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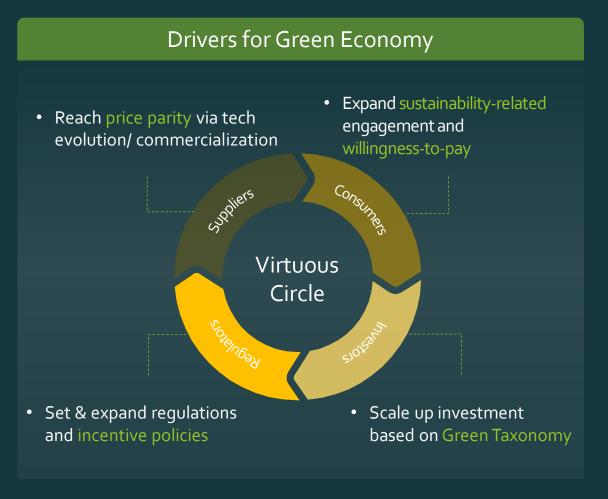
**Introduction** | How We View

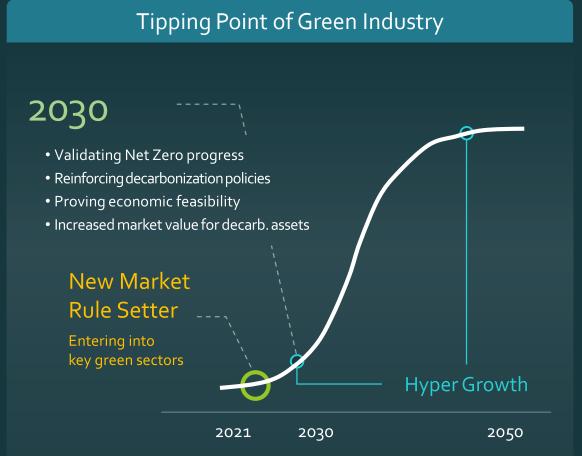
# Combating climate change creates New Opportunities to capture



### **Economic Growth 'Opportunities'** Create new economic values NPV<sup>1)</sup> \$43 **Trillion** New Industry Asset Value **Employment** Growth Reduce cost of responding to climate crisis NPV<sup>1)</sup> **\$178** Trillion Health Issue Environment Decreased Productivity Recovery

