

## DEEPTECH TO ACCELERATE THE ENERGY TRANSITION

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## **Setup Sydrogen as Joint Venture**

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Highlights	Backed by Strategic Shareholders	
Joint Venture (2021) between Nanofilm and Temasek to enable the transition to Hydrogen Economy	R NanoFilm Advancing technology solutions Differentiated technology	TEMASEK gy Global network
Integrated Solution provider with Deep Tech components	<ul> <li>&gt;80 patents &amp; trademarks</li> <li>3,000 employees</li> <li>4 production sites &amp; 3</li> </ul>	<ul> <li>Diverse portfolio across geographies and sectors</li> <li>900 employees across</li> </ul>
Leveraging Nanofilm's Core Technologies	R&D centers	offices in 9 countries
Centre of Excellence in Singapore for Product Development	65%	35%
R&D with Support from Leading Universities		
Powering hydrogen end-use applications for adoption	up to <b>S\$140mn</b> in initial investment	

Despite early adopters, there are hurdles to overcome for widespread adoption for <u>cost</u> and <u>performance</u>.

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## Deep Tech Solutions Provider Across Technology Stack

#### Components

Bipolar Plates, Catalyst, Membrane Electrode Assemblies



#### **Technology Foundation**

- Leveraging Nanofilm's established portfolio of Deep Tech solutions
- Serving Chinese Automotive market

#### Subsystems

Electrolysers, Methanol reformers, Fuel Cell Stacks, Solid state Storage



#### Modular Subsystems

- Providing flexibility to customers
- Meeting usage and energy storage requirements

#### **Integrated Solutions**

Low Power and High-Power Systems

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Complete turnkey solutions

- Accelerating end-user adoption

### Leveraging Deeptech and Vertical Integration

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## **System Product lines**

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## **Delivering a resilient energy infrastructure**

Piloting piped Hydrogen for distributed power generation



## Powering Electric vehicle charging stations

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Hydrogen production facility

- future receptacle for green  $H_2$  imports

2990

# Accelerating the Energy Transition, Together

**Partnerships for demonstration projects** 



Including carrier fuels: Methanol, Ammonia, other Organic carriers

# H<sub>2</sub> Production

Green H<sub>2</sub> producers



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## THANK YOU

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