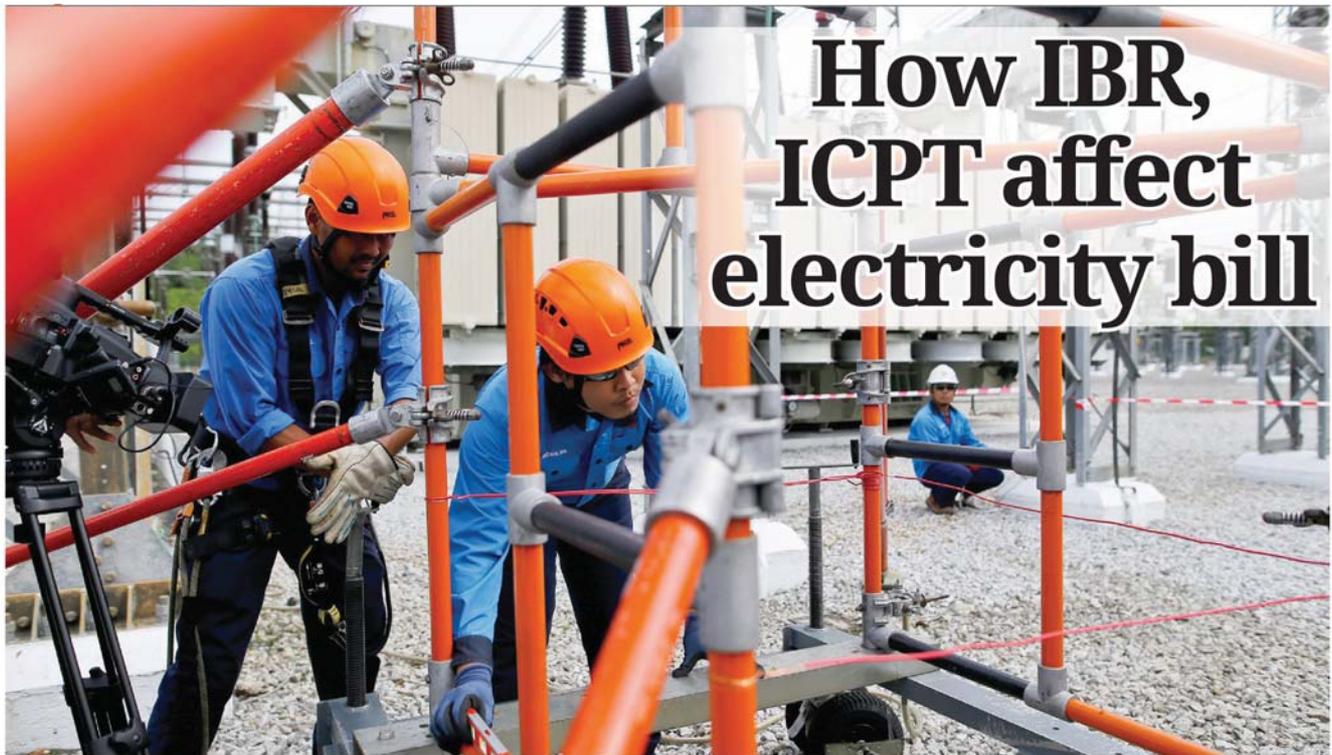
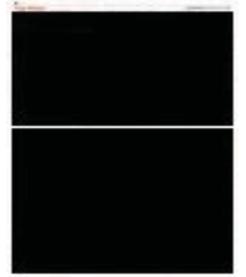


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# How IBR, ICPT affect electricity bill

TNB staff at work on-site. — Picture by Azneal Ishak

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KUALA LUMPUR — Incentive-Based Regulation (IBR) and Imbalance Cost Pass-Through (ICPT) are two acronyms that come to mind every six months when the review on the latter is announced.

The most recent was by the Energy Commission (EC) with regards to ICPT surcharge, the first ever imposed in the peninsula since IBR was implemented in 2014. Thankfully, the surcharge applies only to commercial and industrial electricity users.

Now, what are the two acronyms and how does it affect my electricity bill? These are the questions that most of us would likely be asking.

For the uninitiated, we're sharing what we have gathered based on websites of the EC, Malaysia's electricity regulator; Tenaga Nasional Berhad (TNB), the national electric utility company; and news portals including [www.energywatch.com.my](http://www.energywatch.com.my).

