

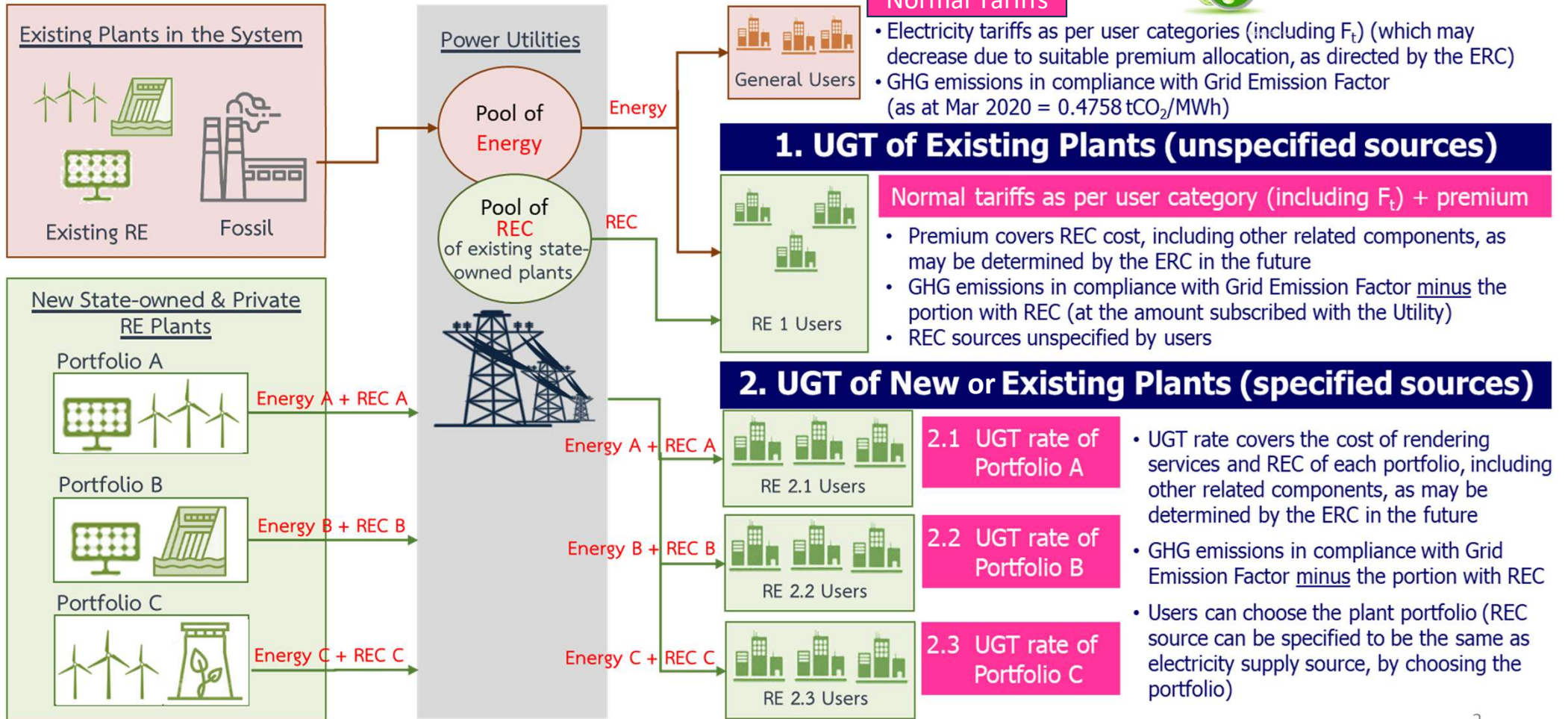
A central graphic showing a hand holding a green plant with a globe of the Earth as its top. Surrounding the plant are several circular icons connected by lines, representing different energy sources: a sun, wind turbines, an oil pumpjack, solar panels, a corn cob, a recycling symbol, a leaf with a water drop, and a gas flame. The background is a blurred green field with sunlight filtering through the leaves.

# Utility Green Tariff (UGT)

*Office of the Energy Regulatory Commission-Thailand*



## Utility Green Tariffs (UGT)



## UGT Determination Criteria (set by ERC)

# UGT Determination Criteria

(Proclaimed in the Royal Gazette on 8 January 2024)



**UGT 1** Users do not specify the source of electricity at subscription. (Names of the power plants are not included in the ESA.)

