

# Power

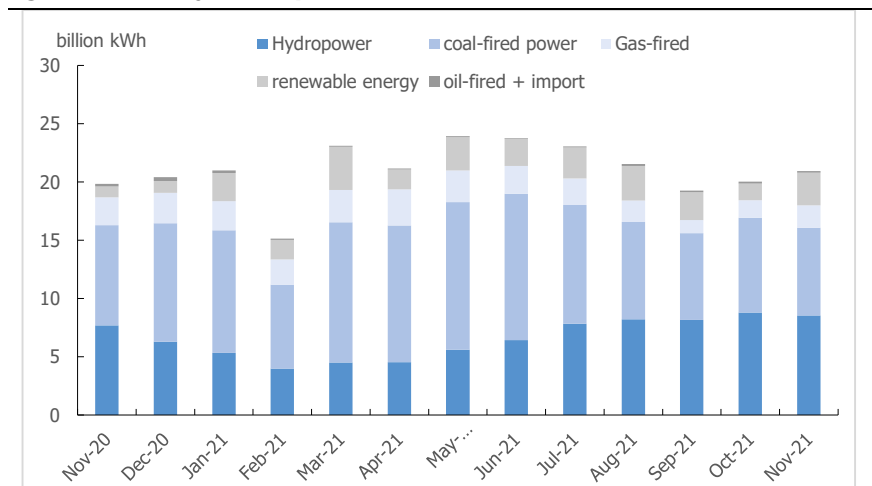
## Non-rated

### November electricity production updates

#### Consumption volume edged up slightly in Nov

- In Nov 2021, electricity production was 20.71bn kWh (+3.9% yoy, +2.1% mom).
- Hydropower output was slightly down 2.9% mom to 8.55bn kWh but increased 11% yoy backed by favorable hydrologic conditions. Renewable energy (solar, wind, biomass) output rose to 2.78bn kWh (+95.8% mom, 199% yoy) thanks to Vietnam's incentives for renewable energy.
- Gas thermal power's output was up 26% mom to 1.92bn kWh but down -19% yoy. Meanwhile, coal-fired power witnessed a significant decrease to 7.54bn kWh (-7% mom, -12.5% yoy).
- Volume of imported coal was down by 6% mom, 46.1% yoy to 2.02mn tonnes.
- The movements of raw material input prices were mixed: as of Nov 30, price of Heavy Fuel Oil (HFO) Singapore, the reference for gas price supplied to domestic thermal plants was around USD9.9/mmBTU (-14.6% mom, +39% yoy), Newcastle coal price sharply surged to USD170/ton (+140% yoy, -9% mom). As of Mar 8, HFO price was USD17.2/mmBTU (+34.7% mom, +76.7% yoy) and Newcastle coal price reached its all-time high at USD435/ton.
- The price of gas supplied to domestic gas thermal plants have positive correlation with HFO Singapore price as it is determined by the following formula: Selling price = Max [46% HSFO price, wellhead price] + transportation & tariffs (including markup).
- However, the prices of domestic dust coal supplied by Vinacomin to coal thermal plants are modified annually by Ministry of Industry and Trade (MOIT) and Ministry of Finance (MOF) at the early of the year. Hence, the coal input price of coal-fired plants is less affected by the volatility of global coal prices.
- Notably, the selling price of power on free-market (FMP) which accounts for 10-20% of total output slightly inched +4.5% yoy to VND736/kWh but dropped 21.2% mom.

