



### **Executive Summary**

### **Introduction** Understanding of ESG

- Environmental, Social and Governance
- Social conscious investors to use screen potential investments
- Comprehensive analysis
- ESG Value Chain

### Company SINNET

- Founded in 1999
- Professional data center and cloud computing service provider
- Main business: IDC and cloud computing service

### **Industry** IDC Industry

- Gaining greater market attention
- Two parts of Chinese IDC market
- Typical enterprises
- SINNET in IDC industry: on the way of energy conservation

### **E-Iluminator's ESG Solution**

### 1 Site Selection

- *Ulanqab*: best
- Great Environment
- Locates close to Beijing
- Low cost of energy...

## Social Benefits

- Ease energy shortage problem
- Local employment
- Invest in green industries

### 3 Design

- LEED standard
- Large prefabricated flat floor
- Durable, recyclable materials...

## 4 Incentive Mechanism

- TUP & RSU for short-term behaviors
- Profit-sharing & retirement plans for long-term behaviors

# Female Leadership

 More targeted programs for women' healthy career development & potential discovery

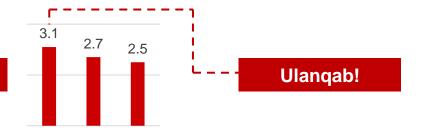
# 6 Risk Management

- Anti-corruption training & E-platform
- Bringing in & Going on
- Security technology

### Feasibility Analysis

Necessity of Investment
Technical Feasibility
Financial Feasibility
Economic Feasibility
Social Feasibility
Risk Factors and Counter-Measures

**Impact Multiple of Money** 





### ESG stands for : Environmental - Social - Governance

E: Environmental

G: Governance

#### **Impact on the Environment**

- **Environment Protection Policies**
- Climate Change Vulnerability
- Usage of Natural Resources
- Pollution and Waste
- Employee's Awareness of Environment
- S: Social

### Impact on the Society

- Relationship with the Community
- Labor Management
- **Human Capital Development**
- Employee's Health Condition
- Responsible Investment









Gender Equality in Workplace

Corporate Governance







**Impact on the Society** 

ESG investment is driven from top to bottom. Companies will improve its ESG rating in order to respond to investors' expectations.

1 ESG Rating

#### **Motivation**

The motivation for companies to improve ESG comes from the positive incentives that high ESG ratings bring to them.



2 ESG Value Chain

#### **How ESG Works?**

ESG investment is driven from top to bottom.

**Upstream investors** 



Midstream financial intermediaries



Downstream investees





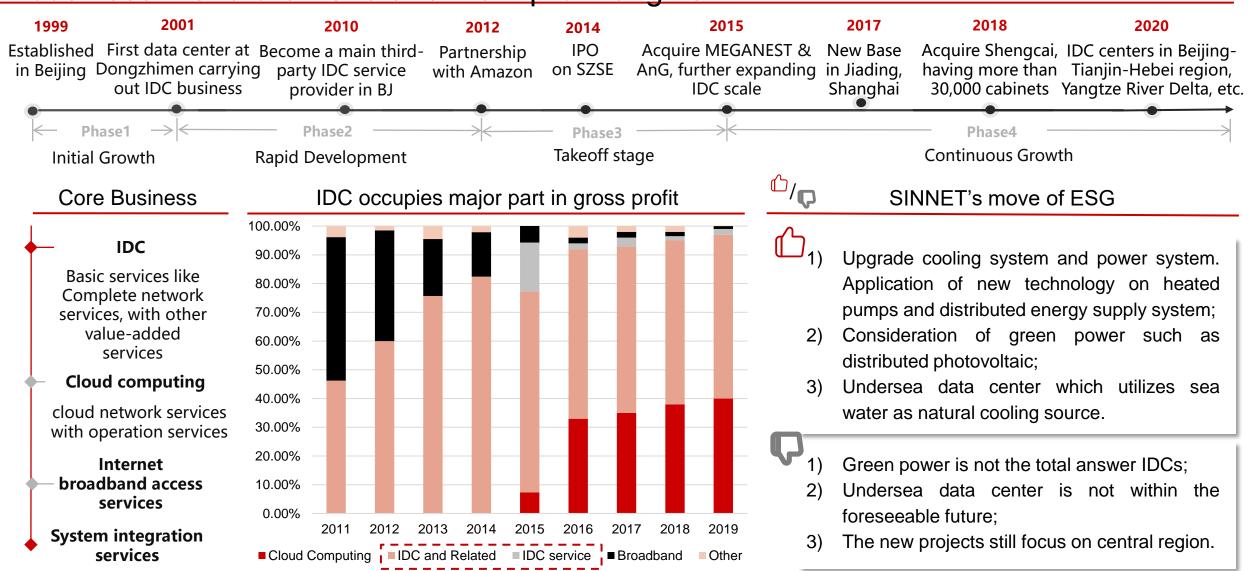
 Investors / institutional investors recognize and except the value of ESG

