

# "Power Contingency Planning for Household Consumers"

#### **Eduardo B. Fernandez**

Supervising Science Research Specialist

7<sup>th</sup> E-POWER MO – Empowering Filipinos through Informed Energy Plans and Policies
09 October 2018 | Grand Xing Imperial Hotel, Iloilo City

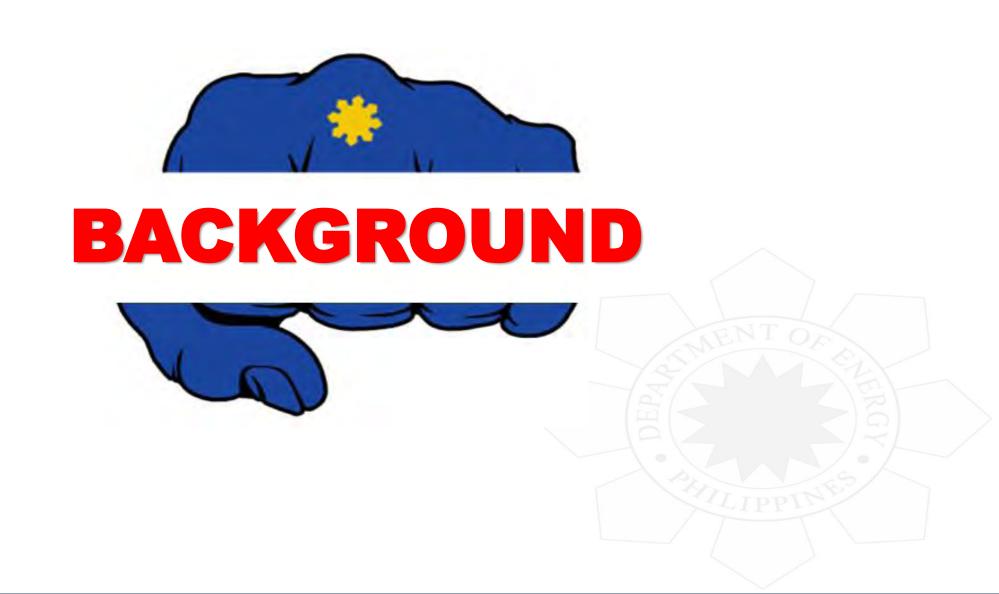
## Power Contingency Planning for Household Consumers







- What is E-Power Mo?
- Current Initiatives and Strategies
- Enjoining Community Safety Protocols
- Disaster Risk Reduction and Community Security









## Losses and Damages Caused by Typhoon Frank













5 28

\$16.41M

\$10.07 M

\$ 3.7M







#### [REPUBLIC ACT No. 11039]

AN ACT INSTITUTIONALIZING THE ELECTRIC COOPERATIVES EMERGENCY AND RESILIENCY FUND AND APPROPRIATING FUNDS THEREFOR

# Duterte signs law on electric cooperatives emergency fund

Published July 3, 2018 6:31pm

President Rodrigo Duterte has signed into law a measure providing support to electric cooperatives adversely affected by calamities.

Approved on June 29, Republic Act 11039 mandates the creation of an Electric Cooperatives Emergency and Resiliency Fund (ECERF) to be managed and administered by the National Electrification Administration (NEA).

An initial fund of P750 million shall be taken from the National Disaster Risk Reduction and Management Fund, and then be released to the NEA Quick Response Fund for proper disbursements to qualified electric cooperatives.

"In case of a deficiency of the fund, the NEA shall seek ... allocation of a supplementary budget from the NDRRM Fund, subject to approval by the President of the Republic of the Philippines," the law stated.