UGT1 = Normal electricity bill including  $F_t$  + **Premium**

$$\text{Premium (P)} = P_{\text{REC}} + P_A$$

Where:

$P_{\text{REC}}$  = Market Price of REC  
 $P_A$  = Management fee incl. return for each utility regarding REC

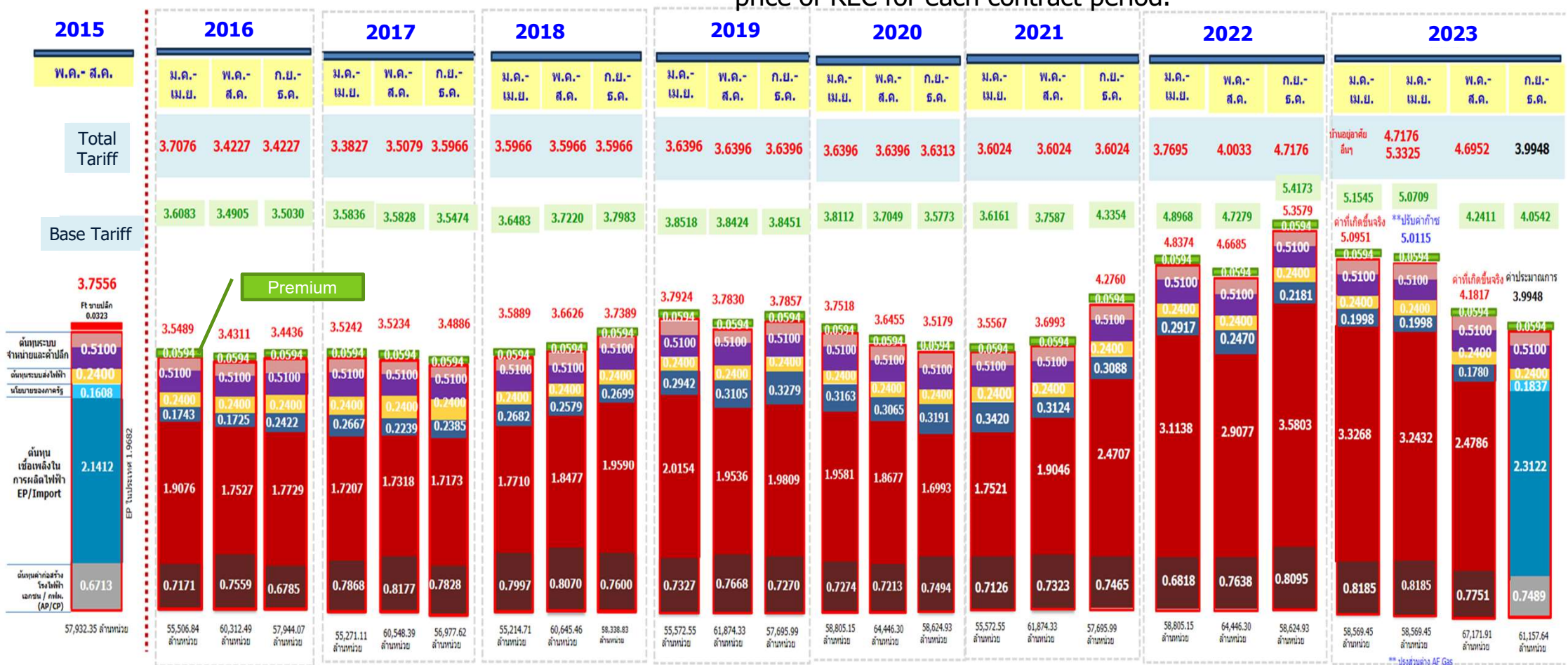
- ✓ **Users subscribes in blocks, sizes of which is as specified by the energy provider in the Electricity Supply Agreement: ESA)**
- ✓ **Subscription conditions and period is as specified by the energy provider in the ESA**
- ✓ **Subscribers cannot choose the RE sources. (The sources will not be specified in the ESA.) The energy provider will provide REC on top of the normal energy service. The RE sources, names of power plants, etc. will be specified in the REC, which will be known to the users after they have used the energy.**
- ✓ **The Premium is regulated revenue and will be considered based on true and efficient costs of service that promotes the use of RE**

# UGT1 Ratemaking Principles

**UGT 1 = Normal Tariff + Premium (P)**  
 where P = market price of REC + Management Fee



- Normal tariff structure with the Premium as an addition
- Price varies with normal tariff, which reflects fossil fuel prices
- Short-term contract; the Premium will be revised to reflect market price of REC for each contract period.



หมายเหตุ : ส่วนประกอบโครงสร้างต้นทุนค่าไฟฟ้ามีหน่วยเป็น บาท/หน่วย

\*\*ข้อมูลจาก AF Gas -4,897.26 ล้านบาท

**UGT 2** Users specify the sources of electricity at subscription (Names of the power plants are included in the ESA.)



**UGT2  
Determination  
Formula**

UGT2 Wholesale	= Fixed Rate Wholesale ( $F_W$ ) + Variable Rate $V_W$
$F_W$	= $G + T + A_W$
$V_W$	= $PE_W + AF_W$
UGT2 Retail	= Fixed Rate Retail ( $F_R$ ) + Variable Rate $V_R$
$F_R$	= $F_W (1+d) + D + A_R$
$V_R$	= $V_W (1+d) + PE_R + AF_R$