 The recognition of investors encourages financial agencies to produce more ESG products

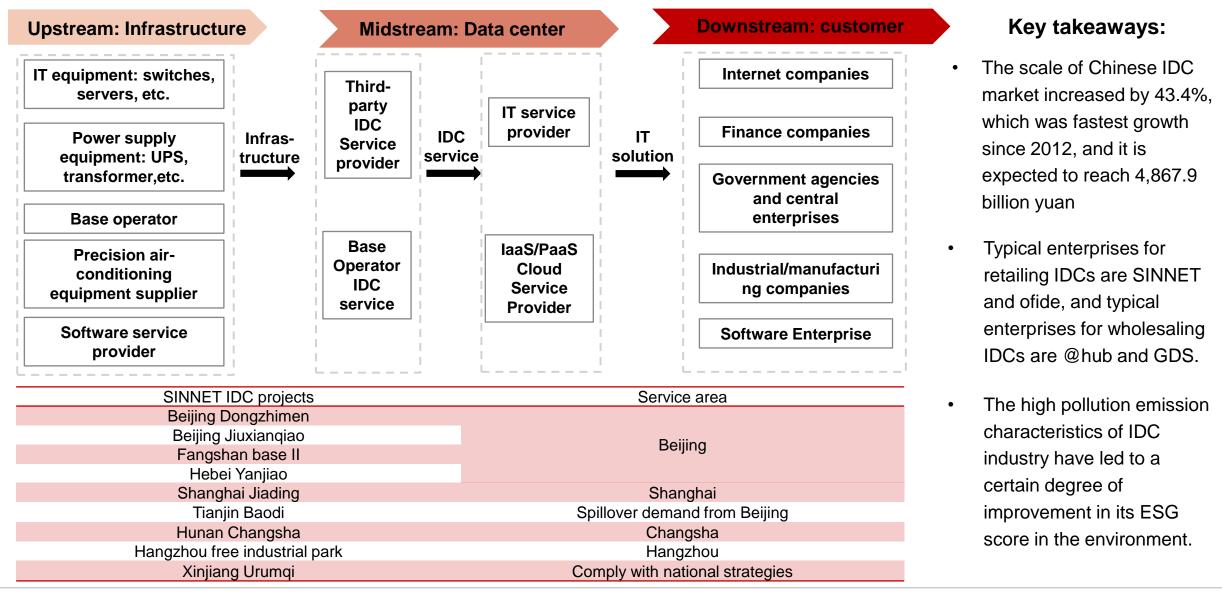
 In order to respond to investors' expectations, companies will improve its ESG rating, looking forward to a higher company value and a smoother way when developing.



SINNET's main business focuses on IDC and cloud computing services, with IDC business the future trend and main profit engine.



# SINNET, located in the midstream of the IDC industry, is a leading third-party IDC player, while still have room for ESG improvement due to industry characteristic.