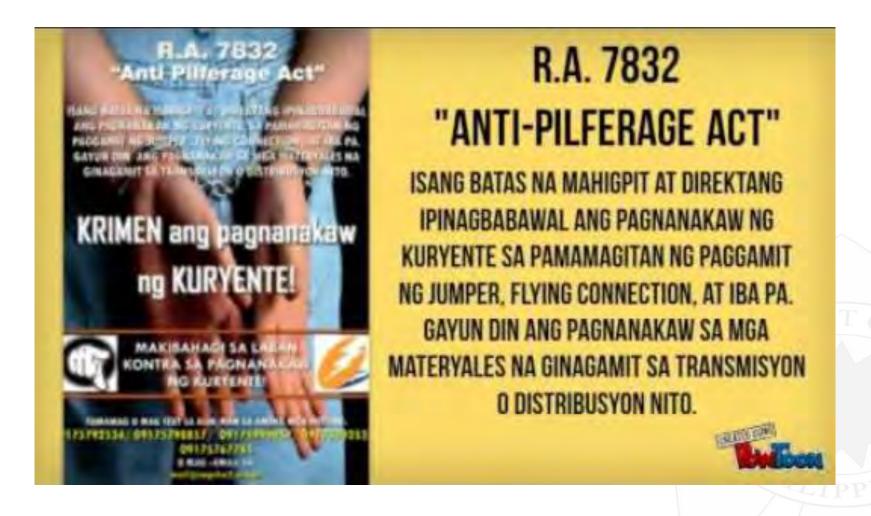
ADOPTION OF ENERGY RESILIENCY IN THE PLANNING AND PROGRAMMING OF THE ENERGY SECTOR TO MITIGATE POTENTIAL IMPACTS OF DISASTERS

# DOE INSTITUTIONALIZES ENERGY RESILIENCY POLICY

MANILA, Philippines — Energy Secretary Alfonso Cusi has institutionalized the adoption of a policy on energy resiliency to secure energy-related facilities as the country continues to reel from a number of natural calamities year in and out.

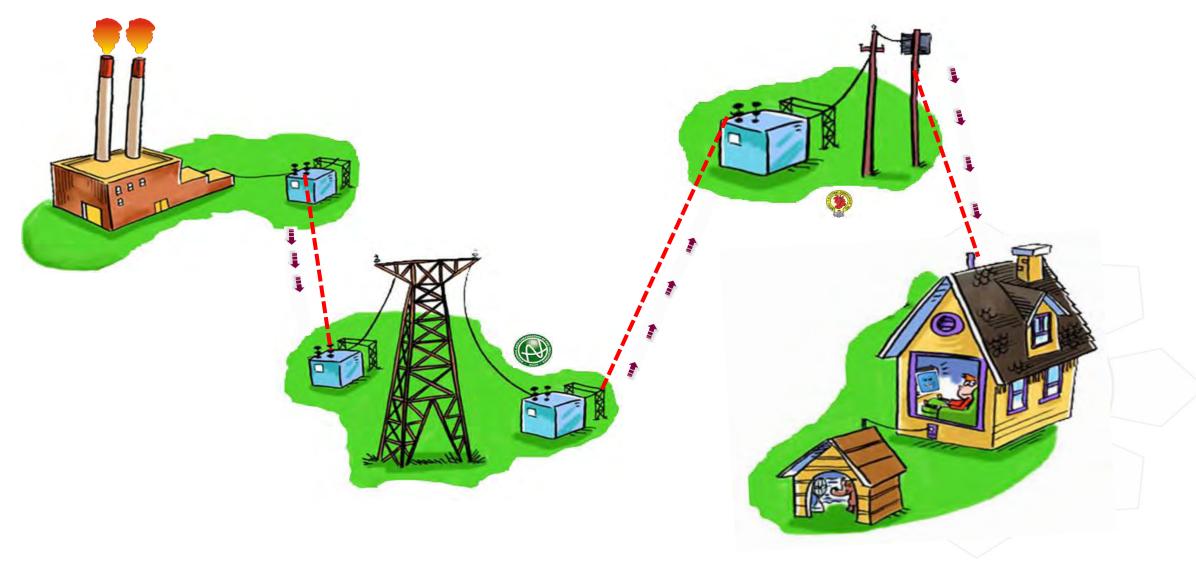
The policy "Adoption of Energy Resiliency in the Planning and Programming of the Energy Sector to Mitigate Potential Impacts of Disasters" would aid industry partners to plan and address potential impacts of disasters since the Philippines is one of the most vulnerable countries to disasters.

#### **ANTI-PILFERAGE ACT**





# **Power Demand and Supply Chain**















Talaka kda weekend brownout nlg di ya s pavia sa iban nga lugar 5 seconds lg ang brownout dri ya 8 hrs gd!! Kesyu guba poste, kesyu maintainance.. 🙄 🙄 🙄

Hay naku mainit naman ini... Dugay pa gd mag siga...

