

**LEVEL OF ACCURACY AT TECHNICAL ANALYSIS INDICATORS
BOLLINGER BANDS AND EXPONENTIAL MOVING AVERAGES IN
DETERMINING SELL AND BUY STOCK SIGNALS**

**(Case Study Of Stocks On The IDXENERGY Index Listed On The Indonesia
Stock Exchange In 2021)**

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ABSTRACT

The aims of this study are: (1) To discover the condition of the bollinger bands and exponential moving average indicators for each stock in the IDXENERGY Index listed on the Indonesia Stock Exchange in 2021. (2) To analyze the determination of the total based on the accuracy of the two stock indicators and also to discover the result's determination of buy/sell signals on shares on the IDXENERGY Index listed on the Indonesia Stock Exchange in 2021. (3) To analyze the accuracy of the bollinger bands dan exponential moving average indicator for each stock in the IDXENERGY Index listed on the Indonesia Stock Exchange in 2021. The resources are taken from secondary data in the form of daily share price movement of each share on the IDXENERGY Index on the Indonesia Stock Exchange in 2021. The population used is the shares on the IDXENERGY Index on the Indonesia Stock Exchange in 2021. This study uses purposive sampling method to collect samples. This study also uses qualitative and descriptive analysis methodology which examine the accuracy of daily stock data on IDXENERGY in 2021. This study also added technical analysis indicators of bollinger bands and exponential moving average to see the correct level of accuracy in determining buy and sell stock signals. Based on the results of the research, it can be seen that: (1) bollinger bands and exponential moving average indicators have fluctuating conditions and different volatility for each timeframe. (2) The results of determining sell/buy signals on shares on the IDXENERGY Index listed on the Indonesia Stock Exchange in 2021 using the bollinger bands indicator get varied decisions at the time of buying and selling and will generate profits (estimated capital gains) (3) Accuracy level bollinger bands indicator gets an average accuracy of 72.45%, while for exponential moving average the average accuracy result is 70.87%, not as high as bollinger bands.

Keywords: technical analysis, bollinger bands, exponential moving average.

TINGKAT AKURASI INDIKATOR ANALISIS TEKNIKAL *BOLLINGER BANDS* DAN *EXPONENTIAL MOVING AVERAGE* DALAM PENENTUAN SINYAL JUAL DAN SINYAL BELI SAHAM

(Studi Kasus Pada Emiten Di Indeks *IDXENERGY* Yang Tercatat Di Bursa Efek Indonesia Tahun 2021)

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ABSTRAK

Penelitian ini bertujuan untuk mengetahui: (1) Kondisi indikator *bollinger bands* dan *exponential moving average* pada masing-masing saham di *IDXENERGY* Index yang terdaftar di Bursa Efek Indonesia tahun 2021. (2) Menganalisis penentuan serta mengetahui hasil penentuan sinyal jual / beli pada saham di Indeks *IDXENERGY* yang terdaftar di Bursa Efek Indonesia pada tahun 2021 dengan menggunakan indikator *bollinger bands* dan *exponential moving average*. (3) Menganalisis tingkat akurasi indikator *bollinger bands* dan *exponential moving average* pada setiap saham di Indeks *IDXENERGY* yang tercatat di Bursa Efek Indonesia tahun 2021. Data yang digunakan adalah data sekunder berupa: Pergerakan harga masing-masing saham harian pada Indeks *IDXENERGY* di Bursa Efek Indonesia tahun 2021. Populasi yang digunakan adalah saham-saham pada Indeks *IDXENERGY* di Bursa Efek Indonesia tahun 2021. Sampel diperoleh melalui metode *purposive sampling*. Metode penelitian yang digunakan adalah penelitian kualitatif dan penelitian analisis deskriptif dengan menguji tingkat akurasi data saham harian pada *IDXENERGY* tahun 2021, juga menambahkan indikator analisis teknikal *bollinger bands* dan *exponential moving average* untuk melihat tingkat akurasi yang benar dalam menentukan sinyal jual beli saham. Berdasarkan hasil penelitian, dapat diketahui bahwa: (1) Indikator *bollinger bands* dan *exponential moving average* memiliki kondisi fluktuatif dan volatilitas yang berbeda tiap *timeframe*-nya. (2) Hasil penentuan sinyal jual/beli pada saham di Indeks *IDXENERGY* yang terdaftar di Bursa Efek Indonesia pada tahun 2021 menggunakan indikator *bollinger bands* mendapatkan keputusan yang bervariasi pada saat pembelian maupun penjualan serta akan menghasilkan keuntungan (*estimated capital gain*). (3) Tingkat akurasi indikator *bollinger bands* mendapatkan rata-rata hasil akurasi sebesar 72,45%, sementara untuk *exponential moving average* rata-rata hasil akurasi sebesar 70,87%, tidak setinggi *bollinger bands*.

Kata kunci: *technical analysis, bollinger bands, exponential moving average.*