# ESG Solutions: Site Selection and Design for New Green IDC and Governance Improvement

### **Strategy for SINNET's ESG Development**



### **Site Selection**

- Choose Ulanqab:
- Build the New IDC with 2000 cabinets
- Powered by Wind:
- Utilize electricity generated by wind
- Conduct Air Cooling Economization



### **Green Design**

- Follow Leadership in Energy and Environmental Design :
- Employ prefabricated flat floor structure
- Use Eco building materials
- Improve energy usage efficiency

3

### **Governance Improvement**

- <u>Multi-functional stock incentives</u> and long- short- incentives
- <u>Career-centered programs for</u> <u>female leadership</u>
- <u>Awareness straining and learn</u> from research products



### **Empower the New Green IDC**



### **Environment**

- Reduce carbon emissions
- Increase the regional utilization rate of the green power generated by wind

### Society

- Promote local employment and raise local tax revenue
- Boost local green economy growth

#### Governance

- Improve the governance structure of company
- Ensure the long-term development stability and vitality

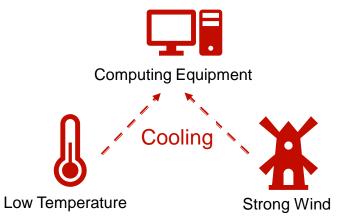
### 1

### ESG Solutions: Ulanqab is the best site for building a new green IDC

1 Local Environment

### Few Natural Disasters Cooler Outdoor Environment

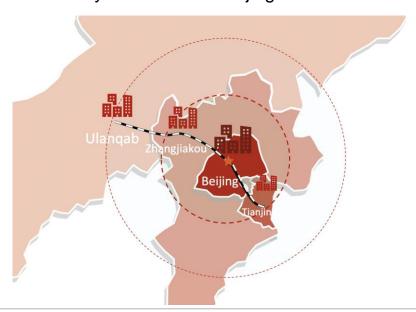
- Located on basalt layer, stable geologic structure
  - Risks like seismic vulnerability and extreme weather are excluded
- Constant wind and low temperature
  - Temperature between 0 ~ 14
     C all year around
  - Options for outdoor air cooling economization



2 Distance to Market

## Location in the One-hour Economic Circle of Beijing

- Only **100 minutes** from Ulanqab to Beijing by high-speed railway
  - Beijing is one of the areas in China with the greatest commercial demands for computing power.
- Market from Internet companies and other industry customers in Beijing



3 Industry Ecosystem

### **Developed IT "Ecosystem"**

- Developed and completed IDC industry agglomeration in Ulanqab
  - Peak performers in Internet







Hardware Powerhouse





Critical data center support









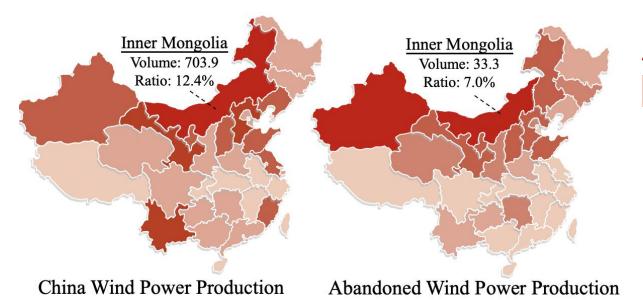
### 1

### ESG Solutions: Ulanqab is the best site for building a new green IDC

4 Cost of Green Energy

#### Low Cost of Energy, Rich Electricity from Wind Power

- Most competitive energy rate at 0.26 yuan per kilo watt, the nations lowest power price
- West Inner Mongolia, where Ulanqab locates, has the largest wind power production volume
- At the same time, it has the second largest volume of abandoned wind power production.



5 Network

### **Specialized Fiber Network Cable**

- Network connectivity determines the latency and transaction time
- "Information Highway" policy has been launched to smooth the connectivity
  - A point-to-point 144-core specialized optical fiber cable from Ulanqab to Beijing has been built
  - Network delay is less than 5 milliseconds

6 Tax and Land Incentives

#### **Favorable Allowance and Exemption Policy**

- Local authorities has laid down attracting tax allowance and fee exemption policy for IDC construction projects:
  - Financial support with reference to 40% of the corporate paid tax
  - Exemption of the land use tax of construction land
  - Compensation of **7%** fixed asset investment of the project as soon as the project has been completed and checked



### Design for the New Green IDC Could Be Implemented under LEED

### **Introduction of LEED**

Leadership in Energy and Environmental Design (LEED) is a commonly used standard for green construction of IDC



**LEED v4.0 (2013):** introduced specific standards for different types of construction, including "Data centers"



4 different LEED certification levels:





Widely accepted by industry leaders: Microsoft, Facebook, Google, Apple, Digital Realty Trust, Global Switch, Vmware









**Tencent** 

#### Two Benefits for SINNET:

- Detailed and tested standards: As a widely accepted standard for years, LEED will greatly helps SINNET build its green IDC
- Improve social influence: Although it's already an old story in China, initiatively building new IDCs under LEED standard can greatly helps SINNET improve its influence on environment related issues and build an environmental friendly brand image

### **Potential solutions**



Prefabricated flat floor structure

- No construction pillars
- Unique thermal sandwich structure
- Optimize the airflow organization



**Eco building materials** 

- E.g. Materials with good heat insulation are supposed to be selected for exterior walls
- Rock-wool sandwich panel, color steel laminboard.....



Improve energy usage efficiency

- E.g. Solar panels on roof
- Already implemented by many data centers, including Baidu and Delta **Electronics**

Social Benefits Include Energy Saving, Boost Local Green Industries, Economy and Overall Employment

### 1 The conflict of IDC industry in energy issues

### **Energy Resource**

- <u>Far from mega cities</u> (especially green energy)
- Lot of green energy is wasted (e.g. 17% of wind power generated in Zhangjiakou is wasted every year)



#### **IDC** Location

- <u>Near or in mega cities</u>, especially Beijing and Shanghai, in which <u>electricity is short of supply and expensive</u>
- Require a lot of energy (e.g. 2000 units of servers requires 7280kW)

### Invest in local green industries

### **Wind Power Industry**

 Inner Mongolia ranks 1<sup>st</sup> in China in the amount of wind power produced per year

1 Inner Mongolia **787** 2 Xinjiang 468 Billion kW\*h (2021)



### **Unique Agricultural Resource**

- Some well known agricultural brands
- Experiment field for green agriculture techniques







### 3 Promote local employment and economy growth

#### **IDC**

Direct huge profit per year

- Technicians
- Operating engineers
- Commercial attache



#### Related

Indirect impact

- Electricity
- Property
- High tech









Boost employment Attract talents



Promote economy Diversify industries

### "East-to-West data transmission" project

- Initiated in 2021 by National Development and Reform Commission
- Promote data centers to locate in less developed regions, including Guizhou, Inner Mongolia, Gansu and Ningxia Province

### 3

### 1)Design multi-functional stock incentives and long- short- incentives

1 Principle-agent Theory

Incentive mechanism aligns 2 pursuits.

Principle-agent Theory:

Maximization of **individual utility** 



Maximization of corporate interests

2 SINNET Incentive Mechanism

SINNET's incentive mechanism is naïve.

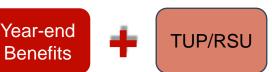


- Low risk
- Basic insurance
- Year-end Benefits
- Incentive function
- Prone to induce short-term behavior
- Stock Equity
- Motivate executives for long-term behavior

3 Huawei and Alibaba's Incentive Mechanism

#### Better designs in stock equity incentive section.

- TUP for Huawei:
  - <u>Time unit plan</u> Motivate long-term struggle Mobilize corporate cycle
- RSU for Alibaba:
  - Restricted stock unit Motivate long-term struggle Mobilize corporate cycle



4 Nike's Incentive Mechanism

Salary

### Comprehensive design of incentive mechanism from a less related industry.

**Diversified** and **mature** composition of incentive mechanism

Basic

Wage

- Long-term and thorough care for employees
- Motivating both long-term and short-term behaviors

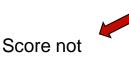


3)Promote systematic and career-centered programs for female leadership 3)Conduct awareness training and learn from research products for risk management

1 Female Leadership

Model from Chindata for targeted plans.

Current situation of SINNET:



low

Proportion of women in core management is not low



 Lack of systematic and targeted plan

- Formalistic

- Parallel Comparison with Chindata:
  - High proportion of women in the management
  - Enhance gender equality and healthy development of women's occupations through "Better U" plan
  - Series of other leadership projects:
    - Support the career development of women in the future
    - Discover more elite women



2 Risk Management

Lack of attention on risk from SINNET.