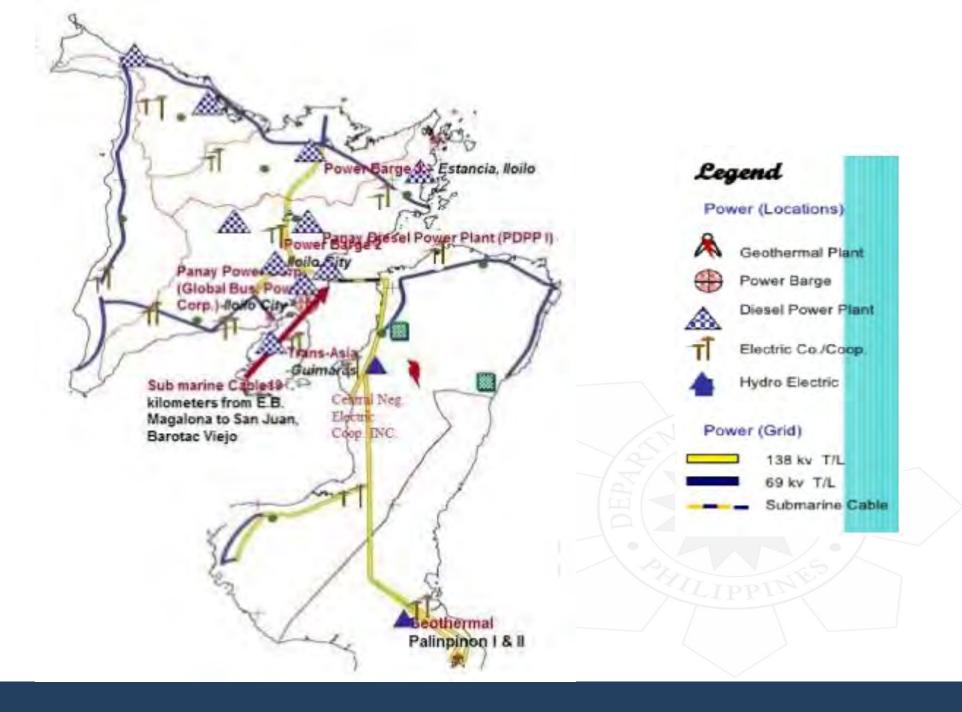
What ever your schedule time do it seriously. Sang nagligad nag anonsyo kamo 8:00am gin brown out nyo six o clock am. Hoy mga talahoron be in your words.



walang pagbabago isli nyo lang na bi tingub .



PECO
ILECO I
ILECO II
IELCO III
CAPELCO
GUIMELCO
AKELCO
ANTECO



POWER PLANT FACILITY NAME	CAPACITY (MW)	LOCATION MUNICIPALITY/ PROVINCE
COAL		
PEDC Coal U1	<i>83.7</i>	lloilo City, lloilo
PEDC Coal U2	<i>83.7</i>	
PEDC Coal U3	<i>150</i>	
PCPC	<i>135</i>	Concepcion, Iloilo
DIESEL		
AVON-NABAS	6.4	Nabas, Aklan
AVON-NEW		
WASHINGTON	4.2	New Washington, Aklan
PANAY DPP I	15	Dingle, Iloilo
PANAY DPP III	74	Dingle, Iloilo
PB 101	18	lloilo
PB 102	24	Obrero, Iloilo
PB 103	0	Estancia, Iloilo
GAS TURBINE		
GEOTHERMAL		

Natural Gas, Hydro, Mini Hydroelectric Plants, Micro Hydroelectric Plants, Biomass

POWER PLANT FACILITY NAME	CAPACITY (MW)	LOCATION MUNICIPALITY/ PROVINCE
HYDROELECTRIC		
Small Hydroelectric Plants		
VILLASIGA HEPP	8	Bugasong, Antique
Mini Hydroelectric Plants		
Micro Hydroelectric		
Plants		
BIOMASS		
SOLAR		
COSMO SOLAR	5	Miag-ao, Iloilo
WIND		NIT
NABAS WIND Ph1	36	Nabas, Aklan
TAREC	54	San Lorenzo, Guimaras
DIESEL (embedded)		
ENERVANTAGE DPP	8	Panit-an, Capiz
	-1.7	San Miguel, Jordan,
GUIMARAS POWER	3	Guimaras
PANAY POWER CORP.	78.8	Ingore, Lapaz, Iloilo City