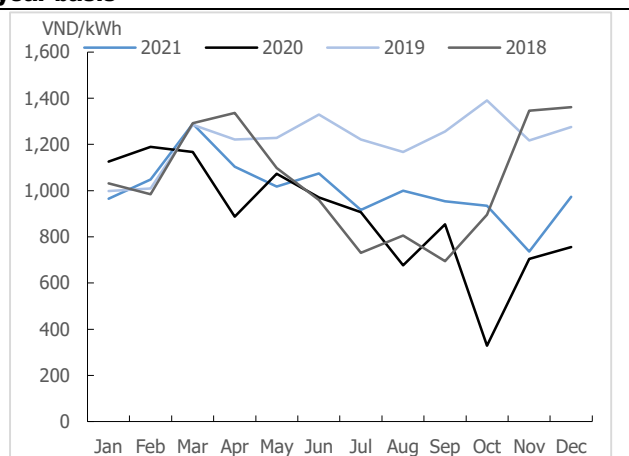
**Figure 1. Electricity consumption increased in November 2021**



Source: EVN, GSO

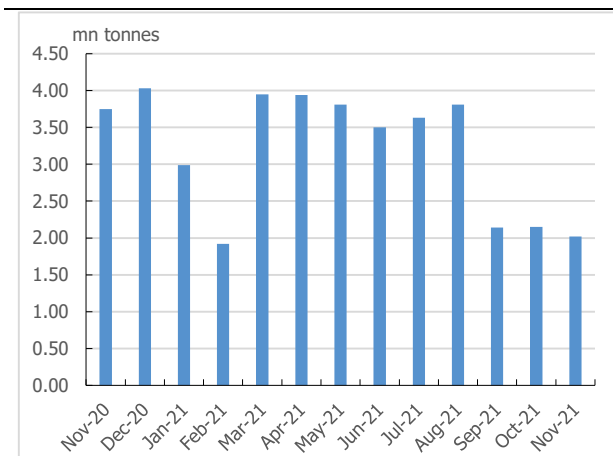
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**Figure 2. FMP price slightly increased over year-on-year basis**



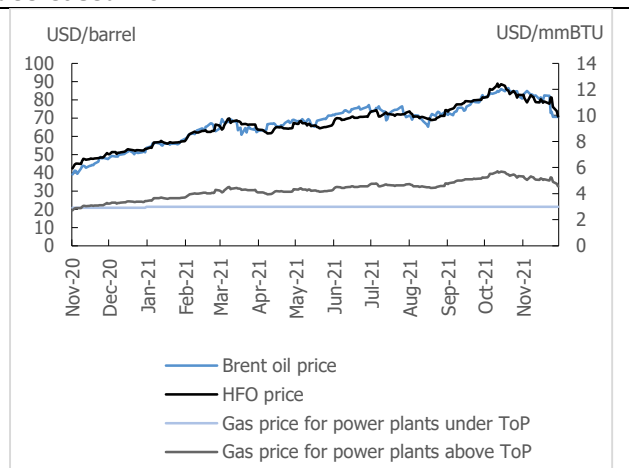
Source: EVNGENCO3

**Figure 3. Coal import decreased yoy**



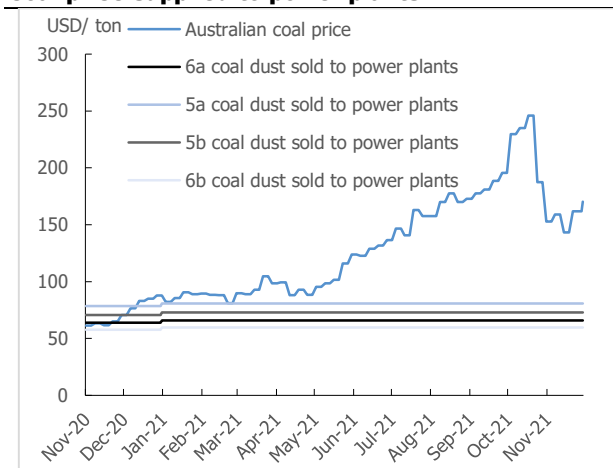
Source: Fiiipro

**Figure 4. HFO price and gas price sold to power plants decreased mom**



Source: Bloomberg, GAS

**Figure 5. Hiking global coal price didn't affect on coal price supplied to power plants**



Source: Bloomberg, ERAV, TKV

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