# Leading Green Industry with Exponential Growth potential





# Value investor in decarbonization: Prevailing Strongholds

SK Inc. Green Investment Center

Vision

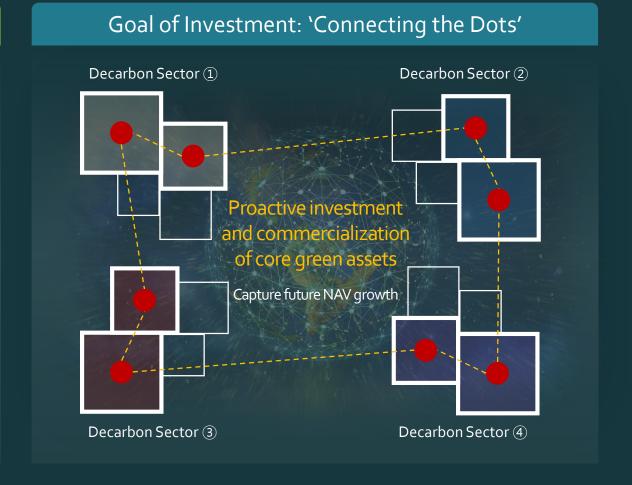
Game Changer

in achieving global Net Zero

Mission

Decarbonizing Enabler

in energy and industry



### Strategic Prioritization across the vast green universe

Prerequisite condition of SK's green investment

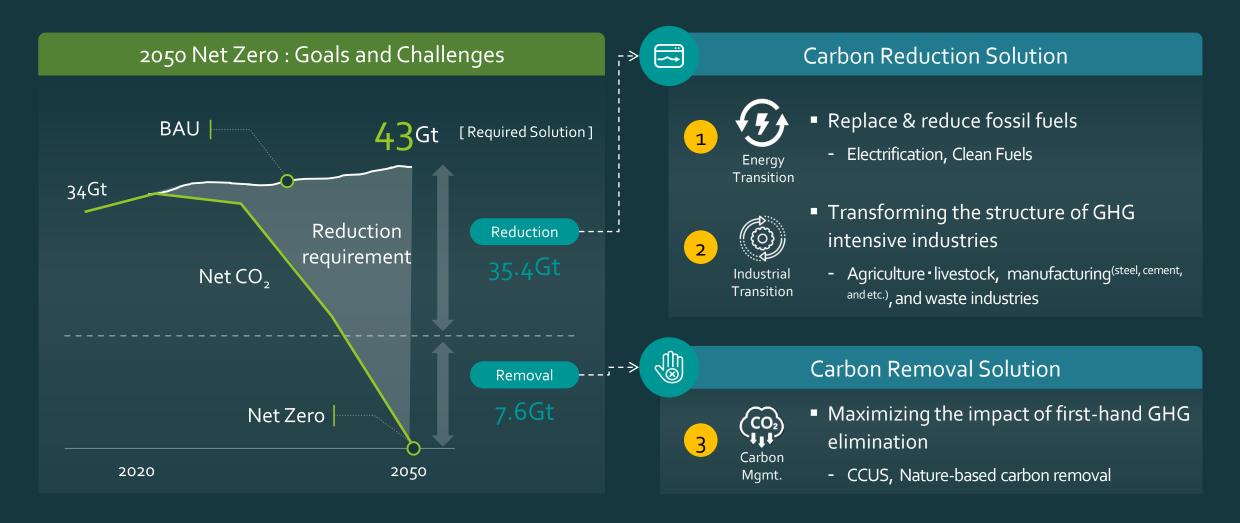
Consideration 2

Carbon Reduction Impact

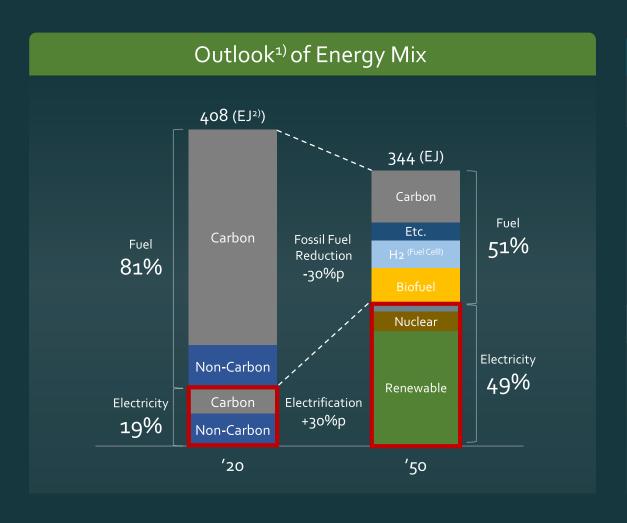
Upside Potential

Market Leadership

### Decarbonization Solution: 'Reduction' & 'Removal'



### Decarbonizing energy space through Electrification & Clean Fuels



#### **Investment Focus** (a) Electrification: Building carbonless power generation & consumption base Increase carbon-free power by replacing fossil fuels ′30. TAM<sup>4)</sup> Clean - Renewable energy, SMR \$650B Electrification Energy Solution<sup>\*</sup> \* Home, Grid, Mobility **(b)** Clean Fuels: Securing core tech. and business to replace fossil fuels Expand eco-friendly, lowcarbon alternative fuels ′30. TAM<sup>5)</sup> - Hydrogen - Ammonia / Biofuel \$1,400B Fossil Fuel Alternative fuels - Fossil fuel w/CCS w/CCS (Hydrogen, Biofuel, etc.)