- uprating of lines
- clearing of distribution lines
- installation of mid poles
- massive clearing & correction of lines
- replacement of rotten poles
- uprating & upgrading of primary distribution lines
- clearing of lines requested by "Hatchery"
- uprating/upgrading of primary lines
- massive clearing of 3-phase backbone lines

- correction of distribution lines & replacement poles & dilapidated lines
- massive clearing & correction of lines
- relocation of poles affected by DPWH road widening
- emergency interruption due to retapping of lines of Substation
- massive clearing & correction of distribution lines, replacement of poles & dilapidated lines
- clearing of lines requested by "Hatchery"
- Emergency shutdown of the 69kV Sta.Barbara Miag-ao line by NGCP
- massive clearing of 3-phase backbone lines, correction of distribution lines & replacement of rotten
   & dilapidated poles

#### ILOILO III ELECTRIC COOPERATIVE, INC.

Brgy. Preciosa, Sara, Ilallo

(D33)

392-0388 392-0207. 392-0034 392-0550

Area Office 362-0009 Area Diffice 397-0637

Email Address: lieco3@gmail.com

Website: www.ileco3.com

#### POWER ADVISORY

Pahibalo sa mga katapo-konsumidores nga may patigayunon nga scheduled power Interruption ang ILECO III sa CARLES (Gigantes Island only) agud mag-hiwat sang pole relocation, clearing of lines kag pipe installation sa primary lines.

Ang schedule amo ang masunod:

DATE & TIME	AFFECTED AREA/S
AGOSTO 4, 2018 (SABADO) 8:00 AM - 5:00 PM	Brgy. Asluman
	<ul> <li>Brgy, Gabi</li> </ul>
	<ul> <li>Brgy, Granada</li> </ul>
	<ul> <li>Brgy, Lantangan</li> </ul>

Gina-abisuhan gid ang mga resort owners kag mga turista nga magabisita sa nasambit nga lugar nga mag-preparar.

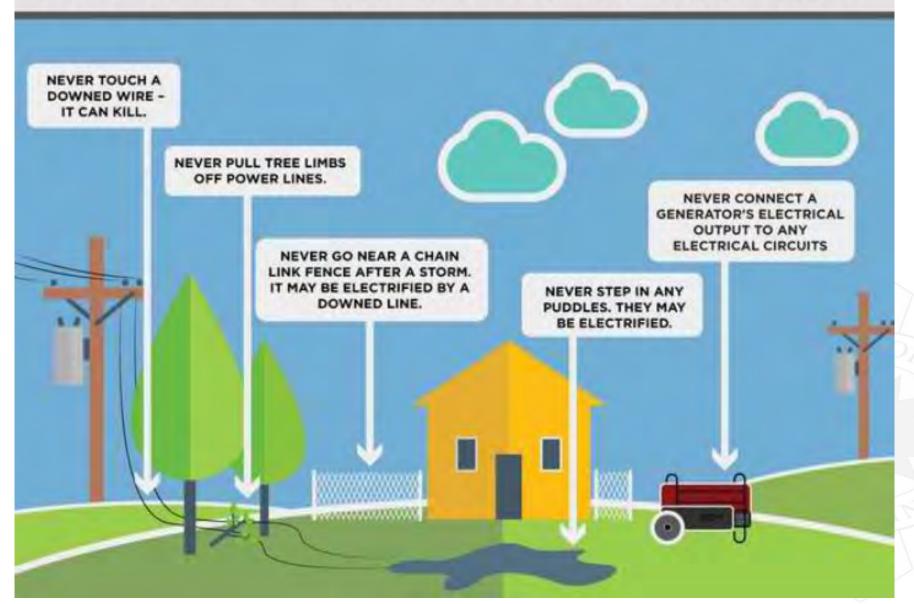
#### POWER ADVISORY

Pahibalo sa mga katapo-konsumidores sang ILECO III sa nagluntad nga mga Power Interruption sa NATIVIDAD AREA COVERAGE sang JULY 30, 2018:

