



Green Internet: Carbon Reduction FootPrint

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KISA Yeongcheol, Lim

※ This material is a personal opinion.

1. The scourge of climate change is already beginning.

Floods in Libya('23.9)



5,300 people died and 10,000 people were missing

Canada bushfires('23.6)



A forest fire in eastern Canada burned 4.3 million hectares. It is 40percent of Korea's area.

※ Source : AP News

2. The Internet also requires a lot of energy and is emitting CO²



- Watching streaming video for 30minutes releases 28~57g CO²

If you watch it for 10 hours on Netflix, it uses the same energy as charging your smartphone 145 times.



- Large data centers require more than 100MW of power

It is enough to power about 80,000 homes in the US, but most data centers consume energy in a very wasteful way.

※ Source : namecheap.com/blog/whats-a-green-internet/

3. The green Internet is likely to be possible in both direct and indirect ways.

Greening Your Data Center



Renewable
energy electricity



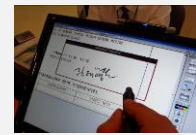
Nature Air-
Conditioning system

Simplify work(business) using the Internet

Paper Document Signature



Electronic Signature



Archiving and Retrieving paper documents



Archiving and Retrieving electronic documents



Postal notice



Mobile electronic notice



4. The Case of Korea

A representative example is 'NAVER', an IT service company in Korea.

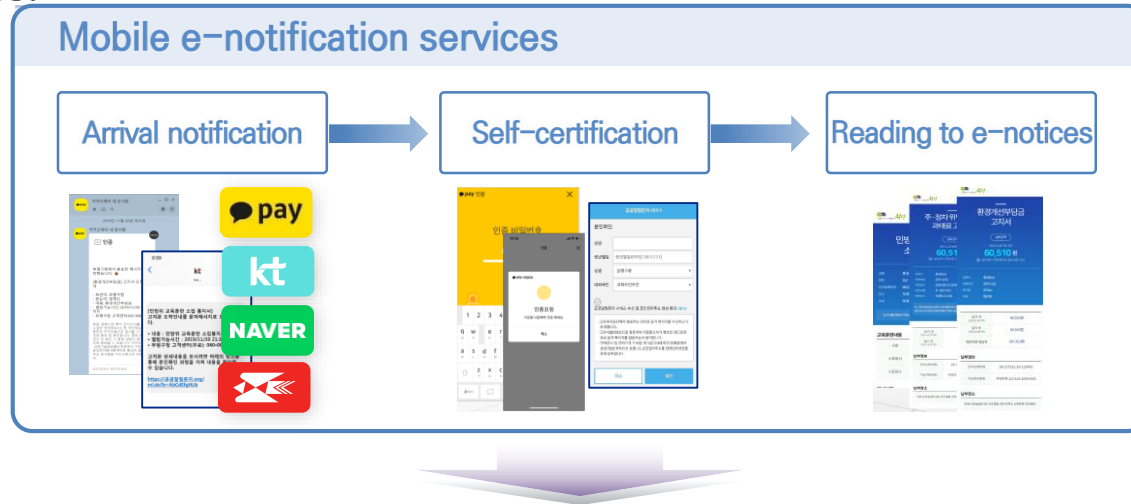


- Green Data Center Completed in 2013
- Utilizing solar and solar power generation for exterior landscape lighting and greenhouse heating
- Utilization of natural cooling system through outside air
- Application of eco-friendly cooling technology to reduce the temperature of the server using cold air and groundwater
- Automatically detect and control temperature with 30,000 sensors in the building to maximize energy efficiency
- It was able to reduce carbon dioxide emissions by about 95 tons, and reduce greenhouse gas emissions by about 20,000 tons per year.

※ Source : biz.chosun.com/industry/company/2023/03/17/LSFFBD7B4RGSVO344IZQ3FCGZM/

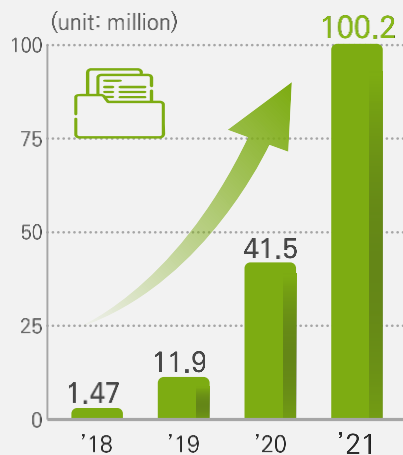
5. The Case of KISA

KISA is promoting various paperless projects, and typically introduces mobile electronic notification services.



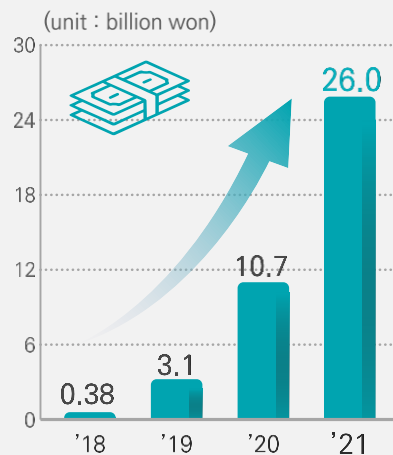
e-notice distribution quantity

155million case



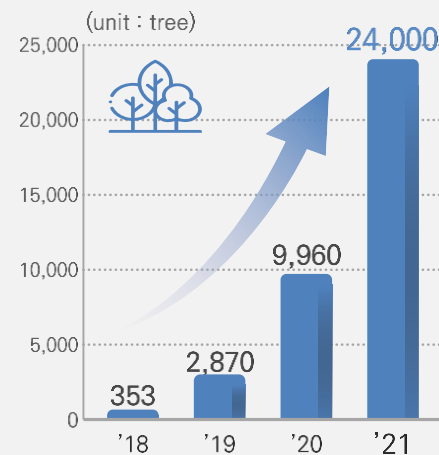
Reduce mailing costs

40.2billion won



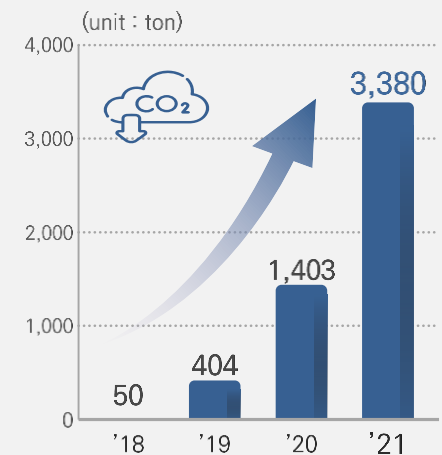
Tree protection

37,183 tree



Carbon reduction

5,237 ton



6. Action to Reduce Carbon Idea

Consider ESG Compliance with Domain Registration

- S.Korea aims to cut national greenhouse gas emissions by 40% in '30 compared to '18
 - The Framework Act on Carbon Neutrality is in effect in 2023, and the Basic Plan for Carbon Neutrality and Green Growth is announced in April '23
 - ESG management is spreading in the private sector
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- For domain addresses that provide IT services larger than a certain size, ESG progress and plans are required when applying for registration/renewal