### **Energy Transition** | Strategy

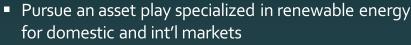
# Achieving NAV \$36.2B by 2030 through investing energy transition

#### **Implementation**

(a) Electrification: Secure base for carbon—free generation, efficient consumption









Energy Solution  Promote carbon-free nuclear business with advanced SMR technologies

Build Energy Solution Platform for home, grid, and mobility (EV charging)

**(b)** Clean Fuels: Secure core tech. and business to replace the existing fossil fuels



Alternative fuel (Hydrogen, Biofuel)

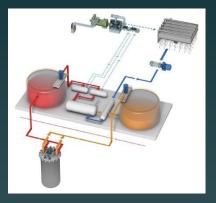
- Secure key technologies in carbon-free fuels (Hydrogen · Ammonia, Biofuel)
- Integrate the full value-chain including production, distribution, and demand



# Developing Carbonless Energy based on advanced SMR technologies

### Technologies & Products

Natrium<sup>™</sup> Reactor System



- 345MWe sodium fast reactor
- Integrated Energy Storage
- Molten salt technology
- Boost output to 500MWe of power for +5.5hrs
- R&D with GE-Hitachi





- Location: Kemmerer, Wyoming
- Estimated COD: 2028
- The U.S. DOE<sup>1)</sup> authorized a grant of up to \$2B through ARDP<sup>2)</sup>
- To be operated by PacifiCorp (\$1B investment)

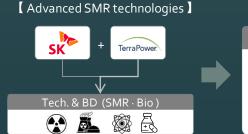
# Progress & Business Plan Entering SMP-based power generation

Entering SMR-based power generation market and expand its value chain in Korea and the U.S.



- Signed MOU for collaboration with TerraPower ('22. 5)
  - Jointly Develop 'the next-generational technologies' for SMR
- Invested \$250M to become the 2<sup>nd</sup> largest shareholder (w/ SKI)
- Expand the value chain centering on centralized grid and large-scale consumer

Business Plan



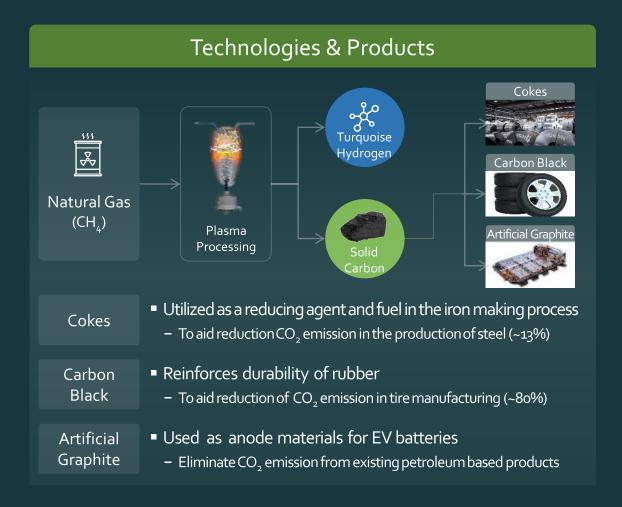
【 SMR Business Development 】

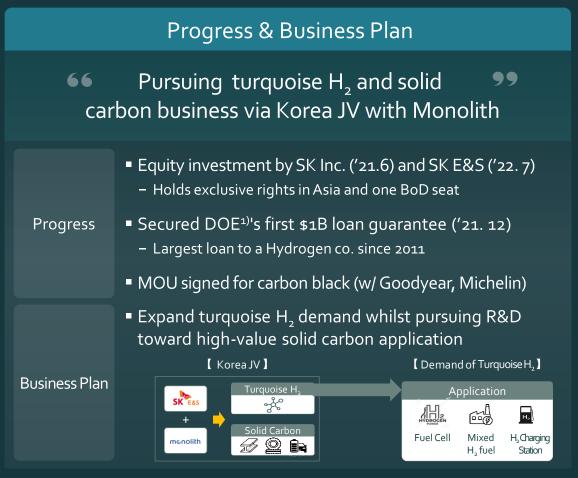
Application



### **Energy Transition** | Case: Monolith

### Creating Clean Turquoise H<sub>2</sub> and Solid Carbon business with Monolith





123~

′26~

**'**30~

# Comprehensive approach via Full Integration of the H<sub>2</sub> Value Chain

### Upstream: Hydrogen Production

Produce 3oK tons/yr liquefied hydrogen (Nov., '23)

Liquefied hydrogen plant

Address the demand of commercial vehicles



■ Produce Blue hydrogen (250K tons/yr) using LNG and CCUS infra



 Produce green hydrogen using renewable energy and water electrolysis technology<sup>\*\*</sup> in Korea and Vietnam



 Global partners' tech. such as Plug Power.