Affected Area/s	Time of Complaint	Time Acted	Cause of Interruption	Action Taken
Poblacion, Anilao	5:00 AM	6:00 AM	Damaged fuse link due to animal contact	Replaced fuse link
Poscolon, San Rafael	8:00 AM	9:00 AM	Current surge due to lightning	Replaced fuse link
S. Cabas-an, San Andres, San Rafael	12:00 PM	1:03 PM	Current surge due to lightning	Replaced fuse link
S.Matingkong,Juanico, Banate	4:18 PM	5:50 PM	Damaged fuse link	Replaced fuse link



### SAFETY TIPS: AFTER THE STORM



## **Tree Maintenance Cutting**



## Stubborn landowners delay NGCP Work

by Riza Olchondra, 20 August 2015 from Philippine Daily Inquirer

Transmission system operator National Grid Corp. of the Philippines (NGCP) said problems with uncooperative landowners have hampered the repair of vital lines, similar to a case in the Iloilo province.

Linemen were only able to fully restore power transmission services in 15 municipalities in Iloilo and Antique past 3 a.m. last Aug. 9 after dealing with an uncooperative landowner, the firm said.

The repair of the entire line, however, could have been completed earlier had a landowner immediately allowed the inspection and repair of a toppled structure within his property.

# PRIVATE No public right of way



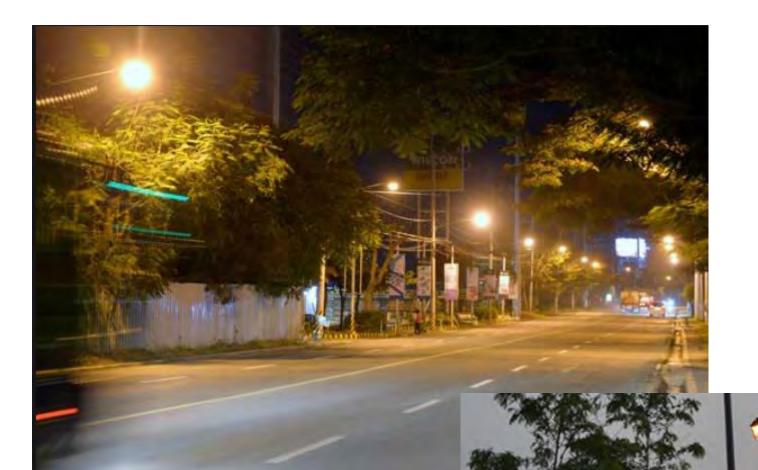
# NGCP IS SEEKING YOUR HELP IN OUR CAMPAIGN AGAINST PILFERAGE & THEFT OF TOWER PARTS.

#### **PILFERAGE**

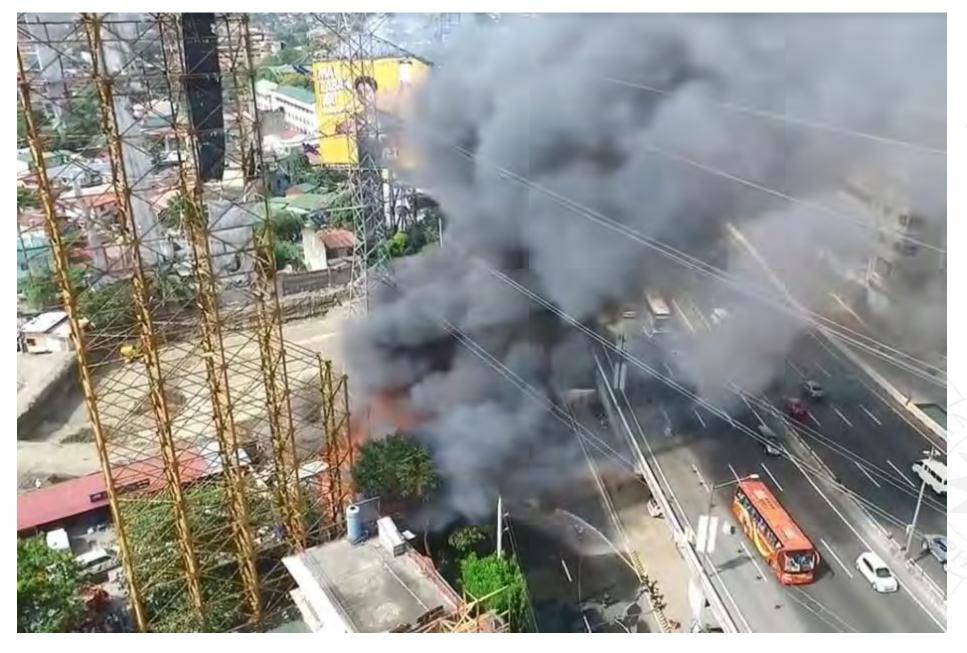
SIR, naka-"FLYING CONNECTION" po kayo, ilegal po yan.

