Filecoin SP Academic Study Interview Questions

1. Q: What type of hardware do you use for your operations - sealing, storage, etc. (specific model, year, and for which part of your operations is it used)?

A: Added the quote of one rack of our hardware, please do not share anywhere else.

Hardware usage/utility is added to the titles.

2. Q: What is the power consumption and capacity of a rack in your system, if known (e.g., 30kW per 4.5 PB rack)?

A: Storage of 1 PiB of data uses about 700watts per hour.

One full rack of 25TiB daily sealing capacity consumes about 9kW per hour.

3. Q: How much time does sealing a sector (including all steps of the sealing task) take for you and whether it is 32/64GiB? If the different steps of the sealing process are performed on different machines, please also indicate which machine is used for what and how much time each step takes.

A: 32GiB

AP -->12:00
C1 --> 00:30
C2 --> 09:30
GET --> 06:00
PC1 --> 03:30:00
PC2 --> 28:00

4. Q: Do you rent out space in a co-location data centre? If yes, do they provide information about their power usage effectiveness (PUE)?

A：We run our own datacenter. Cooling is about 25% of our energy consumption.

5. Q：Do you use multiple minerIDs for your operations? If yes, what is the reasoning behind dividing your raw byte power and is it evenly distributed between minerIDs? Also, do you use multiple locations or are all your operations in one place?

A：We run 11 SP's, reasons being investors, funds, ownership and flexibility. Its not evenly distributed, they range from 1 PiB to 30 PiB. They are all in one place.

6. Q：Does your mining operation incorporate any additional non-IT processes, which consume energy, such as cooling?

A：Cooling, lighting, and storage of datasets off-chain.

7. Q：Do you also mine other cryptocurrencies, such as Ethereum, and if so, do you reuse the same hardware?

A：No we do not.

8. Q: What is your energy mix, and do you produce renewable energy onsite?

A: Fully renewable, 80%+ self-generated solar and 20% REC purchase from wind energy.