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## **АНАЛИЗ РАЗВИТИЯ КРИПТОВАЛЮТ В ЯПОНИИ**

**Аннотация:** В этой статье обсуждены варианты инвестирования и алгоритмы майнинга. Актуальность ферм, добывающих криптовалюты, зависит от ряда факторов. Прогнозы аналитиков, курс Биткоина, других криптовалют и количество алгоритмов хеширования блоков влияют на размер прибыли. Рынок «цифрового золота» отличается нестабильностью — нередко прогноз курса Биткоин или другой монеты оказывается неверным, многие майнеры теряют несколько сотен долларов за день.

Усложнение хеширования блоков приводит к возрастающим затратам на оборудование — инвестиции окупаются за несколько лет. Начинающим майнерам рекомендуется выполнить оценку актуальности и прибыльности фермы перед началом работы с криптовалютой.

*Ключевые слова: инвестирование, майнинг, хеширование, прибыльность, криптовалюта.*

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## **THE ANALYSIS OF DEVELOPMENT OF THE CRYPTOCURRENCY IN JAPAN**

**Annotation:** In this article options of investment and algorithms of mining are discussed. The relevance of the farms mining cryptocurrencies depends on a number of factors. Forecasts of analysts, a rate of Bitcoin, other cryptocurrencies and quantity of algorithms of hashing of blocks influence the amount of profit. The market of "digital gold" differs in instability — quite often the forecast of the course

Bitcoin or other coin is incorrect, many miners lose several hundreds of dollars in a day.

Complication of hashing of blocks leads to the increasing costs of the equipment — investments pay off for several years. The beginning miners are recommended to execute assessment of relevance and profitability of a farm before work with cryptocurrency.[1]

*Keywords: investment, mining, hashing, profitability, cryptocurrency.*

In this article options of investment and algorithms of mining in Japan are discussed. The relevance of the farms mining cryptocurrencies depends on a number of factors. Forecasts of analysts, a rate of Bitcoin, other cryptocurrencies and quantity of algorithms of hashing of blocks influence the amount of profit. The market of "digital gold" differs in instability — quite often the forecast of the course Bitcoin or other coin is incorrect, many miners lose several hundreds of dollars in a day.

Complication of hashing of blocks leads to the increasing costs of the equipment — investments pay off for several years. The beginning miners are recommended to execute assessment of relevance and profitability of a farm before work with cryptocurrency.[2]

The history of cryptocurrency mining dates back to 2009 when Satoshi Nakamoto founded Bitcoin. Initially developed so that anyone could participate in verifying Bitcoin transactions with their CPUs, the process of mining Bitcoins took an unexpected turn.

Less than three years after Bitcoin was launched, it became apparent that it was no longer possible to mine Bitcoins with CPUs and make profits. GPU mining was introduced and later replaced by ASIC mining.

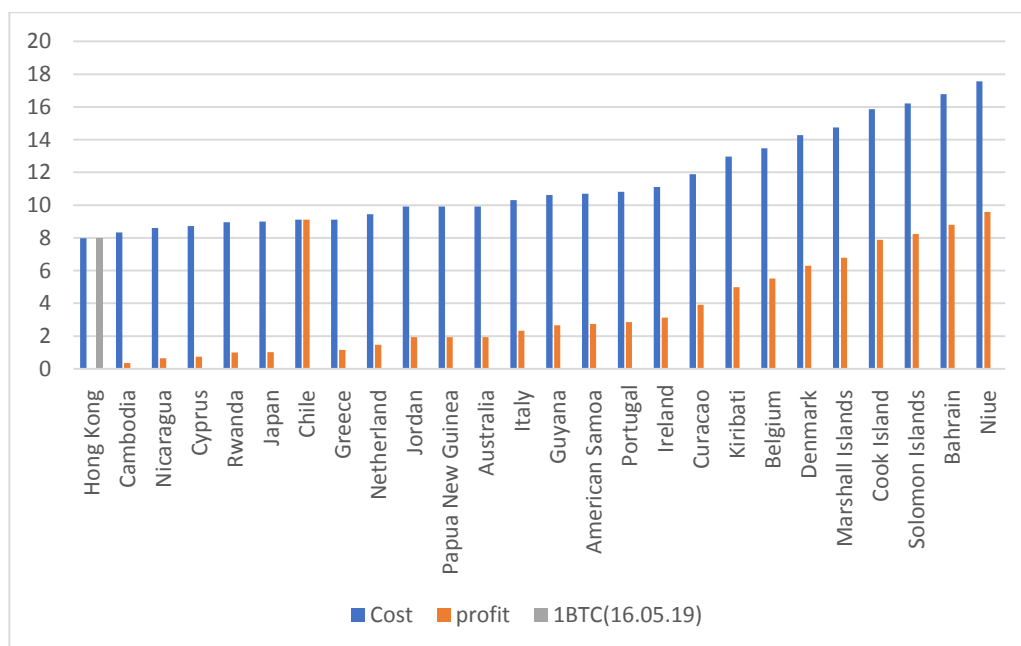
With the golden age of Bitcoin mining fading away, experts are now concentrating on its implications and what becomes the future of mining cryptocurrencies in general.

Cryptocurrencies like Bitcoin use a Proof of Work mining algorithm that asks for capital-intensive, energy consuming hardware. Initially, Bitcoin mining was cheap and a lot less energy consuming. However, the burden of mining cryptocurrencies has become unbearable.[3]

Environment-friendly cryptocurrency networks have been ditching the PoW algorithm for an energy efficient Proof of Stake Algorithm. Ethereum is already set out to ditch PoW for the PoS mining system.

As the energy-costly mining algorithm continues to be criticized, new networks won't be using it. This will likely change the path of mining Bitcoins. Cryptocurrency miners will no longer be required to purchase expensive hardware. The Proof of Stake algorithm uses a system where miners are picked randomly or based on a special system. There is also no block reward with the PoS system, but selected miners may be eligible to earning network fees.

Table 1 - The prices and costs of mining in the different countries



Mining farms are notorious for that amount of energy which they demand. And already for a long time the public is anxious with impact of production of cryptocurrencies on process of global warming. [4] Nevertheless, one of the main

arguments of supporters of cryptography was that mining creates additional opportunities for earnings. Unfortunately, news that miners sell the equipment at the scrap price do not confirm this argument.

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