andy Knight – Mitra

May 04

Join Date Anniversaries

Donald Austin

April 24, 2003

President Ron Davis

April 24, 2003

Dr. Adrian Sealy

April 30, 1992

Peter Williams

May 05, 2005

Past President Dr. Grenville W. Phillips

May 06, 1976

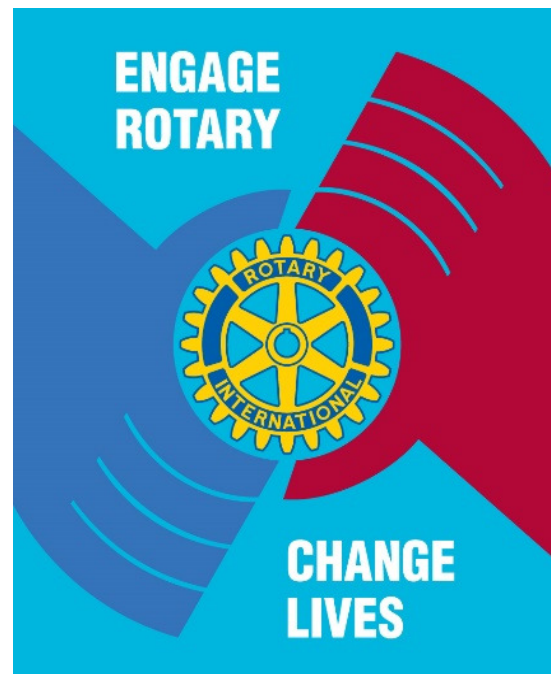
Past President Anthony Reece

May 07, 1998



President Elect Alex and District Governor Elect Elwin (left)

District Governor Herve Honoré introducing District Governor Elect Elwin Atmodimedjo and his partner Marie (right)



ROTARY GRACE

O Lord and giver of all things good
We thank Thee for our daily food May
Rotary friends and Rotary ways Help
us to serve Thee all our days.

R.I. Theme 2013-2014

Bulletin Editor
Michael Wilson Browne