### Downstream: Hydrogen Consumption



 Deploy 40 HRS and expand demand from commercial vehicles



PJT Size<sup>E</sup> **\$2.5B** 



 Expand hydrogen fuel cells based power generation by CHPS program<sup>1)</sup>



PJT Size<sup>E</sup> **\$2B** 

#### SK's contribution to eco-friendly electricity in Korea



Blue hydroger (250K ton)



lean LNG (10M ton)

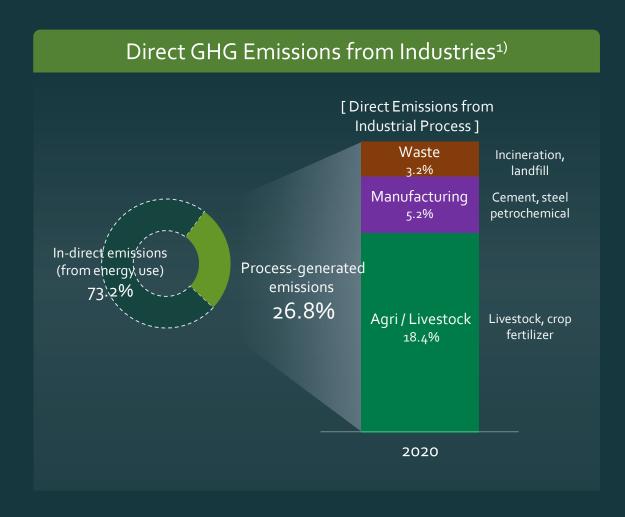


ell LNG po

 As of '26, supply 15% of Korea's total electricity demand as eco-friendly electricity

12

### Reduce Direct GHG Emission from major Industrial Process





# Achieving NAV \$18.2B by 2030 through investing industrial transition

#### Investment Strategy

a Sustainable Food: Structural change of agriculture industry



- Invest in core technologies and lead Asia expansion
- Sustainable Food
- Secure anchor businesses in Up · Midstream sectors
- **(b)** Green Industry: Reduction solution for GHG intensive industry



- Green Industry
- Secure technologies to reduce emission during manufacturing process in cement and steel industry
- Secure alternative resources and solutions for nonferrous metal and chemical industry
- © Circular Materials: Eco-friendly disposal and recycle of waste



- Commercialization of white bio products
- Secure recycling solution for plastic/EV battery



### **Industrial Transition** | @ Sustainable Food

# Build leading-edge assets portfolio and Expand Strategic Partnership

#### Sustainable Food Portfolio Overview

PBM: Invested in rising star in the PBM market of UK-EU



- Top-tier PBM player (2<sup>nd</sup> in brand awareness in U.K)
  - 26 product lines including ground meat, patty through peas

Fermentation: Invested in leading fermentation companies in the U.S.



- Animal-free milk from flora is the first of its kind
  - With gene recombination technology, microbes produce actual milk proteins



- A pioneer in novel protein industry
  - Food ingredients produced through fermentation /refinement of microorganisms (founded in Yellowstone national park)

CBM: Invested in the leader of cell-based seafood



- Development of alternative sushi-grade salmon
  - Built the world's first cell-cultured salmon pilot plant



1) Yellowstone national park 2) 2,000L size Bioreactor facility

# Secure key technologies to reduce carbon in Cement, Steel Industry

#### Solution for Cement Industry 66 Securing alternative technologies to solve the root cause of the cement industry [ Production Process of Cement, Concrete ] Quarry/Crush Calcination Limestone Process\* CO, 8% 2% 90% **Emission** X Process of producing cementitious material by heating limestone at high temperature (Chemical decomposition of limestone accounts for 60% of CO<sub>2</sub>) Increased need for carbon reduction in the cement industry ʹვοΤΑΜ<sup>ͻ)</sup> leads to the growth of low carbon cement market \$70B - 2030 Reduction target by 2030: 23% (IEA), Net Zero Declaration(GCCA<sup>2)</sup>)



### Pursue Preemptive Investments and collaborate on Demo Projects

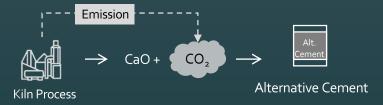
### Solutions for Cement industry: illustrative