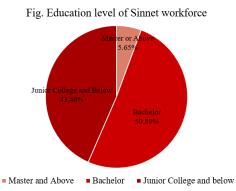
Risk in discussion:

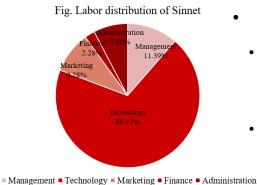
Intentional or unintentional corruption of employees



Leakage of information and data

- Current situation of SINNET:
  - Education level of the workforce + Work distribution
  - Relevant post-employment training is vital and necessary
  - Mostly focused on vocational skills and not highlight training for safety awareness or professional ethics





Risk Management (Contd.)

Model from industry and research.

- GDS's solution:
  - 100% of employees receive training on compliance, anti-corruption, and network security
  - Maintain compliance and anti-corruption reviews every 2 years
- Chindata's solution:
  - 100% completion rate of compliance training for NASDAQ-listed companies on the Foreign Corrupt Practices Act, the insider trading policy, and the Sarbanes-Oxley Act
  - 100% accessibility to related provisions and materials through E-platform
- The Edge of research
  - Separation into inspection areas, maintenance areas, and other different partitions + Authentication after barrierfree inspection
  - "Bringing in" and "Going out" on staff engaged IDC security management



### Feasibility Analysis Investing

**Technical** 

Financial

Economic

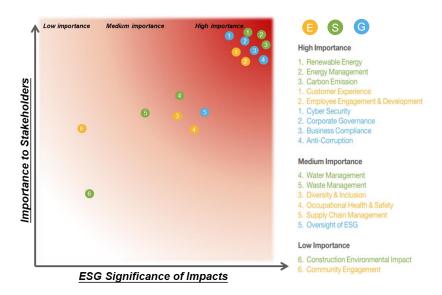
Social

Risk & Mitigation

Necessity of Investment

#### It is a must for SINNET to invest in ESG.

- Market position: leader of third-party IDC
- Market trend: replacement of traditional high energy consumption
- **Corporate development**: sustainable company growth
- **Industry rivals** such as Chinadata Group and GDS have great ESG performance.



### Technical Feasibility

#### ESG solution is technically viable.

- **Restriction from first-tier cities:** the PUE standard for new IDC centers is less than
- Green IDC in Ulangab: able to meet the construction standard with PUE under 1.2
- **Security guarantee**: partition management and relative access control systems

#### Undersea Technical Data Center Breakthrough Environmental Restriction Site Natural Capital <u>Advantage</u>

### Financial Feasibility

#### Estimated payback period: 15 years

### **Key assumptions:**

unit income of per cabinet is 75000 yuan; use rate of cabinet reaches 80%; access to 10kV utility power; 2000 5kW cabinets put into production; PUE of 1.2

#### **Key evaluation:**

operating power: 2000 units \*5kW/unit \* 1.2 \* 60% = 7200kW: basic capacity of UPS should be at least 12000 kVA (E≥1.2P) and 20000kVA UPS

power (12000kVA/60%) needed.

Area	File name	Issue date	Enacting unit	Summary				
Beijing	The implementation of Beijing Municipal Data Center Development Program(2021-2023)	2021.4.27	Beijing Municipal Bureau of Economic and Information Technology	Gradually close backward data centers whose average PUE beyond 2.0; Modified IDCs' PUE should not exceed 1.3.				
Shanghai	The data center construction in Shanghai city guide(2021 edition)	2021.4.8	Shanghai Municipal Commission of Economy and Informatization	PUE of newly built IDCs should not exceed 1.3.				
Guangdong	5G base stations in Guangdong Province and the overall layout of data center planning(2021-2025)	2020.6.30	Guangdong Provincial Department of Industry and Information Technology	Average PUE below 1.3 till 2022 and below 1.25 till 2025.				
Nationwide	New data center development three- year action plan(2021-2023)	2021.7.4	Ministry of Industry and Information Technology	PUE of newly built IDCs should not exceed 1.35 till 2021 and 1.3 till 2023.				