We start with IBR. It was implemented by the EC in 2014 as part of the reform of the Malaysian Electricity Supply Industry (MESI).

Among others, IBR was introduced to enable transparency in regulating TNB, as well as to promote efficiency for the industry.

IBR involves "unbundling" of the accounts of entities within TNB to establish a transparent and accountable process.

Single Buyer, formerly a department in TNB, was placed in the macro structure of generation, transmission and distribution (and retail).

Single Buyer, which buys electricity from TNB and independent power producers (IPP) on the basis of least-cost dispatch schedule, was carved out of TNB to prevent potential conflict of interest and perceived favouritism. Obviously, it gives priority to generators with the cheapest price.

Thus, under the IBR framework, there are now five entities of TNB. The five are Generation, Transmission, Single Buyer,



Grid System Operator and Distribution Network, plus Customer Service. According to sources, similar to Single Buyer, Grid System Operator has also been carved out of TNB. Both report to the EC.

With the individual regulatory accounts, the EC gets to break up components in the tariff for more transparent electricity rates that are derived from a "bundled tariff".

The IBR also features the ICPT mechanism that allows adjustments to be made in consumers' electricity bills every six months.

ICPT kicked off with its first regulatory period (RP) starting from January 2015 to December 2017. We are now in the second regulatory period (RP2), another three years starting from 2018 to 2020.

Under ICPT's half yearly review, there are varying rates of a rebate or surcharge to reflect changes in prices of fuel for electricity generation. Movements in the prices of imported gas and coal prices, as well as domestic gas in the previous six months will be reflected as surcharge or rebate in the following six months.

Eight cycles of ICPT were announced from the period of March 2015 to December 2018, with the first seven ICPT cycles involving rebates. Rebates of 2.25 sen/kWh were announced in 2015, 1.52 sen/kWh in 2016, 2017 and January to June 2018.

From July to December 2018, a surcharge is imposed.

Many may ask why a surcharge is imposed this time around, and why not

continue with the rebate.

Before getting into that, we need to digest some background information as follows:

Firstly, all consumers are affected by the ICPT mechanism but exemption is given on domestic consumers using less than 300kWh of electricity monthly, equivalent to RM77. In addition, in the recent ICPT revision, domestic users with bills over RM77 do not have to pay surcharge as theirs are financed by Kumpulan Wang Industri Elektrik (KWIE). However, the balance of this fund is fast depleting.

Secondly, under the IBR, the base tariff is fixed for every RP. The base tariff covers all the electricity operations, such as fuel and generation, distribution, transmission, and Single Buyer and Grid System costs. The EC, in its most recent announcement on ICPT, said that for RP2 ending 2020, the base tariff is fixed at RM39.45 sen/kWh.

Thirdly, the IBR provides for six-monthly adjustments due to changes in the power plants fuel costs via the ICPT mechanism.

And fourthly, the peninsula's power generation is highly dependent on fossil fuel with 53 per cent from coal, 42 per cent natural gas, and five per cent hydro together with other forms of renewable energy (RE). Coal is 100 per cent imported, making it susceptible to market volatility. It is imported mainly from four countries, namely Indonesia (63 per cent), Australia (24 per cent), Russia (11 per cent) and

South Africa (two per cent). Meanwhile, gas is sourced from the east coast of the peninsula as well as imported as liquified natural gas.

In essence, electricity costs components have fixed and variable elements with the latter influenced by world demand for coal and gas, fluctuation of the ringgit and gas subsidy rationalisation programme.

The EC in its recent announcement of ICPT stated that coal price has risen by more than 20 per cent to US\$91.66/tonne (RM371.43) against US\$75/tonne (RM303.90) used in the forecast to calculate base tariff.

When converted to the ringgit, the local currency has depreciated to RM4.0409 versus the greenback, which means the price of imported coal in ringgit has soared to more than RM370/tonne from over RM250/tonne in January 2014.

The implementation of gas price subsidy rationalisation has caused gradual increment in the price of gas at the rate of RM1.50/mmbtu every six months. For the past four years, it had increased by a whopping 69 per cent to RM25.70/mmbtu this month from RM15.20/mmbtu in January 2014.

So far, RM6.3 billion in rebate has been passed through to customers, a part of it funded by KWIE. Surely the imposition of a surcharge this time is an indication of depleting KWIE funds. It's time for users to reflect back on energy consumption and practice efficient energy usage. — Bernama