Raw material Processing: Replace limestone with non-carbonate material



- Produce low carbon cement by using non-carbonate material
  - Carbonate(CO<sub>3</sub>) included in limestone is the primary source of process emission

#### Manufacturing process: Reuse emitted CO2 from kiln process



- Developing alt. cement using CO<sub>2</sub> emitted from kiln as raw material
  - Same physical properties as regular cement, less raw material and energy is required

### Solutions for Steel industry: illustrative

Raw material processing: Improving purity of raw material (iron ore)



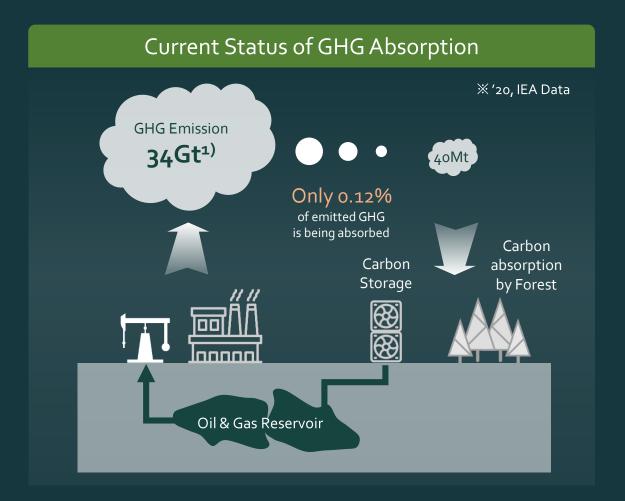
- Increase purity through low temperature electrochemical reaction
  - Reduce energy use in ironmaking process

Manufacturing Process: Developing alt. process for iron ore reduction

Fe2CO3 + <b>C</b> → Fe + O2						
	Traditional method	New Solution (illustrative)				
CO <sub>2</sub> emission	• 1.85 tCO2 / 1t steel production	• 1.6 tCO2 / 1t steel production				
	- Energy use 60%: process emission 40%	- Energy use 100% (4 MWh / 1t steel)				

- Extracting iron from iron ore using electrolysis
  - Cokes-free process leads to reduction in CO<sub>2</sub> emission
     Further reduction if renewable energy is used

# Maximize post-removal of involuntary CO<sub>2</sub> emissions on the planet



### Strategic Focus Areas

(a) CCUS: Technologies to capture, utilize, and sequestrate carbon



′30 TAM²) **\$115**B

- Carbon Capture, Transportation, Storage
   Solutions
- Technologies to convert carbon into resources
- **(b)** Nature Based Solution: Natural sources to capture carbon



- Forest-based carbon absorption projects (Afforestation, REDD+, etc.)
- Technologies to expand absorption effects of microorganism(soil) and algae(ocean)

# Achieve NAV \$12.4B by 2030 through investing Carbon Mgmt.

#### Investment Strategy

(a) CCUS: CO<sub>2</sub> capture, removal, and conversion technologies

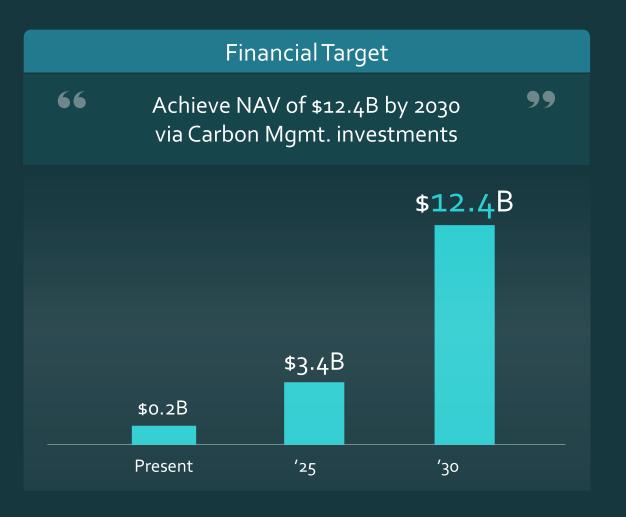


- Build integrated CaaS (CCUS-as-a-Service) BM
- Invest in leading-edge carbon technologies
  - DAC, Utilization (mineralization, biological/chemical methods)
- **b** Nature Based Solution: Forest, ocean to remove CO<sub>2</sub>