### Feasibility Analysis Investing

Technical

Financial

Economic

Social

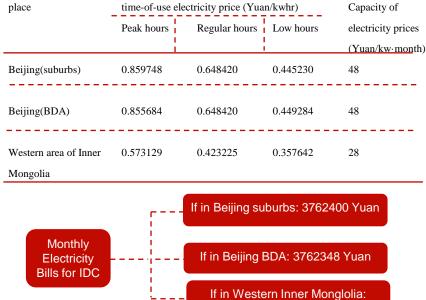
**Risk & Mitigation** 



### **Economic Feasibility**

#### Electricity seen as a quasi-public good.

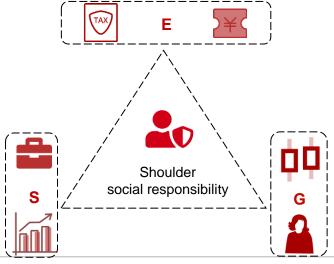
- The importance of electricity: key resource for IDC industry
- Cost of electricity differ greatly across China
- Smart location is where electricity is of lowest cost



### Social Feasibility

#### ESG solution is society-friendly.

- Preferential policies for big data industry: subsidies, provision of infrastructure and financial rewards:
- **Economy vitalization in Ulangab:** employment creation and industrial clusters are conducive to local economy;
- Social identification: Corporate governance enhancement stressing incentive mechanism and female leadership caters to society consensus.



### Risk & Mitigation

Certain risks and counter-measures made.

#### Risks

- **Demand weaker than expected**: Ulangab is already home to lots of data centers, leading to supply over demand;
- Cost more than estimated: investment in a new IDC can be of huge cost;
- **Actual ESG performance worse than** presumed: it will be of little use for the company to build an IDC faraway if ESG performance is not prominently improved.

### Mitigations

- On demand side: Ulangab IDC will mainly focus on demand spillover from Beijing;
- On cost side: positive financing channels shall be taken (e.g. REITs).
- On ESG performance side: high emphasis should be placed on environmental management and company's all-round development.

2424262 Yuan

### IMM (Impact Multiple of Money)

Assess Relevance and Scale

#### Relevance and Scale of a Product / Service / Project

- How many people will the product or service reach?
- How deep will its impact be?
- 2 Identify Outcomes

#### **Identify Target Social or Environmental Outcomes**

- Identify the desired social or environmental outcomes.
- Determine whether existing research verifies that they are achievable and measurable.

Identified Anchor Study

Salary

3 Estimate Economic Value

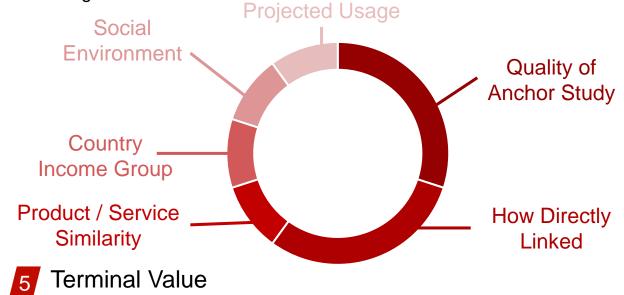
#### **Economic Value of the Identified Outcomes to Society**

- Find an "anchor study" that robustly translates those outcomes into economic terms.
- If a proper anchor study does not exist, find an expert in that field.

4 Adjust for Risks

### **Impact Realization Index**

 Use the impact realization index to assign values to six risk categories and total them.



#### **Estimate the Terminal Value**

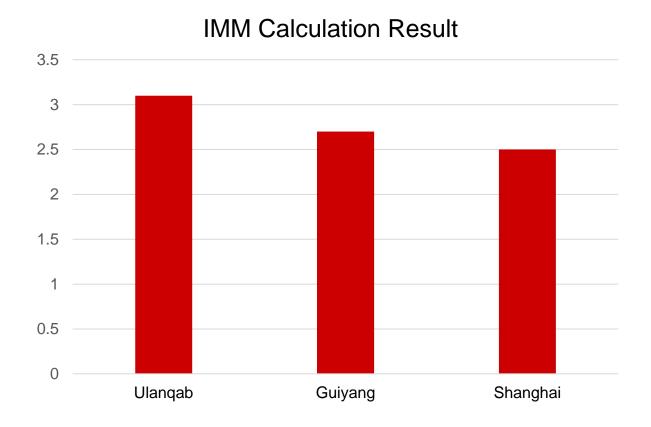
- Asses the probability that both output and social value will continue undiminished for five more years.
- Probability: High discount rate 5%; Low discount rate 25%.