CLICK! to learn more about illegal connections...





Street lights always on, permanently off, blinking needs replacement



NGCP tower collapses as fire engulfs houses in Alabang

## **Bombing of Transmission Line Towers**







#### - Northern Negros-Electric Cooperative, Inc.



Never fly a kite near any power lines and electric poles.

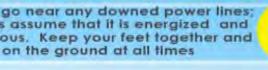


Avoid going under the power lines while carrying long logs of wood or anything that will come near to it.



It is illegal to plant trees near or below lines and electric poles.

Do not go near any downed power lines; always assume that it is energized and dangerous. Keep your feet together and on the ground at all times



Never climb any electric poles and transmission towers.



Report downed power lines immediately Contact the nearest NONECO office which is available 24 hours a day. 7 days a week.



# Me Sate

Our line safety reminders and tips provide the necessary awareness to avoid possible accidents that may occur in regards with our power lines.

For your complaints, requests and concerns... i-text si GM DAN!!!

Text your Name/ Account No./Address/Concern, Request and Complaint

and send to

#### **Area Office Hotlines:**

E.B. Magalona Area Office - 0949-507-6440

Cadiz Area Office

Victorias Area Office - 399-2781 (PLDT)

- 0910-923-3862

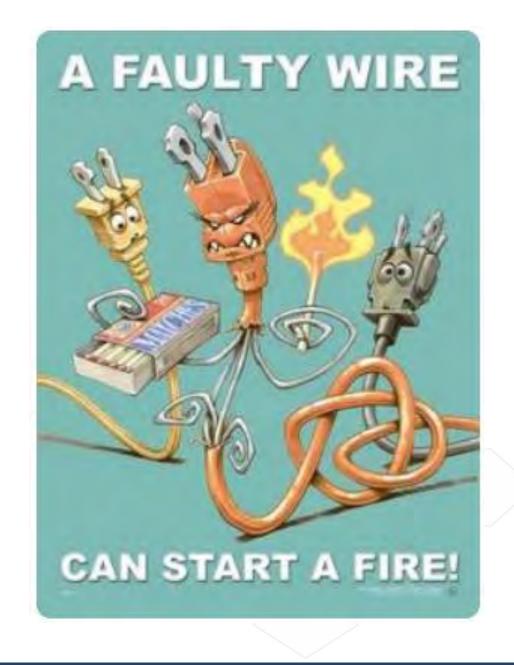
Sagay Area Office - 213-5467

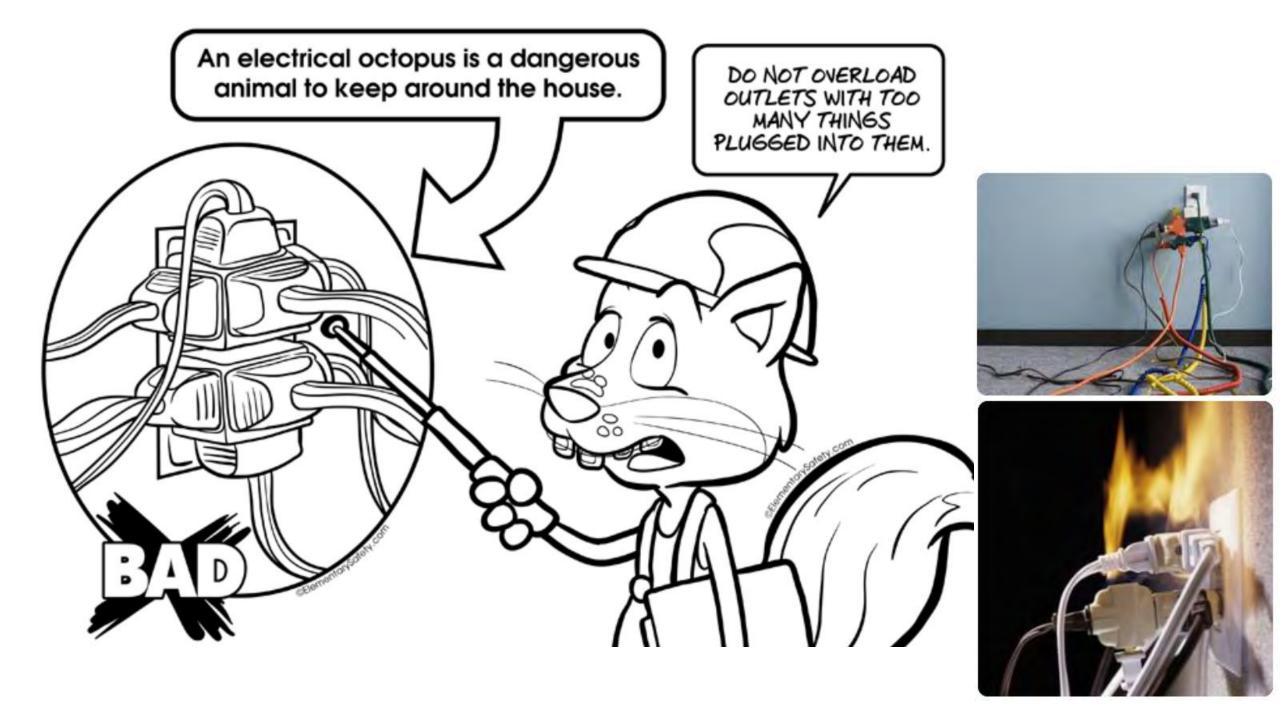
Escalante Area Office - 0917-872-9032

- 717-7822 (Globe) San Carlos Area Office - 729-4394 (Globe)

312-5687 (SACATEL)











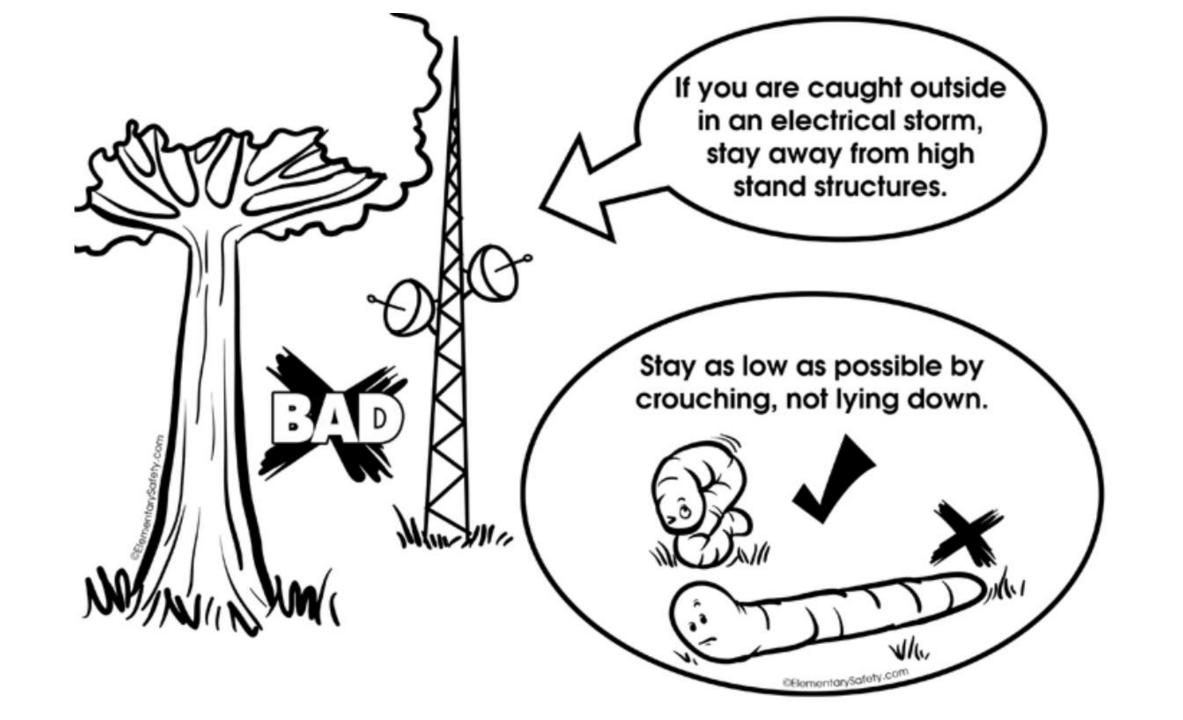
You may know that lightning is about to strike close by if you feel your skin tingle or your hair standing on end.