Nature Based Carbon Absorption

- Gain nature carbon credit via investments
  - Secure international forest developers and expand afforestation business
- Invest in bio-based carbon absorption technologies

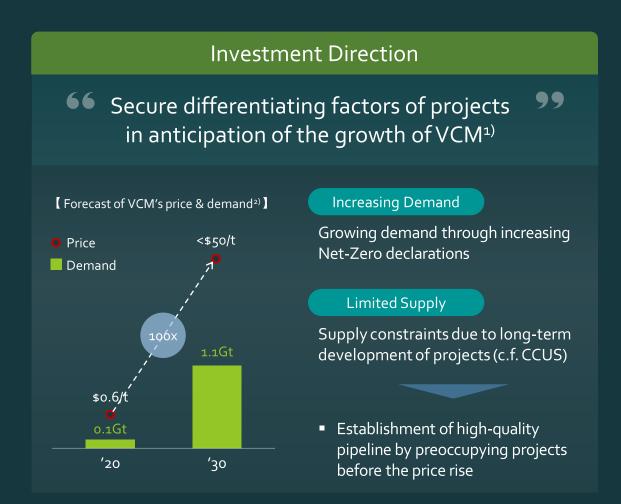


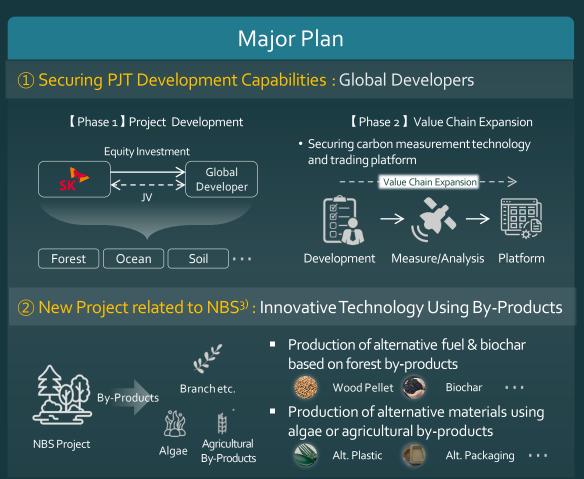
# Securing core technologies & infra to Integrate CCUS Value Chain

#### **CCUS Economics Outlook** 66 Economics to be enhanced via evolution of CCUS technologies and regulatory support CO<sub>2</sub> Price<sup>1)</sup> \$200/t (Carbon Credit Trading Price) Present \$100/t CCUS Cost<sup>2)</sup> \$20/t (Cost of capture, etc.) 10 <sup>20</sup> **'**30 **'**40 **'**50 • CCUS cost to fall due to continued development of capture tech, which accounts for the majority(~80%) of the total cost Strong policy support for carbon removal (ex. IRA – 45Q)

#### Key progress and plans 99 66 CaaS\* BM for industrial CO<sub>2</sub> emitters \* CCUS as a Service: One-stop service from carbon capture to storage/utilization Utilization [ Current Portfolio 1 RIVERS ON INFINIUM" Existing/new CO<sub>2</sub> pipelines and High value [Addition inv. tech. for target added tech. industry/DAC targets] Upstream integration Downstream integration Midstream \ Infra ■ Target long-tail carbon emitters w/ little access to CCUS infra Structure business model as integrated carbon management service