**UGT2 Components Explained**

Variable	G			T	D	A		PE		AF	
	(1) Energy Purchase	(2) Power System Service				$A_W$	$A_R$	$PE_W$	$PE_R$	$AF_W$	$AF_R$
		(2.1) Power	(2.2) Energy								
<b>Explanation</b>	Charge for the cost of purchasing energy from the portfolio that the user specify (Including energy loss)	Charge for the system's Dependable Capacity	Charge for brown energy that the system has to supply (with REC) in the case that the user uses more energy than the designated portfolio's production	Transmission Network Charge	Distribution Network Charge	Administrative Charge at the wholesale and retail levels (Costs concerning REC, management platforms, etc.)	Policy Expenditures at wholesale and retail levels (Power Development Contribution, Adder and FITa (Legacy), Other policy expenses)	Adjustment Factor that is the discrepancies between the actual production and consumption, and the assumptions used for determining G values (Adjust G every 4 months)			

Adjusted every 4 months by AF ( $F_t$  cycle)

Reviewed according to regulatory period

Adjusted every 4 months ( $F_t$  cycle)

# UGT2 Ratemaking Principles

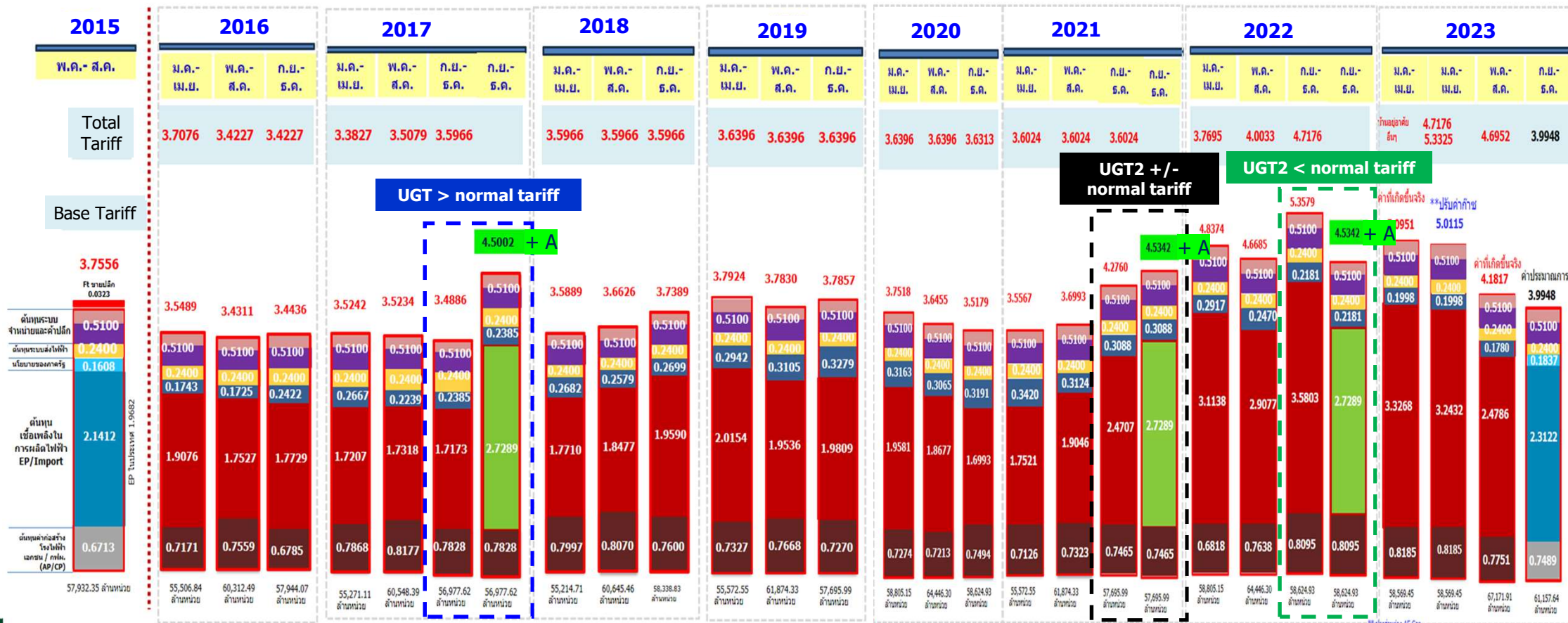


## UGT2 = Fixed Rate + Variable Rate

Where; Fix Rate = G1 + G2 + T + D + R + A  
Variable Rate = PE + AF



- New rate structure that does not differ based on time of use; long-term contract
- The **RED** part, (EGAT's fuel costs & private producers' energy payment,) is replaced by the **GREEN** part, (energy purchased from the user's RE portfolio.)
- Other parts remains equals to what other users bear.



หมายเหตุ : ส่วนประกอบโครงสร้างต้นทุนค่าไฟฟ้ามีหน่วยเป็น บาท/หน่วย

\*ปรับค่าก๊าซ -4,897.26 บาท/หน่วย

**Reflect Costs,  
Support New Users' Requirements,  
Protect Power Users' Benefits.**

**Thank you**