©ElementarySafety com



Crouch down on the balls of your feet, wrap your arms around your knees and put your head down.







## SAFETY EQUIPMENT



Emergency safety shower.

Keep this area clear.

# Just Say ... To Electrical Hazards Before you turn it on,



Are cords running near heat or water sources?

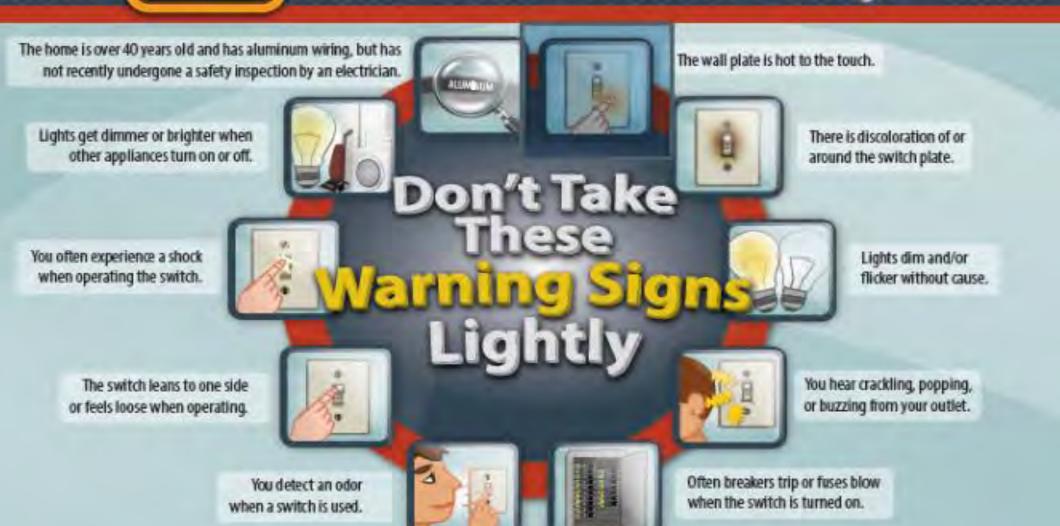
Are cords twisted or tangled?

Do I see sparks or smoke?

Are my hands wet?

Am I wearing any metal jewelry?







STOP all activities.

Seek shelter in a substantial building or hard-topped vehicle.

Wait 30 minutes after the storm to resume activities.

www.lightningsafety.noaa.gov



#### DID YOU KNOW?

A significant lightning threat extends outward from the base of a thunderstorm cloud 6 to 10 miles. Just because a thunderstorm has moved out of your area does not mean the lightning threat is over.



30 min

Stop ALL outdoor activities and wait thirty minutes after the last clap of thunder before resuming activities.

If you see lightning or hear thunder, seek shelter inside immediately. Seeking shelter beneath sheds or under baseball dugouts IS NOT safe. Also, DO NOT stand underneath tall objects, like trees. No place outside is safe from a thunderstorm. Strong sturdy buildings with plumbing and wiring offer the most protection. Office buildings, schools, and homes are also great safe places. Remember to stay away from windows and doors, and do not use anything that conducts electricity, including corded phones and water faucets. A hard-topped vehicle is an option if a building is not available, as long as you avoid making contact with the metal inside the vehicle.



# THANK YOU!



(632) 840-1773



2018eduke@gmail.com



www.doe.gov.ph



//doe.gov.ph



@doe ph

















# THANK YOU!



(632) 840-1773



2018eduke@gmail.com



www.doe.gov.ph



//doe.gov.ph



Powering the Nation

@doe\_ph