# Secure core assets that lead growth of Voluntary Carbon Credit





# Achieve NAV of \$66.7B in 2030 via investing 3 focus areas

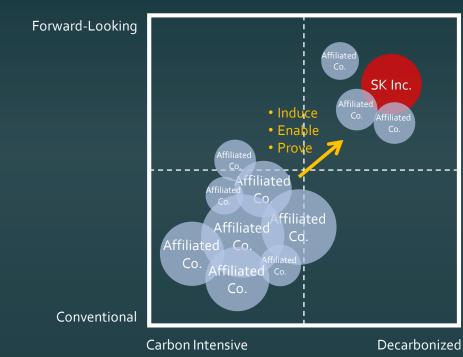
※ NAV Target		Present	′25 ———	<u> </u>
<i>(y)</i>	Electricfication <sup>1)</sup>	\$1.8B	\$8.2B	\$20.9B
Energy Transition	Clean Fuels	\$1.5B	\$10.9B	\$15.3B
	Sustainable Food	\$o.3B	\$1.6B	\$4.7B
Industrial	Green Industry	-	\$1.0B	\$4.0B
Transition	Circular Materials	\$1.0B	\$3.9B	\$9.5B
(CO <sub>2</sub> )	CCUS	\$0.2B	\$1.0B	\$6.4B
Carbon Mgmt.	Nature -Based Solution	-	\$2.4B	\$6.oB
		SK Inc.	Co-Investment	Subsidiaries



# SK Inc.: A Enabler & Partner for affiliates' green transformation

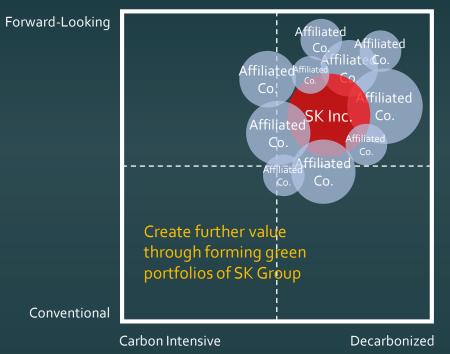
#### Short-term: Green Pathfinder

Leading exploration new space and co-investment with affiliates



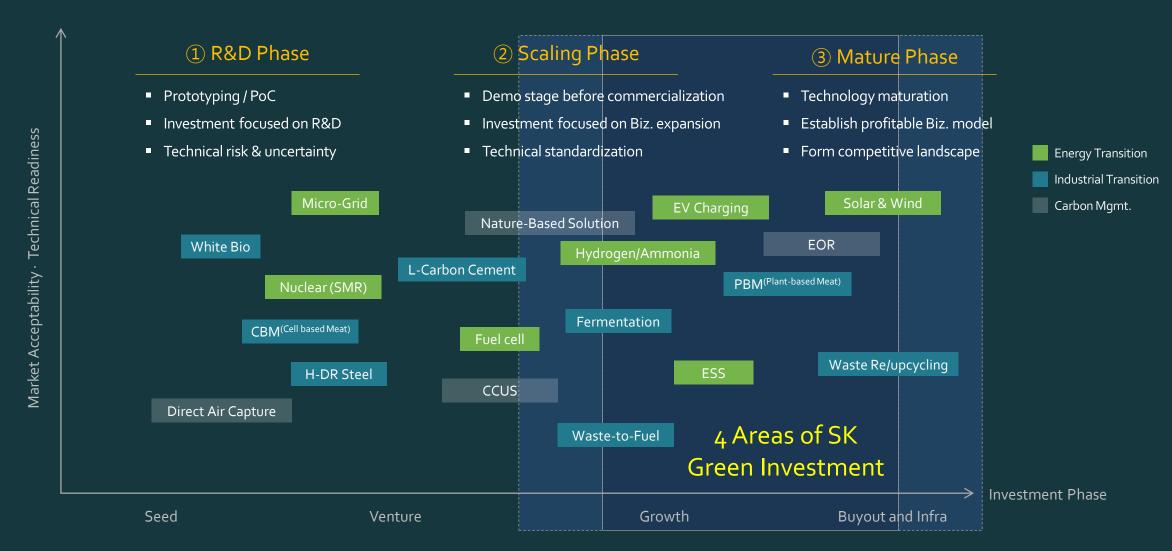
### Long-term: NAV Growth along with Affiliates