### IMM (Impact Multiple of Money)

### 6 Calculate Social Return on Every Dollar Spent

### **Impact Multiple of Money**

Calculate IMM based on estimated investment.





- Is the calculation result close to reality?
- How can we learn from the calculation result?

### Question 1 Calculation result

- Our calculation result can roughly show the comparison between different solutions.
- The factors selected in our estimation is far less than that in real life – it may vary from the real value; hard to estimate!

### Question 2 Learn from it!

- Our goal is to use the IMM to show that the solution (Ulanqab) is best rather than calculate the real value.
- Anyway, those factors is roughly enough to show the comparison between different solutions. We use it to compare.



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### Appendix 1-2: Estimated Gross Profit Margin for a Single Cabinet in the New IDC

#### **Major Assumptions:** Number of PUE Voltage Power per cabinet Load ratio cabinets 1.2 2000 10kV 60% 5kW Thus, power per day needed: $2000 \times 1.2 \times 5 \text{kW} \times 60\% = 7,200 \text{kW}$ Electricity power cost per month: Yuan/kw-h Yuan/kw-month hours 0.26(green electricity price used) 28 peak regular 0.423225 low 9 0.357642 Thus, electricity power per month equals $7200 \times (28 + 30 \times 8.91) = 2127,000$ yuan, which is approximately 1.27('000) for one cabinet per year. UPS (Uninterruptible power supply) Number of IDC Total power UPS Load ratio Redundancy consumption capacity standards rooms 1000kW 12000kW 60% 50 2N (5kWx2000units) (E≥1.2x10 Adjusted (2000/40)2 units of 400kW 000kW) UPS=20,000kW UPS needed Thus, cost of UPS = 50rooms x 2units x 212100 = 21210,000Yuan, which is approximately 1.06('000) yuan per year for a single cabinet.

Gross profit margin for a single cabinet is 54%

A Single Cabinet in SINNET's new IDC										
Revenue per cabinet per year ('000)		7								
Cost per cabinet per year ('000)										
− → Electricity cost	1.27									
 → UPS	1.06									
Depreciation	0.7									
Operation Cost	0.2									
 		3.24								
Gross Profit per year('000)		3.76								
Gross Profit Margin		54%								
I .										

### Appendix 1-3: Estimated Future Cash Flows for the New IDC

#### We estimate that the new IDC will have a positive NPV within 15 years, which is an acceptable number due to its high initial investment. 2022 2034 2035 2036 2037 2038 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2039 2040 **Financial Forecast** Price 7.20 7.42 7.64 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 Cabinet 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 number 0 0 0 0 0.3 0.6 8.0 0.8 8.0 8.0 8.0 8.0 8.0 0.8 0.8 0.8 0.8 0.8 Operation 8.0 rate 0.55 0.55 0.55 0.55 0.55 0.55 0.55 0.55 0.55 0.55 0.55 0.55 0.55 0.55 0.55 0.55 0.55 **GPM** 0.55 0.55 Timeline Invest Construct Construct Construct Partly Done Invest Done Done Done operate Gross 0 0 0 0 2640 5280 7040 7040 7040 7040 7040 7040 7040 7040 7040 7040 7040 7040 7040 profit 5632 5632 0 2112 4224 5632 5632 5632 5632 5632 5632 5632 5632 5632 0 0 0 5632 5632

Investment decision										i i									
Invest	40,000														i I				
Cash flow	0	0	0	0	2640	5280	7040	7040	7040	7040	7040	7040	7040	7040	7040	7040	7040	7040	7040
Spot rate	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
PV	0	0	0	0	2068.509	3940.0 17	5003.1 97	4764.9 49	4538.0 47	4321.9 49	4116.14 2	3920.1 35	3733.4 62	3555.67 8	3386.36	3225.10 5	3071.52 9	2925.26 5	2785. 967
NPV	-40000	-40000	-40000	-40000	-37932	-39992	-28988	-24223	-19685	-15363	-11247	-7327	-3594	-38	3348	6574	9645	12570	15356
																			27