Turn SK Inc.'s investments into anchors and innovation platform of affiliates

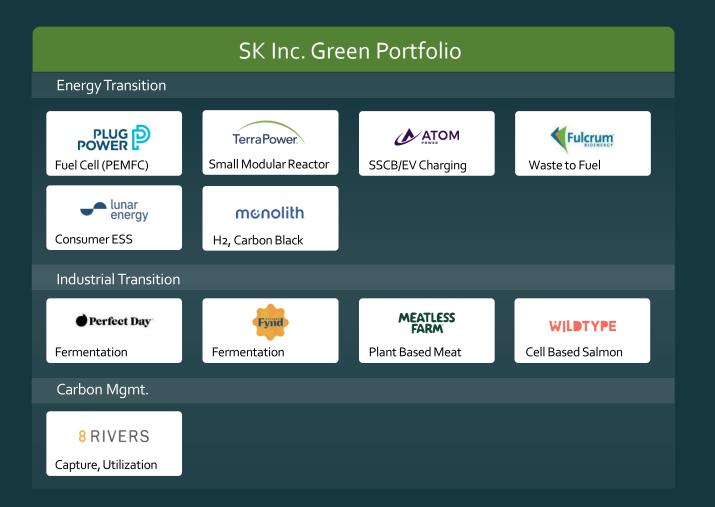


Strategy

# Sustain Strategic Balance between the embryos and the grown



### Building up vibrant portfolio in the Global Green Market





# Turning uncertainty from global volatility into Opportunity



# Robust Pipeline from SK's extensive global presence & partners



- 1 Encouraging portfolio's growth
- Support portfolio's commercialization via close engagement w/SK affiliates and each BD team

- Leveraging regional buy & sell sides
- Potential regional investors to participate in SK's portfolio and deal opportunities

- 3 Accessing new deal flow
- Establishing co-pipeline with global partners
- Cooperating with entrepreneurs from each industry

# Enhanced sector expertise by Global Advisory Networks

01	Energy Transition				02 Industrial Transition		03 Carbon Mgmt.	
Breakthrough Energy	I Breakthrough Energy Net Zero Tech∙BM	<b>W</b> ood Mackenzie	l Wood Mackenzie Renewable Energy, Energy Solution	gfi/ir	Good Food nstitute	I Good Food Institute Overall S/F Industry	SK	I SK Innovation Environment Tech
KEARNEY	I Kearney Hydrogen	Stanford ENERGY Corporate Affiliates	I SECA Hydrogen,	<b>₽</b> W	arner Ivisors	I Warner Advisors S/F Producing Tech·CMO	ENERGY	I A&G Energy CO <sub>2</sub> Capture/Utilization
EY PARTHENON	Carbon Neutral	▲ CAPSTONE  KETEP	I Capstone Energy Policy  I Korea Institute of Energy Hydrogen, Fyel Cell	L.I	E.K.	I L.E.K. Consulting Overall Industry	KIER	I Korea Institute of Energy Research CO₂ Capture
EY PARTHENON				Ę	<b>2</b> / <sub>°</sub>	I Black & Veatch Overall Industry	RICARDO	I Ricardo CO <sub>2</sub> Capture/Utilization
IHS Markit				KPI	MG.	I KPMG Overall Industry	SUMMIT AGRICULTURAL GROUP A Principled Approach.	I Summit Agricultural Group CO <sub>2</sub> Transportation/Storage

# Cooperation with Stanford Univ. and Breakthrough Energy

Stanford: 'SECA' Stanford Energy Corporate Affiliates

**Global Cooperation** 

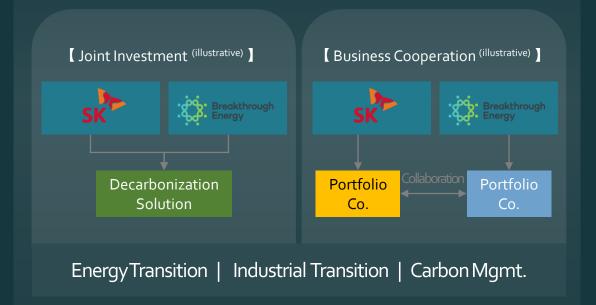
Share and discuss progress with U.S government, industry, academia and politics through participation in the 'Hydrogen initiative' of Stanford Precourt Program





#### Breakthrough Energy: Comprehensive Collaboration

Joint investment for global decarbonization assets, seeking strategic cooperation opportunities among existing portfolios that both have



# Solid Collaboration Network with various global capital partners

### Global 'Green' FI Network













#### Domestic FI Network





















**Brookfield** 



**ANCHOR** 











### Envisioning

Leader of investment and business development in global decarbonization universe

1%

8

2%

SK Group's contribution to global carbon reduction in '30: approx. 200 million tCO2

Proportion of NAV of SK green portfolio in global green market in '30

